AO
TRIBUNAL DE JUSTIÇA DO ESTADO DO AMAZONAS

PREGÃO ELETRÔNICO N.º 022/2026 – TJAM
Processo Administrativo nº 2025/000022080-00

Segue abaixo a proposta comercial da **ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA.**, pessoa jurídica de direito privado, estabelecida à Rua José Jorge Pereira, 47 – Lt. 22 – Qd. D - Bairro: Buraquinho, CEP: 42710-480, Lauro de Freitas/BA, inscrita no CNPJ sob o n° 02.423.819/0001-97, para o Edital do Pregão Eletrônico acima referido cujo objeto é aquisição de sistema de vídeo wall para o Plenário Ataliba David Antônio, incluindo o fornecimento, instalação e treinamento, conforme condições e exigências estabelecidas nos termos do edital e dos seus anexos.

Na certeza de estar oferecendo a melhor solução, estamos à disposição para prestar maiores esclarecimentos.

DADOS DA EMPRESA			
Razão Social: ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA			
Endereço: RUA JOSÉ JORGE PEREIRA, 47, BURAQUINHO, LAURO DE FREITAS - BA, CEP 42.710-480			
CNPJ:	02.423.819/0001-97	Inscrição Estadual:	048.267.265
Telefone:	(71)99291-8151 (71)98151-0864 (71)98202-0480	E-mails:	jessica.liger@abs-tech.com licitacao@abs-tech.com

DADOS DO(S) REPRESENTANTE(S) LEGAL(IS) QUE IRÁ(ÃO) ASSINAR O CONTRATO			
Nome Completo: HANS JORG ULMER			
Endereço de Domicílio: ESTRADA DO COCO, KM 08, CONDOMÍNIO BUSCA VIDA, RUA LOBO GUARÁ, CATU DE ABRANTES - ABRANTES, CAMAÇARI, BA, CEP 42.841-000, BRASIL.			
CPF:	793.124.035-91	E-mail:	ulmer@abs-tech.com
Cargo Ocupado:	CEO/DIRETOR	Profissão:	DIRETOR COMERCIAL

DADOS BANCÁRIOS	
Banco:	BANCO DO BRASIL
Agência (com o dígito):	2976-9
Conta Corrente (com o dígito):	121.900-6

Salvador
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São Paulo
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ITEM	ESPECIFICAÇÕES DO OBJETO	UN.	QTD.	PREÇO UNITÁRIO	PREÇO TOTAL
1	Painel de LED 160" polegadas, Pitch Pixel P1.25	Un	3	R$ 214.200,00	R$642.600,00
2	Transmissor de Vídeo HDMI sobre IP	Un	4	R$ 13.800,08	R$ 55.200,32
3	Receptor de Vídeo HDMI sobre IP	Un	4	R$ 19.991,58	R$ 79.966,32
4	Unidade de Processamento e controle de painel de led com capacidade de 6,5 megapixels	Un	3	R$ 18.100,00	R$ 54.300,00
5	Interface de Operação	Un	1	R$ 6.508,50	R$ 6.508,50
6	Serviço de Instalação e Configuração	Un	1	R$ 43.269,50	R$ 43.269,50
7	Serviço de Treinamento	Un	1	R$ 26.531,50	R$ 26.531,50

Valor total do lote/grupo: R$ 908.376,14 (Novecentos e oito mil e trezentos e setenta e seis reais e quatorze centavos).

TABELA DE MARCAS E MODELOS

ITEM	ESPECIFICAÇÕES DO OBJETO	QTD.	MARCA / MODELO
1	Painel de LED 160" polegadas, Pitch Pixel P1.25	3	Fabulux / Painel de LED T COB - PP 1.25 + Acessórios
2	Transmissor de Vídeo HDMI sobre IP	4	BRWALL / BRNet-KE4H + Acessórios
3	Receptor de Vídeo HDMI sobre IP	4	BRWALL / BRNet-KD4H + Acessórios
4	Unidade de Processamento e controle de painel de led com capacidade de 6,5 megapixels.	3	Novastar / VX1000 Pro + Acessórios
5	Interface de Operação	1	Apple / iPad 11th gen, A16, Wi-Fi, 128GB + Acessórios
6	Serviço de Instalação e Configuração	1	ABSOLUT
7	Serviço de Treinamento	1	ABSOLUT

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Valor total do lote/grupo: R$ 908.376,14 (Novecentos e oito mil e trezentos e setenta e seis reais e quatorze centavos).

Validade da proposta: 60 (sessenta) dias.

Prazo de entrega: Conforme estabelecido no edital e seus anexos.

Estão inclusos nos preços supramencionados todos os custos diretos e indiretos, inclusive de embalagens, transportes ou fretes, e ainda os resultantes da incidência de quaisquer tributos, contribuições ou obrigações decorrentes da legislação trabalhista, fiscal e previdenciária a que estiver sujeito.

Declaro que possuo capacidade operacional e técnica para atendimento a todos os requisitos deste Edital e seus anexos.

Lauro de Freitas/BA, 01 de abril de 2026

HANS JORG ULMER:79312403591

Assinado de forma digital por HANS JORG ULMER:79312403591
Dados: 2026.04.01 15:38:32 -03'00'

ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA
HANS JORG ULMER

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Date: 2026.3.13

LETTER OF AUTHORIZATION

To: **Whom It May Concern**

Dear Sir/Madam,

This letter is to certify that **Absolut Technologies** (Hereinafter call the Authorized Partner) is our Authorized Partner in Brazil for the Supply.

We, **Beijing Huahang Shengde Technology Co.,Ltd (Brand BRWall)** having Corporate Headquarters at F4, Building A, Hongfu Science Park , Changping District, Beijing, China 102208. By this letter we do hereby authorize the Authorized Partner to use our products to offer in their Bid proposal.

Absolut Technologies Projetos e Consultoria LTDA, CNPJ 42.822.819/000197, as the technical and commercial representative, and also the sole distributor of the brand in Brazil, is certified and authorized to sell, install, and configure the products described in the terms of this tender.

We commit supplying the sufficient products for the Authorized Partner and give full support and guarantee for the products supplied by the Authorized Partner. At the same time, provide technical assistance to the Contractor during project implementation and ensure safety, security and supply of spare parts under the Supply Contract signed between the Employer and the Contractor.

Please do not hesitate to contact the undersigned, should you require any clarification

Thank you.
Yours Sincerely,
Senior Channel Manger

Beijing Huahang Shengde Technology Co.,Ltd.
R4024-4026, Building A, Hongfu Science Park , Changping District, Beijing, China 102208
Tel: +86 10 82749250 Fax: +86 10 82749250
Email: info@brwall.com Website: www.brwall.com

PARTNER CERTIFICATE

FABULUX LED

TO:	TRIBUNAL DE JUSTIÇA DO AMAZONAS AM
FROM:	Shenzhen Fabulux Technology Co., Limited
DATE:	12 de Março de 2026
SUBJECT:	DECLARAÇÃO DE REPRESENTATIVIDADE DA MARCA E DOCUMENTAÇÃO
PROCESS:	Errata do Edital de Licitação nº 900022/2026

A **Shenzhen Fabulux Technology Co., Limited,** localizada na Fabulux Industry Park 1201, Xiawei Industrial Zone, Guanhu Street, Longhua District, Shenzhen, China na qualidade de fabricante dos equipamentos Painel de LED da marca Fabulux LED série T COB DECLARA que:

A) Temos a **Absolut Technologies Projetos e Consultoria LTDA**, CNPJ 42.822.819/000197 como representante técnico e comercial, e ainda única distribuidora da marca no Brasil, de modo ser certificada e autorizada a vender, instalar, configurar os produtos descritos nos termos deste edital;

B) O painel da série T COB possui Gabinetes modulares: Estrutura fabricada em alumínio fundido, com sistema de travas rápidas para junção precisa, assegurando robustez e leveza. • Pixel Pitch: 1,25 mm, ideal para visualização em curta distância, garantindo alta qualidade de imagem e cores consistentes. • Uniformidade cromática: O modelo é projetado para manter excelente consistência de cores entre módulos, atendendo aos padrões exigidos para aplicações profissionais. Cumprindo plenamente às exigências técnicas estabelecidas no edital.

C) Toda a documentação técnica utilizada no processo licitatório foi enviada diretamente por esta fabricante, incluindo:

a. Versão geral dos catálogos e manuais técnicos da série T COB;

b. Versão específica para o projeto em questão, com detalhamento técnico aderente aos requisitos do Termo de Referência.

Em caso de necessidade de esclarecimentos adicionais, a equipe de engenharia da Fabulux está à disposição para prestar suporte técnico direto à Administração Pública, garantindo total transparência e segurança quanto à conformidade do produto ofertado

SANTIAGO J. CORTÉS P.
DIRECTOR DE ESTRATEGIA LATAM
SANTIAGO@FABULUXLED.COM

PARTNER CERTIFICATE

FABULUX LED

TO:	TRIBUNAL DE JUSTIÇA DO AMAZONAS AM
FROM:	Shenzhen Fabulux Technology Co., Limited
DATE:	12 de Março de 2026
SUBJECT:	DECLARAÇÃO DE REPRESENTATIVIDADE DA MARCA E DOCUMENTAÇÃO
PROCESS:	Errata do Edital de Licitação nº 900022/2026

Paledco

SANTIAGO J. CORTÉS P.
DIRECTOR DE ESTRATEGIA LATAM

CARTA DE SOLIDARIEDADE E RESPONSABILIDADE

Ao TRIBUNAL DE JUSTIÇA DO AMAZONAS
Referência: Pregão/Licitação nº 900022/2026
Objeto: Aquisição de Painel de LED

Prezados,

A **Shenzhen Fabulux Technology Co., Limited**, localizada na Fabulux Industry Park 1201, Xiawei Industrial Zone, Guanhu Street, Longhua District, Shenzhen, China na qualidade de fabricante dos equipamentos Painel de LED da marca Fabulux LED série T COB, declara para os devidos fins de direito, em especial para atender à licitação acima referenciada, que firma **Solidariedade** com a empresa licitante **Absolut Technologies Projetos e Consultoria LTDA**, CNPJ 42.822.819/000197.

Declaramos que:

1. Os equipamentos oferecidos atendem todas as especificações técnicas solicitadas no Termo de Referência.
2. Assumimos a responsabilidade conjunta pela garantia, assistência técnica, peças de reposição e suporte técnico pelo período de 36 meses, contados a partir da data de emissão da nota fiscal, garantindo a plena execução do contrato.

Por ser verdade, firmamos a presente.

Shenzhen - Guangdong , 12/03/2026.

SANTIAGO J. CORTÉS P.

DIRECTOR DE ESTRATEGIA LATAM
SANTIAGO@FABULUXLED.COM

AO
TRIBUNAL DE JUSTIÇA DO ESTADO DO AMAZONAS - TJAM

PREGÃO ELETRÔNICO Nº 022/2026
Processo Administrativo nº. 2025/000022080-00

OBJETO: Aquisição de sistema de vídeo wall para o Plenário Ataliba David Antônio, incluindo o fornecimento, instalação e treinamento, conforme condições e exigências estabelecidas neste instrumento e seus anexos.

DECLARAÇÃO

A ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA, inscrita no CNPJ sob nº 02.423.819/0001-97, por intermédio da sua representante legal a Sra. Jéssica Veloso Vinhático Liger, portadora do RG nº 15.075.750-68 e do CPF nº 066.516.785-74, interessada em participar do Pregão Eletrônico em epígrafe, **DECLARA,** que:

- Que está ciente e de acordo com as condições contidas no Edital e que cumpre plenamente os requisitos de habilitação definidos no instrumento convocatório;
- Que até a presente data, inexistem fatos impeditivos para sua habilitação no presente processo licitatório, ciente da obrigatoriedade de declarar ocorrências posteriores;
- Que elaborou de maneira independente sua proposta de preço para participar desta licitação;
- Que não emprega menores de dezoito anos em trabalho noturno, perigoso ou insalubre, nem menores de dezesseis anos em qualquer trabalho, salvo na condição de aprendiz, a partir dos quatorze anos;
- Que, conforme disposto no art. 93 da Lei nº 8.213/1991, está ciente do cumprimento da reserva de cargos prevista em lei para pessoa com deficiência ou para reabilitado da Previdência Social e que, se aplicado ao número de funcionários da empresa, atende às regras de acessibilidade previstas na legislação;
- Que cumpre a cota de aprendizagem nos termos estabelecidos no art. 429 da CLT;

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- Que não possui em sua cadeia produtiva, empregados executando trabalho degradante ou forçado, nos termos do inciso III e IV do art.1º e no inciso III do Art. 5º da Constituição Federal.

DECLARAÇÃO – VERACIDADE DE INFORMAÇÕES

PREGÃO ELETRÔNICO Nº 022/2026
Processo Administrativo nº. 2025/000022080-00

OBJETO: Aquisição de sistema de vídeo wall para o Plenário Ataliba David Antônio, incluindo o fornecimento, instalação e treinamento, conforme condições e exigências estabelecidas neste instrumento e seus anexos.

A empresa ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA, inscrita no CNPJ/MF sob nº 02.423.819/0001-97, sediada na Rua José Jorge Pereira, 47, Buraquinho, Lauro de Freitas - BA, CEP 42.710-480, por sua representante legal abaixo assinado, **DECLARA**, sob as penas da lei que:

Todas as informações e documentos apresentados são absolutamente verídicos, autênticos e fidedignos e estão de acordo com as legislações vigentes.

DECLARAÇÃO INEXISTÊNCIA DE FATO SUPERVENIENTE IMPEDITIVO

PREGÃO ELETRÔNICO Nº 022/2026
Processo Administrativo nº. 2025/000022080-00

OBJETO: Aquisição de sistema de vídeo wall para o Plenário Ataliba David Antônio, incluindo o fornecimento, instalação e treinamento, conforme condições e exigências estabelecidas neste instrumento e seus anexos.

A empresa ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA, inscrita no CNPJ/MF sob nº 02.423.819/0001-97, sediada na Rua José Jorge Pereira, 47, Buraquinho, Lauro de Freitas - BA, CEP 42.710-480, por sua representante legal abaixo assinado**, DECLARA**, sob as penas da lei que até a presente data inexistem fatos supervenientes impeditivos para sua habilitação no presente processo licitatório, ciente da obrigatoriedade de declarar ocorrências posteriores.

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PREGÃO ELETRÔNICO Nº. 022/2026 – TJAM

ANEXO I – Declaração conjunta de cumprimento das condições de habilitação e de inexistência de impedimento legal para licitar ou contratar com a Administração Pública.

A empresa ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA, inscrita no CNPJ/MF sob n° 02.423.819/0001-97, por intermédio da sua representante Sra° Jéssica Veloso Vinhático Liger, portadora do RG nº 15.075.750-68 e do CPF nº 066.516.785-74 DECLARA:

1) que está ciente e concorda com as condições contidas no edital e seus anexos, e que cumpre plenamente os requisitos de habilitação definidos no edital;

2) que até a presente data inexistem fatos impeditivos para sua habilitação no presente processo licitatório, ciente da obrigatoriedade de declarar ocorrências posteriores;

3) que não emprega menor de 18 (dezoito) anos em trabalho noturno, perigoso ou insalubre e não emprega menor de 16 (dezesseis) anos, salvo menor, a partir de 14 (quatorze) anos, na condição de aprendiz, nos termos do inciso XXXIII do art. 7º da Constituição Federal.

PREGÃO ELETRÔNICO Nº. 022/2026 – TJAM

ANEXO II – Declaração de elaboração independente de proposta

A empresa ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA, inscrita no CNPJ/MF sob n° 02.423.819/0001-97, por intermédio da sua representante Sra° Jéssica Veloso Vinhático Liger, portadora do RG nº 15.075.750-68 e do CPF nº 066.516.785-74 doravante denominado Licitante, em atendimento ao disposto no edital do Pregão Eletrônico nº.022 /2026, declara, sob as penas da lei, em especial o art. 299 do Código Penal Brasileiro, que:

a) a proposta anexa foi elaborada de maneira independente Licitante, e que o conteúdo da proposta anexa não foi, no todo ou em parte, direta ou indiretamente, informado a, discutido com ou recebido de qualquer outro participante potencial ou de fato do Pregão Eletrônico nº. 022/2026, por qualquer meio ou por qualquer pessoa;

b) a intenção de apresentar a proposta anexa não foi informada a, discutido com ou recebido de qualquer outro participante potencial ou de fato do Pregão Eletrônico nº. 022/2026, por qualquer meio ou por qualquer pessoa;

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c) que não tentou, por qualquer meio ou qualquer pessoa, influir na decisão de qualquer outro participante potencial ou de fato do Pregão Eletrônico nº. 022/2026 quanto a participar ou não da referida licitação;

d) que o conteúdo da proposta anexa não será, no todo ou em parte, direta ou indiretamente, comunicado a ou discutido com qualquer outro participante potencial ou de fato do Pregão Eletrônico nº. 022/2026 antes da adjudicação do objeto da referida licitação;

e) que o conteúdo da proposta anexa não foi, no todo ou em parte, direta ou indiretamente, informado a, discutido com ou recebido de qualquer integrante do Tribunal de Justiça do Amazonas antes da abertura oficial das propostas; e

f) que está plenamente ciente do teor e da extensão desta declaração e que detém plenos poderes e informações para firmá-la.

Lauro de Freitas/BA, 25 de março de 2026

gov.br
Documento assinado digitalmente
JESSICA VELOSO VINHATICO LIGER
Data: 25/03/2026 13:06:01-0300
Verifique em https://validar.iti.gov.br

ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA
Jéssica Veloso Vinhático Liger
Analista de Licitação Pleno

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PREGÃO ELETRÔNICO Nº 022/2026
Processo Administrativo nº. 2025/000022080-00

OBJETO: Aquisição de sistema de vídeo wall para o Plenário Ataliba David Antônio, incluindo o fornecimento, instalação e treinamento, conforme condições e exigências estabelecidas neste instrumento e seus anexos.

DECLARAÇÃO DE CONHECIMENTO DO LOCAL E DAS CONDIÇÕES DE EXECUÇÃO

DECLARO, para os devidos fins e sob as penas da lei, que a empresa ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA, inscrita no CNPJ/MF sob o nº 02.423.819/0001-97, possui pleno conhecimento do local de execução dos serviços, das condições de realização e de todas as demais peculiaridades inerentes à contratação do objeto previsto no Edital do Pregão Eletrônico nº 022/2026, assumindo total responsabilidade pela execução dos serviços nas condições estabelecidas no referido edital e seus anexos.

Por ser expressão da verdade, firmo a presente declaração.

Lauro de Freitas/BA, 20 de março de 2026

ABSOLUT TECHNOLOGIES PROJETOS E CONSULTORIA LTDA
Jéssica Veloso Vinhático Liger
Analista de Licitação Pleno
Documento assinado digitalmente
gov.br JESSICA VELOSO VINHATICO LIGER
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Olivar Barbosa da Silva Junior Gerente
de engenharia e TI
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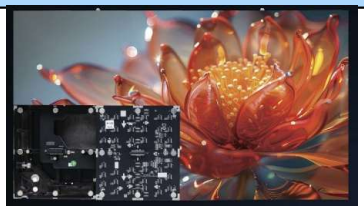
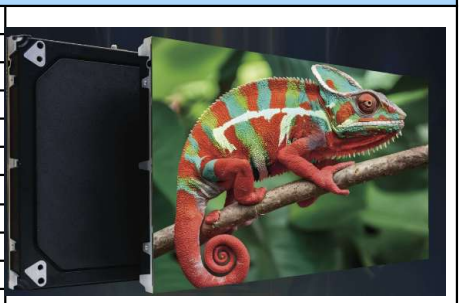
Shenzhen Fabulux Technology Co., Ltd.

Cotizacion tecnica - T COB 1.25

Especificaciones del modulo					
1	Pixel pitch (mm)	1,25			
	Pixel pitch (mm)	1,56			
	Dimensiones (mm)	0,15	0,16875	m	
	Resolucion 1.5	96	108	pixels	
	Resolucion 1.25	120	135	pixels	
	material	Plastico			
	peso (kgs)	0.55±0.05			
Especificaciones del gabinete					
2	Dimensiones (m)	0,6	0,3375	m	
	Resolucion 1.25 mm	480	270	pixels	
	Resolucion 1.5 mm	384	216	pixels	
	Densidad de pixeles por m2 1.25 mm	291.600			
	Densidad de pixeles por m2 1.5 mm	0			
	material	aluminio			
	Peso (kgs)	9			
Screen parameters					
3	Brillo (nits)	600-800			
	Temperatura de color (K)	3000 ~ 6000 (adjustable)			
	Contrast ratio	10000:1			
	Angulo de vista	160° (horizontal) / 140° (vertical)			
	Tasa de actualizacion	50 / 60Hz			
	Tasa de refresco	3840 Hz			
	Escala de grises	14-bit			
	LED lifespan until 50% brightness	100,000 hrs			
	Voltaje de operacion (V)	220			
	Mantenimiento	Frontal			
	Ingress protection (IP)	30			
	Humedad de funcionamiento	10% a 80%			
	Temperatura de operación	-10º a 40°			
	Horas de funcionamiento "Horas/Día"	24 / 7			
	Cetificaciones	CE, FCC, ETL, CB			

Painel 1

	Item	Descripcion/detalles			Cantidad	Unidad
4	1.25mm T COB Front-service maintenance 600x337.5mm cabinets (straight) Novastar OS A8 PRO 110-220V	Wall dimensions (WxH) (m)	3,6	2,025	7,29	m2
		Cabinet arrangement	6	6		
		Wall resolution	2880	1620		
	Packing	Racks de madera (incluye repuestos y accesorios)			2	pc

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BRWall®
Video Wall Solution Provider

Distributed System

BRNet-KE4H

Specification sheet

Brief introduction

BRNET-KE4H is a high-performance and cost-effective distributed node developed by our company.
Based on the distributed architecture design of Linux system, it is a decentralized architecture that can achieve any number of scalable nodes without the need for servers and master nodes. Each node is independent and does not interfere with each other, thereby reducing the risk of system operation and reducing maintenance costs. The advantage of this design is that it can better adapt to constantly changing needs without the need for large-scale system refactoring and upgrades.
The silent design without a fan is a very important feature. It can support independent installation of 1U cabinets or install 2 units side by side simultaneously, saving space and improving system flexibility. This design not only provides a more comfortable working environment, but also reduces system energy consumption and maintenance costs.
Suitable for many industries such as government, military, public security, judiciary, transportation, education, maritime, security, electricity, water conservancy, telecommunications, medical, finance, mining area broadcasting, energy, etc., it has been widely used in emergency command centers, command and dispatch centers, airport control, digital cities, digital transportation, digital healthcare, park security, digital buildings, digital construction sites, digital exhibition halls, multimedia conference rooms, lecture halls, and many other places

Functional characteristics

Full information visualization

Signal visualization, scene visualization, audio visual environment status visualization.

Simplify interaction

You can drag and drop the window with your fingers, and support multi touch.

Interface customization

Through the designer, you can freely design interface templates, which are simple to use, WYSIWYG, and support unified deployment of multiple platform interfaces.

Full brand IPC access

Supporting video access from major mainstream camera manufacturers, supporting standard streaming protocols such as ONVIF, RTSP, RTMP, etc., without the need for additional devices, it can be directly decoded for wall and pan tilt control, supporting integration with third-party security platforms, and achieving unified management and scheduling of multiple systems.

Soft KVM function

You can directly control any content of the signal source on the tablet, such as video playback, pause, PPT flipping, etc., making it convenient to explain when you moving.

Intelligent voice interaction

Support voice control signals for up and down screens, scene calls, and control of environmental devices such as lighting and curtains.

Low latency, high image quality

Adopting the H264/H265 international coding standard, combined with innovative image processing algorithms and transmission protocols, the network delay can be controlled within 50ms while ensuring high-quality images.

Inter frame synchronization technology

Unique synchronization algorithm achieves true frame synchronization, with complete and tear free images.

Multi platform compatibility

Supports various operating systems such as Windows, Android, iOS, Kirin, and Ningsi Panshi, with good compatibility, unified interface, and simple operation.

Audio state visualization

Support audio status visualization, can directly control audio switches, volume levels, etc., WYSIWYG

Environmental control

Support visual control of peripheral environmental equipment such as power supply, air conditioning, lighting, etc. The system collects real-time operational status data of various devices and displays them visually through a graphical interface.

One click scene call

Supports unlimited multiple scene saves and calls, allowing for one click access to pre saved scenes, as well as through warning linkage calls, or automatic scene rotation.

Application topology

Application scenarios

Command Center

Conference Center

Digital healthcare

Product specifications

Input resolution	Maximum support 3840x2160@60 , backward compatibility
Encoding performance	Simultaneously supporting 1-way 3840x2160@60fps +1-way 1080p@60+1-way D1+1-way CIF
Encoding format	H264/H265
Support Protocol	Supports RTSP, RTMP, and private protocols
Bandwidth occupancy	4M-40M
Frame rate	Support CBR/VBR, input supports adjustable frame rate of 1-60fps
Network communication	Supports unicast or multicast
Delayed	Delay from input acquisition to output display within 80ms
Synchronicity	Supports synchronization of various LED/LCD screens with synchronization error within 100us
Environmental control	Supports central control programming for both 232485 and infrared channels, as well as programming for 3 IO channels and RELAY relays
IPC forwarding	Supports forwarding of 4-way IPC signals, i.e. full screen display of IPC signals
Power hot backup	POE and DC 12V adapter power supply hot backup, one party fails, the other automatically replaces
Optical network mutual backup	Supports hot backup communication between optical and network ports, with one line malfunctioning and the other automatically replaced
Video interface	2HDMI2.0,one in and one out
Audio interface	Two 3.5mm audio interfaces, one in and one out, one Phoenix LINE IN audio input, one Phoenix LINE OUT audio output
Audio Format	AAC G711U G711A G726 PCM

Network interface	2 RJ45 10M/100M/1000M adaptive Ethernet port, with LINK1 supporting POE power supply
Fiber optic interface	1 SFP optical port
Serial port	1 programmable 232 serial port (Phoenix head) and 1 programmable 485 serial port (Phoenix head), 1 infrared input, 1 infrared output, 1 IO interface (Phoenix head), and 1 RELAY relay interface (Phoenix head)
USB	3-way USB 2.0 and 1-way USB 3.0, with one USB supporting USB passthrough function
Noise	Silent design without fan
Working temperature	10℃-50℃
Working humidity	10%-90% No condensation
Equipment size	214mm*132mm*34mm
Installation method	Install two units side by side in a 1U telecommunications standard cabinet

Information

We declare that our company's products will keep up with the development of technology and continue to improve. The product specifications are for reference only and are subject to change without prior notice. The final interpretation rights belong to our company.

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Distributed System

BRNet-KD4H

Specification sheet

Brief introduction

BRNET-KD4H is a high-performance and cost-effective distributed node developed by our company.
Based on the distributed architecture design of Linux system, it is a decentralized architecture that can achieve any number of scalable nodes without the need for servers and master nodes. Each node is independent and does not interfere with each other, thereby reducing the risk of system operation and reducing maintenance costs. The advantage of this design is that it can better adapt to constantly changing needs without the need for large-scale system refactoring and upgrades.
The silent design without a fan is a very important feature. It can support independent installation of 1U cabinets or install 2 units side by side simultaneously, saving space and improving system flexibility. This design not only provides a more comfortable working environment, but also reduces system energy consumption and maintenance costs.
Suitable for many industries such as government, military, public security, judiciary, transportation, education, maritime, security, electricity, water conservancy, telecommunications, medical, finance, mining area broadcasting, energy, etc., it has been widely used in emergency command centers, command and dispatch centers, airport control, digital cities, digital transportation, digital healthcare, park security, digital buildings, digital construction sites, digital exhibition halls, multimedia conference rooms, lecture halls, and many other places

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Full brand IPC access

Supporting video access from major mainstream camera manufacturers, supporting standard streaming protocols such as ONVIF, RTSP, RTMP, etc., without the need for additional devices, it can be directly decoded for wall and pan tilt control, supporting integration with third-party security platforms, and achieving unified management and scheduling of multiple systems.

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Unique synchronization algorithm achieves true frame synchronization, with complete and tear free images.

Multi platform compatibility

Supports various operating systems such as Windows, Android, iOS, Kirin, and Ningsi Panshi, with good compatibility, unified interface, and simple operation.

Audio state visualization

Support audio status visualization, can directly control audio switches, volume levels, etc., WYSIWYG

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Support visual control of peripheral environmental equipment such as power supply, air conditioning, lighting, etc. The system collects real-time operational status data of various devices and displays them visually through a graphical interface.

One click scene call

Supports unlimited multiple scene saves and calls, allowing for one click access to pre saved scenes, as well as through warning linkage calls, or automatic scene rotation.

Application topology

Application scenarios

Command Center

Conference Center

Digital healthcare

Product specifications

Output resolution	Maximum support 3840x2160@60
Decoding performance	Maximum support for decoding 2 channels simultaneously 3840x2160@60fps /4-way 3840x2160@30fps /8-way 1080P@60 Or 64 D1+1 4K high-definition base map
Encoding format	H264/H265
Support Protocol	Supports RTSP, RTMP, and private protocols
Bandwidth occupancy	4M-40M
Frame rate	Support CBR/VBR, input supports adjustable frame rate of 1-60fps
Network communication	Supports unicast or multicast
Delayed	Delay from input acquisition to output display within 80ms
Synchronicity	Supports synchronization of various LED/LCD screens with synchronization error within 100us
Environmental control	Supports central control programming for both 232.485 and infrared channels, while also supporting programming for three IO channels
IPC forwarding	Supports forwarding of 4-way IPC signals, i.e. full screen display of IPC signals
Power hot backup	POE and DC 12V adapter power supply hot backup, one party fails, the other automatically replaces
Optical network mutual backup	Supports hot backup communication between optical and network ports, with one line malfunctioning and the other automatically replaced
Video interface	1HDMI2.0
Audio interface	Two 3.5mm audio interfaces, one in and one out
Audio Format	AAC G711U G711A　G726 PCM

Network interface	1 RJ45 10M/100M/1000M adaptive Ethernet port, support POE power supply
Fiber optic interface	1 SFP optical port
Serial port	1 programmable 232 serial port (Phoenix head) and 1 programmable 485 serial port (Phoenix head), 1 infrared input, 1 infrared output, 1 IO interface (Phoenix head)
USB	2-way USB 2.0 and 1-way USB 3.0
Noise	Silent design without fan
Working temperature	10℃-50℃
Working humidity	10%-90% No condensation
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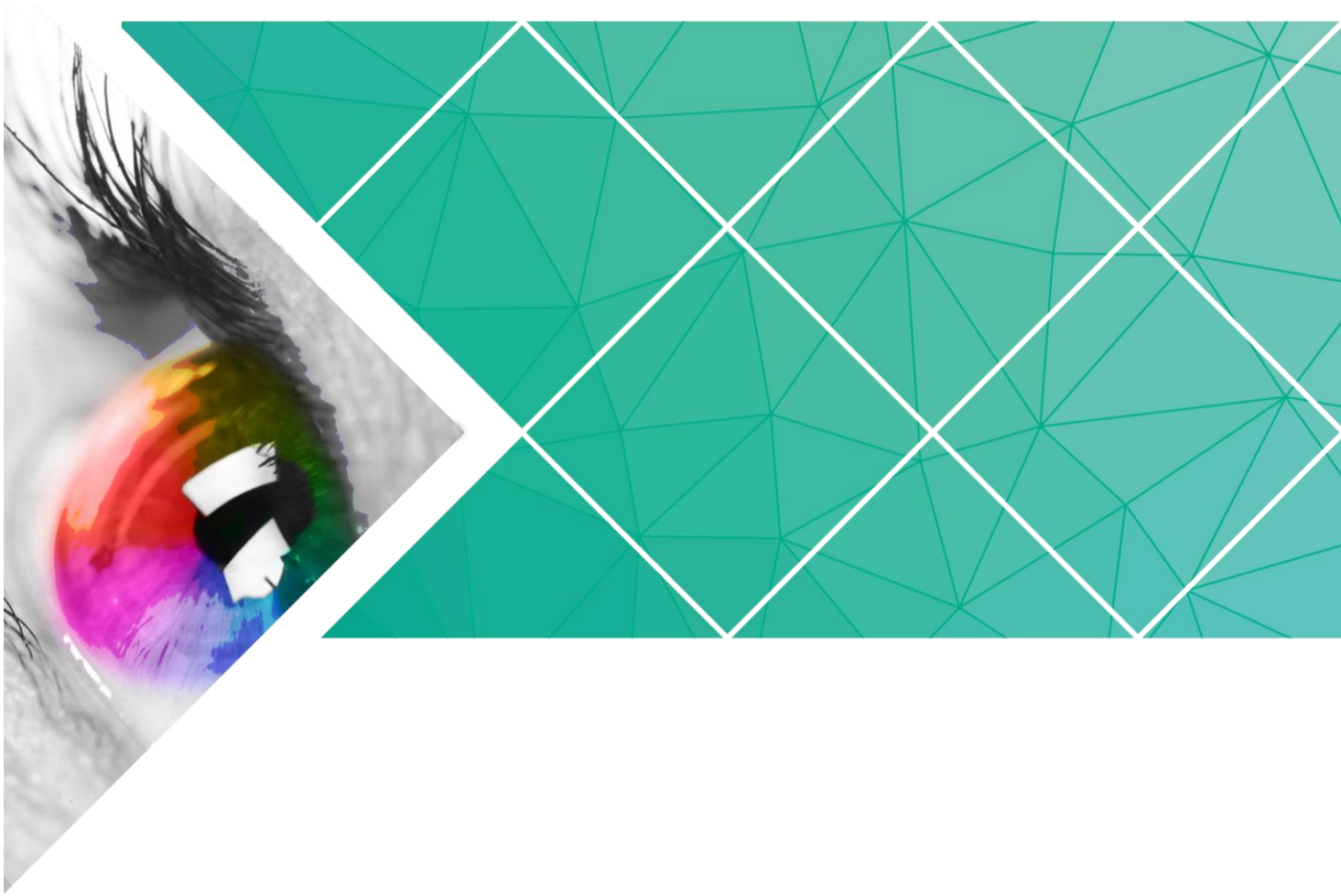
V-Can

Video Control Software



User Manual

Contents

1 Overview

V-Can is an intelligent control platform for NovaStar's seamless switchers such as J6 and N9, as well as all-in-one controllers such as VX600 and VX1000. Users can easily and quickly control and manage video processors and all-in-one controllers on Windows and Mac platforms. The user interface and features of V-Can may vary depending on the features of the connected devices.

Main features:

- User-friendly interface
- Completely visualized operations, easy to operate and use
- Cross-platform design, Windows & Mac supported
- Simultaneously connect and control multiple video processors and all-in-one controllers

2 Software Installation

2.1 Obtain Software

Visit NovaStar's official website (www.novastar.tech) and then go to **DOWNLOADS** > **Software** > **V-Can**. Select the matched V-Can version and documents according to your device and PC version.

2.2 Install Software

Requirements of software operating environment

- CPU: 64-bit, 1 GHz or greater
- RAM: 2GB or greater
- GPU: DirectX 9, 128M and above
- HD space: 16GB minimum available
- Monitor: resolution ≥ 1280×720 pixels
- OS: Windows 7 or later, macOS 12.0 or later
- On a macOS system, the CMS260 does not support direct connection to a PC's Ethernet port.

Software Installation

The installation process of V-Can is an ordinary one. Just follow the setup wizard prompted to complete the installation.

Notes:

If your antivirus software or firewall blocks the installation, make sure to allow it.

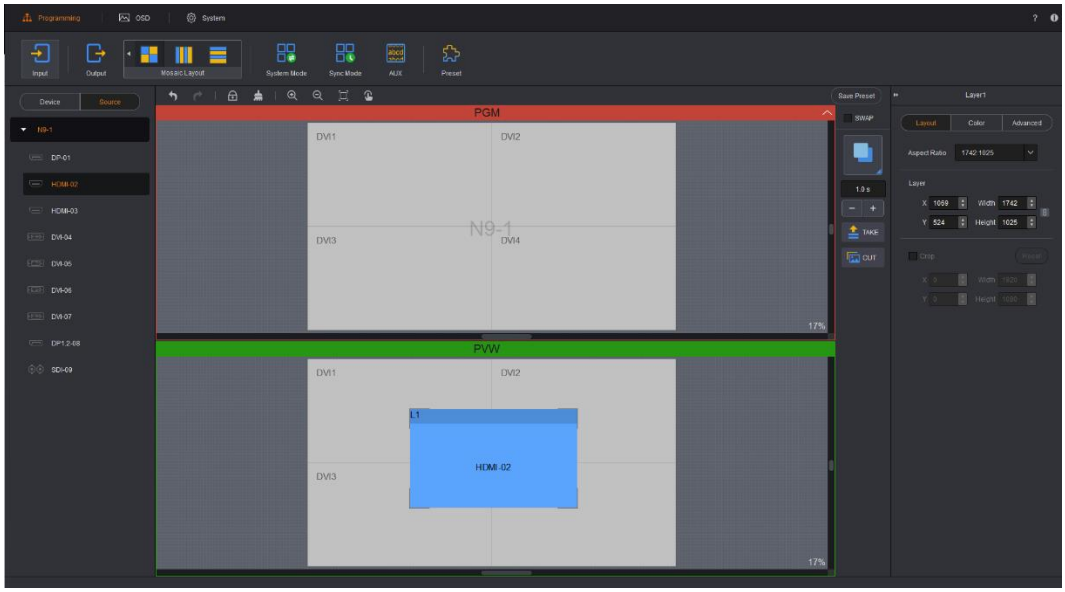
If you encounter a malware warning when running the installation package on macOS, go to "System Preferences" and permit both the installation and execution of V-Can.

2.3 Run Software

After the software is successfully installed, double-click the icon 

on your desktop to run V-Can and the main user interface after a successful start is as shown in Figure 2-1.

Figure 2-1 Main user interface of V-Can



2.4 User Interface

The user interface can be divided in to 8 areas as shown in Figure 2-2. The functions of each area are illustrated in Table 2-1. The interface presented by V-Can may vary when different devices are connected. The following figure is an illustration using the N9 as an example.

Figure 2-2 User interface function areas

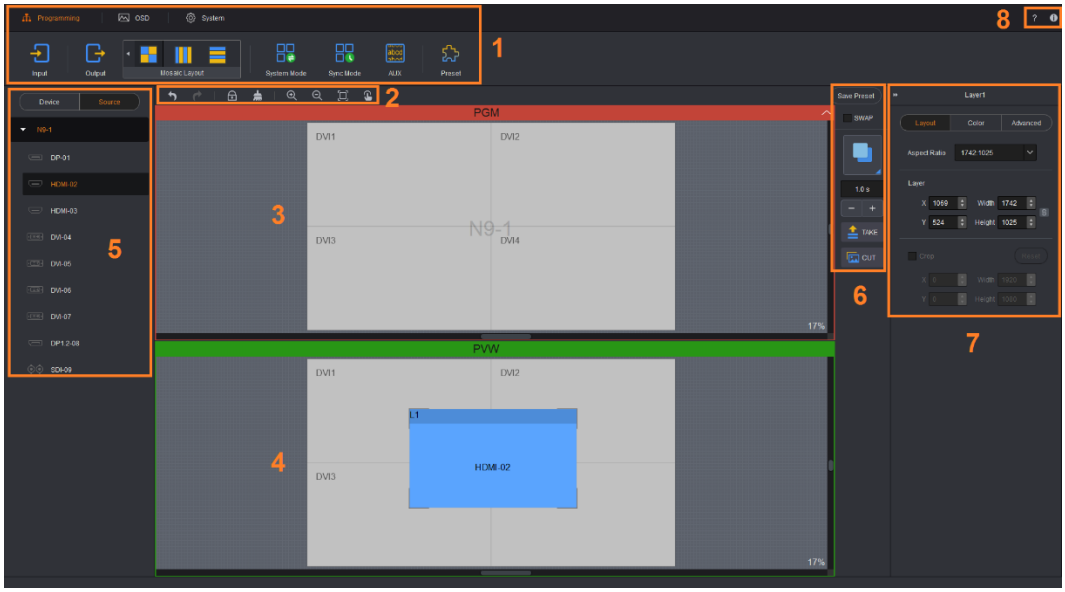


Table 2-1 Function area descriptions

No.	Name	Description
1	Menu bar	V-Can provides three major functions and multiple sub-function modules. Three major functions are **Programming**, **OSD** and **System**.
2	Shortcut function buttons	: Undo the last operation. • : Redo the last operation. • / : Lock and unlock the layers. • : Clear all the layers in the editing area. • / / : Zoom in, zoom out and restore (auto fit) the editing area. • : Restore all layer sizes and arrange the layers using Z-order. – The layer size is restored to the half input source width and height. – The layer 1 starts from the top left corner (starting point), and every subsequent layer gets a 50-pixel offset both horizontally and vertically from its previous layer. • / : Freeze or unfreeze the current frame of PGM. • / : Black out the PGM or cancel the blackout.
3	PGM	PGM display area Note: When the connected device is a video wall splicer or all-in-one controller, there are no PGM and PVW.
4	PVW	• Display the screen mosaic layout. • Add, edit and delete layers. • Set the size and position of OSD, BKG and LOGO.
5	Devices/Signal sources	• Device: Display and delete the connected devices. • Source: Display the accessed signal sources and input connector types, as well as rename the signal source.
6	Transition	• SWAP: Set whether to exchange the PVW with PGM. – Checked: Click **TAKE** or **CUT** to swap the PVW and PGM. – Unchecked: Click **TAKE** or **CUT** to copy the PVW to PGM. • TAKE: Send the PVW layers to PGM with a selected transition effect. • CUT: Send the PVW layers to PGM without any transition effect.
7	Properties	• Layout: Set the layer aspect ratio, size and position, mask and input source cropping. • Color: Set the layer image quality. • Advanced: Set the layer border, keying and cloning effects.
8	Help and	• Help: Read the user manual of V-Can.

No.	Name	Description
	about	• About: View the version and copyright for V-Can.

3 Functionality

3.1 Programming

Under the **Programming** tab, you can set the input, output, mosaic, transition, preset, layers, presets, system mode, sync mode, AUX, HDR, 3D, output mapping and more.

Note:

When different devices are connected, the sub-function modules under **Programming** vary and the functions of each function module may also vary.

3.1.1 Input Settings

3.1.1.1 Set Input Resolution

If pixel-to-pixel output display is needed and the current output capacity does not match the resolution given by the input, the input resolution settings are required.

Standard and custom input resolution settings are both supported.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

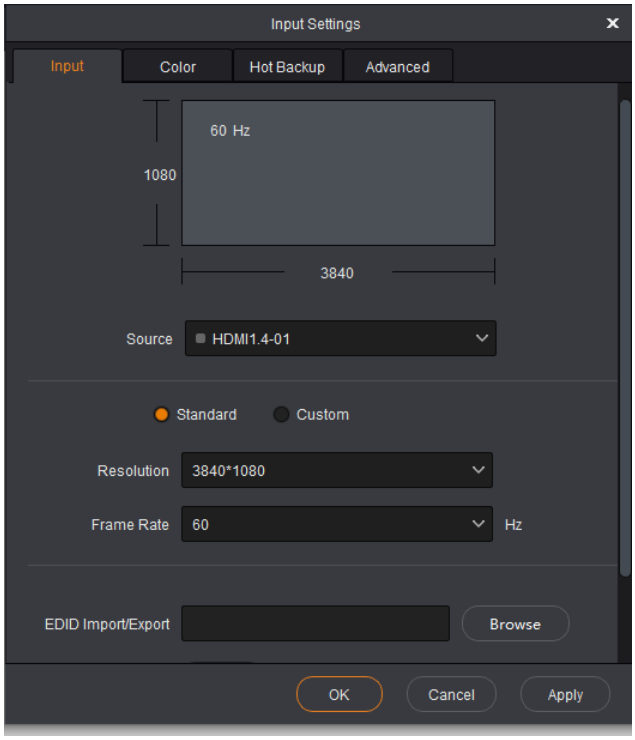
Notes

- When the inputs are from the computer graphics card, the input resolution can be set.
- Only DVI, HDMI and DP connectors support input resolution settings.

Operating Procedure

Step 1 Go to **Programming** > **Input** > **Input** to open the input settings window as shown in Figure 3-1.

Figure 3-1 Input resolution



Step 2 Select the desired input source from the drop-down list next to **Source**.

- Set a standard resolution: Select **Standard**, and select a desired resolution and frame rate from the drop-down list.
- Set a custom resolution: Select **Custom**. Drag the slider, enter a value in the text box or click the up or down arrow next to the text box to set a desired input width and height, and then select a desired frame rate from the drop-down list.

Step 3 Click **Apply** or **OK** to complete the input resolution settings.

3.1.1.2 Import and Export EDID

This function enables a quick and efficient EDID configuration.

Applicable Products

VX1000, VX600, VX400, VC6, VC10, VC16, VC24, DSP400, DSP600

Notes

- Before the EDID importing or exporting, V-Can must be connected to the controlled device successfully.
- To import the EDID, you must already have an EDID file exported from the same device model in your hand.

Operating Procedure

- Export EDID:
  a. Go to **Programming** > **Input** > **Input** to open the input settings window.
  b. Click **Export** in the **EDID Import/Export** area to export the set input resolution as a local file.
- Import EDID:
  a. Go to **Programming** > **Input** > **Input** to open the input settings window.

b. Click **Browse** in the **EDID Import/Export** area to select the desired EDID file.

c. Click **Import** to import the file.

3.1.1.3 Set Input Mosaic

Mosaic multiple input sources of the same type to form a new source.

Applicable Products

VX1000, VX600, VX400, NovaPro UHD Jr, VX16s

Notes

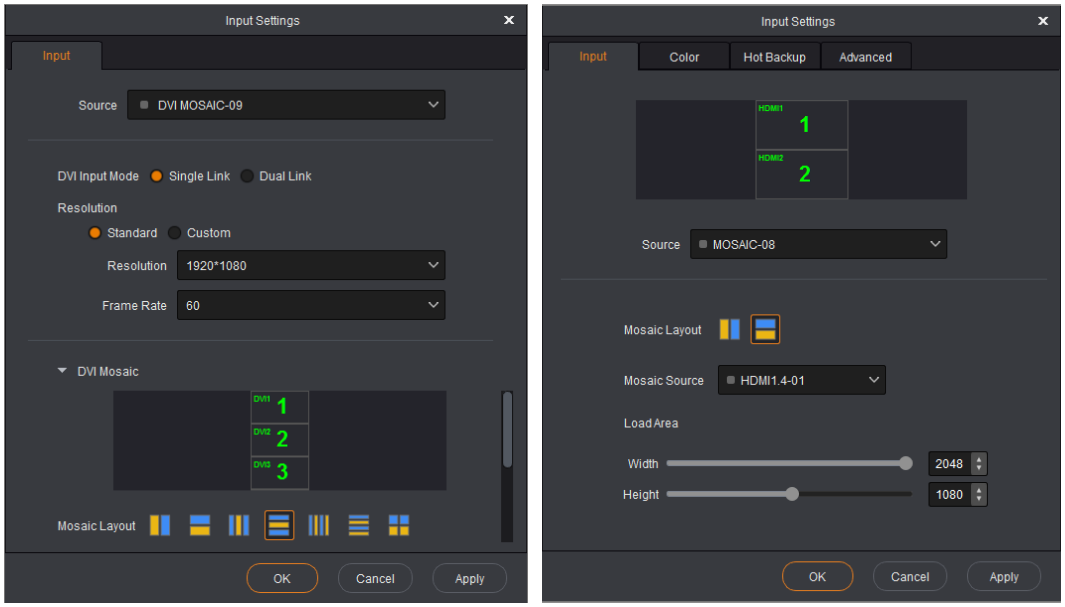
The input connectors must be of the same type.

Operating Procedure

Step 1 Go to **Programming** > **Input** to open the input settings window.

Step 2 Select **DVI MOSAIC** from the drop-down list next to **Source** as shown in Figure 3-2.

Figure 3-2 Input settings



Step 3 Select the DVI input mode.

DVI input modes include single link and dual link modes. The former one supports mosaic of up to 4 DVI connectors, but the latter one supports at most 2.

Step 4 (Optional) Set the input resolution for the DVI connector.

Step 5 Select the desired mosaic layout from the layouts provided.

Step 6 Select the desired input source from the drop-down list next to **Mosaic Source**.

Step 7 Under **Load Area**, set the width and height of the area by dragging the slider, entering a value in the text box or clicking the up or down arrow next to the text box.

Note:

If the resolution of the input source for mosaic is too high, go to **Load Area** to crop the input source. The starting point of the cropping is the top left corner of the source by default.

3.1.1.4 Adjust Input Color

V-Can allows you to adjust the brightness, contrast, hue and saturation of each signal source accessed to the device.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, VC6, VC10, CMS260

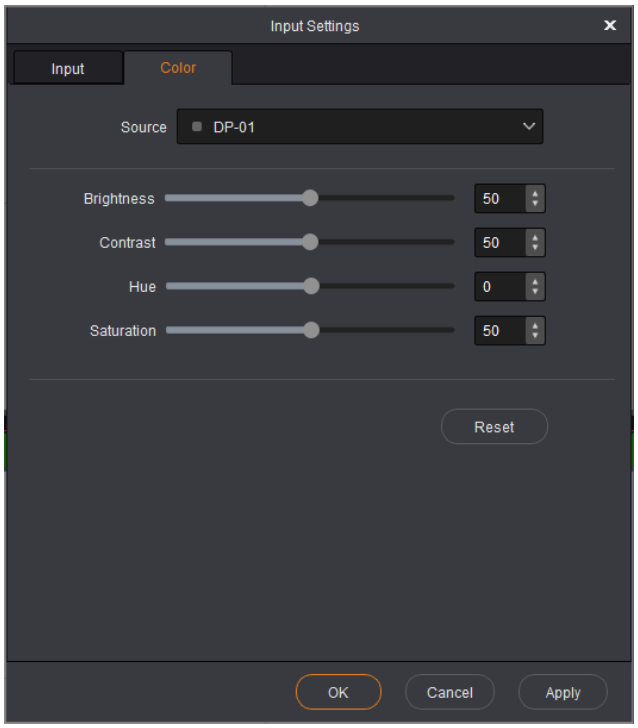
Notes

The NovaPro UHD Jr and VX16s do not support input color adjustment.

Operating Procedure

Step 1 Go to **Programming** > **Input** > **Color** to open the input color settings window as shown in Figure 3-3.

Figure 3-3 Input color



Step 2 Select the desired input source from the drop-down list next to **Source**.

Step 3 Drag the slider, enter a value in the text box or click the up or down arrow next to the text box to set a desired value for the selected color parameter.

Step 4 Click **Apply** or **OK** to complete the input color settings.

Click **Reset** to reset all the color parameters to defaults.

3.1.1.5 Set Hot Backup

V-Can allows you to set input backup channels in case of input failures. When a fault occurs on the input connector, the backup channel can be a timely alternative to avoid black screen and other display abnormalities.

Applicable Products

VX1000, VX600, VX400

Notes

- In each hot backup group, two input sources serve as the backup for each other.
- Only the source from the same type of the input connector can be set as the backup source.
- Restrictions on hot backup functions:

  Input sources A and B form a hot backup group. The current input source of the layer is input source A.

  - Input A: No signal

    Input B: Signal

    The layer input source is switched to input B automatically. When input A resumes and input B still has a signal, the layer input source will not be switched.
  - Input A: No signal

    Input B: Signal

    The layer input source is switched to input B automatically. When input A resumes but input B does not have a signal, the layer input source will be switched to input A.
  - Input A: No signal

    Input B: No signal

    The layer input source will not be switched.
  - Input A: Signal

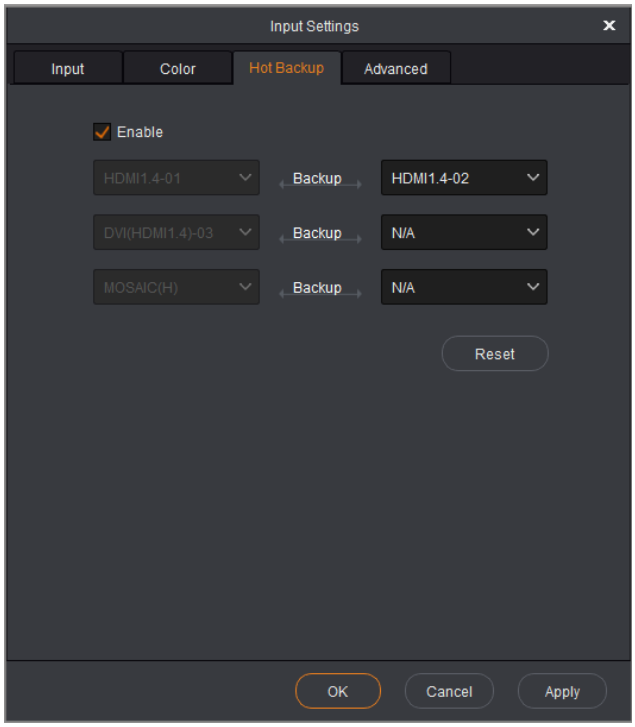
    Input B: No signal

    If you manually switch the layer input source to input B, the source will be switched to input A automatically.
- After the hot backup function is enabled, once the input source changes, including but not limited to resolution change and input failure, the layer input source will be switched to the backup source.

Operating Procedure

Step 1 Go to **Programming** > **Input** > **Hot Backup** to open the input hot backup window as shown in Figure 3-4.

Figure 3-4 Input hot backup



Step 2 Select **Enable** to turn on the function.

Step 3 On the right side, click the drop-down arrow to select the desired backup source from the list that appears.

Step 4 Click **Apply** or **OK** to complete the input hot backup settings.

3.1.1.6 Other Advanced Settings

Advanced features allow you to set whether to enable the limited to full, HDCP and audio functions for the input source, as well as view the input source color space and sampling rate.

Applicable Products

VX1000, VX600, VX400, DSP400, DSP600, VC6, VC10, VC16, VC24, NovaPro UHD JR, CMS260

Notes

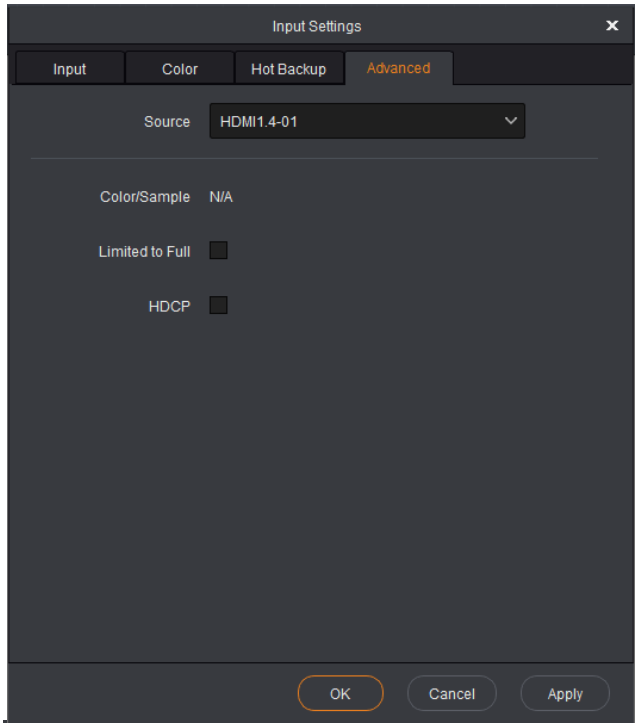
You cannot set the limited to full and HDCP functions for the OPT, Mosaic and SDI sources.

You cannot view the color space and sampling rate for the OPT and Mosaic sources.

Operating Procedure

Step 1 Select the desired input source from the drop-down list next to **Source**.

Figure 3-5 Advanced settings



Step 2 View the color space and sampling rate of the input source.

The system will automatically identify the input source color space and sampling rate and display them next to **Color/Sample**.

Step 3 Set whether to enable the limited to full function.

This function automatically converts the color space of the video source from RGB limited to RGB full, allowing for more accurate video processing.

- Checked: The converting function is turned on, i.e. convert the color space of the current input source from RGB limited to RGB full. You are advised to turn on this function when the color space of the video source is RGB limited.
- Unchecked: The converting function is turned off, i.e. do not convert the color space of the current input source from RGB limited to RGB full.

Step 4 Set whether to enable the HDCP function by checking or unchecking the box next to **HDCP**.

- Checked: The input source HDCP function is turned on. When an HDCP-encrypted source is accessed, you are advised to turn on this function.
- Unchecked: The input source HDCP function is turned off.

3.1.2 Output Settings

3.1.2.1 Set Output Resolution

You can set the device output resolution.

Applicable Products

VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s, VC10, DSP400, DSP600

Notes

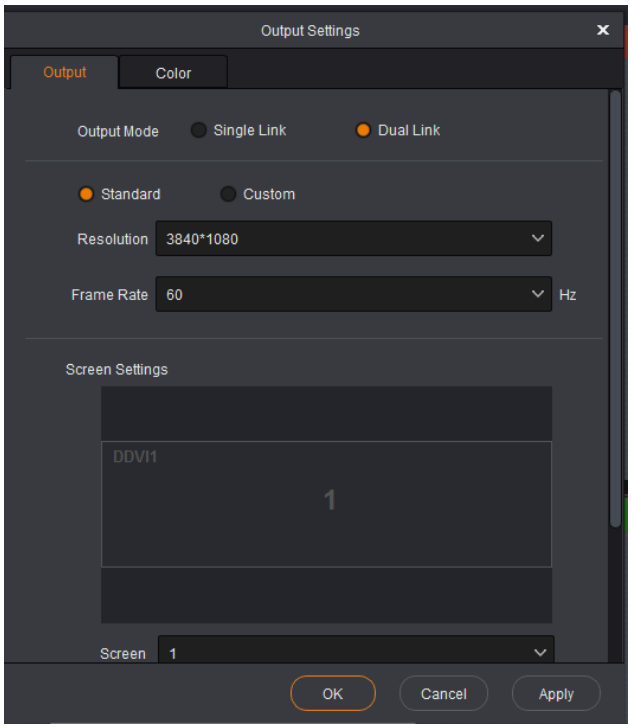
The NovaPro UHD Jr and VX16s all-in-one controllers only support output frame rate settings.

Operating Procedure

- When the connected device is J6, N9 or VS7,

Step 1 Go to **Programming** > **Output** > **Output** to open the output settings window as shown in Figure 3-6.

Figure 3-6 Output settings



Step 2 Select the output mode.

The DVI output connector of video processor supports single link and dual link output modes.

- Single Link: All output connectors of the video processor are used for output. Each output connector supports up to 1920×1200@60Hz output resolution.
- Dual Link: Half output connectors of the video processor are used for output, and the other half are unavailable. Each output connector supports up to 3840×1080@60Hz output resolution.

Step 3 Set the output resolution.

- Set a standard resolution: Select **Standard**, and select the desired resolution and frame rate from the drop-down list.
- Set a custom resolution: Select **Custom**. Drag the slider, enter a value in the text box or click the up or down arrow next to the text box to set a desired input width and height, and then select a desired frame rate from the drop-down list.

Step 4 Set the screen width and height according to the actual screen size.

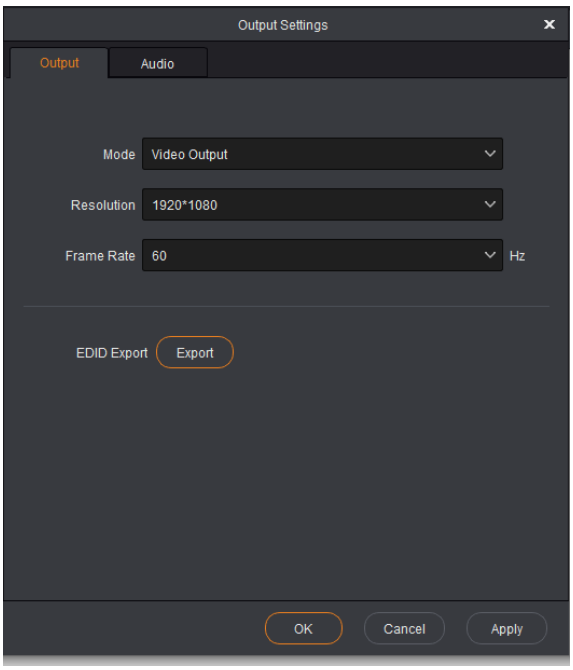
2. Select a desired screen from the drop-down list next to **Screen**.
3. Set the width and height for the selected screen.

Step 5 Click **Apply** or **OK** to complete the output resolution settings.

- When the connected device is VX1000, VX600 or VX400,

Step 1 Go to **Programming** > **Output** > **Output** to open the output settings window.

Figure 3-7 Output settings



Step 2 Select the HDMI output mode from the drop-down list next to **Mode**.

The provided options include **Video Output** and **Monitor**.

- Video Output: The input image is processed and then output.
- Monitor: The content output to the LED screen is scaled and output according to the HDMI output resolution and frame rate, in order to adapt to the backend display device or receiving device.

Step 3 Select the desired output resolution for the HDMI connector from the drop-down list next to **Resolution**.

Step 4 Select the desired frame rate from the drop-down list next to **Frame Rate**.

Step 5 Click **Apply** or **OK** to complete the output resolution settings.

- When the connected device is VX400, VX600, VX1000, DSP400, DSP600, VC6, VC10 you can export the EDID configuration to your local computer.

Step 1 Go to **Programming** > **Output** > **Output** to open the output settings window.

Step 1 Click **Export** to export EDID data to local.

3.1.2.2 Set Output Color

You can adjust the output brightness, contrast, hue and saturation.

Applicable Products

J6, N9, VS7, NovaPro UHD Jr, VX16s

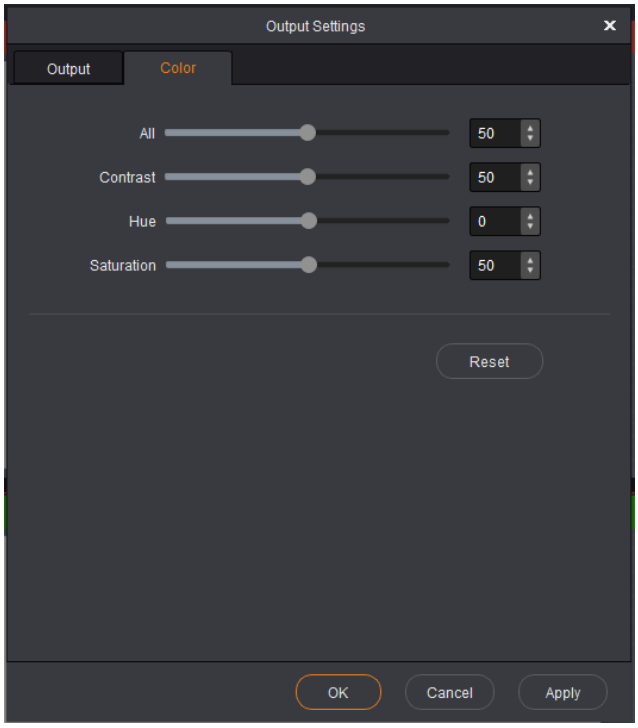
Notes

None

Operating Procedure

Step 1 Go to **Programming** > **Output** > **Color** to open the output color settings window as shown in Figure 3-8.

Figure 3-8 Output color



Step 2 Drag the slider, enter a value in the text box or click the up or down arrow next to the text box to set a desired value for the selected color parameter.

Note:

The J6 and VS7 support individual RGB brightness adjustments.

Step 3 Click **Apply** or **OK** to complete the output color settings.

Click **Reset** to reset all the color parameters to defaults.

3.1.2.3 Set Output Audio

You can set the output audio and volume.

Applicable Products

VX1000, VX600, VX400, VC6, VC10, VC16, VC24, CMS260, DSP600, DSP400

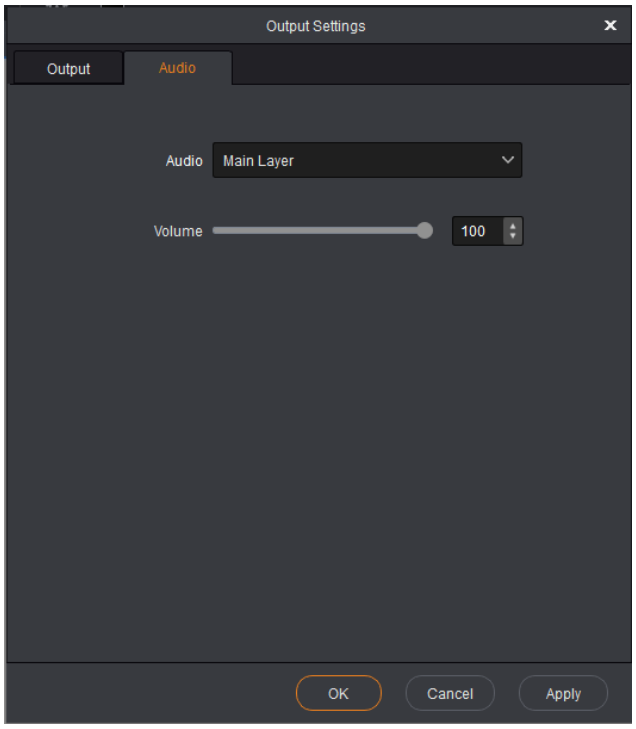
Notes

None

Operating Procedure

Step 1 Go to **Programming** > **Output** > **Audio** to open the output audio settings window.

Figure 3-9 Audio settings



Step 2 Select the audio output.

- Off: Turn off the output audio.
- Main Layer/PIP 1/PIP 2: Play the audio that comes with the main layer, PIP 1 or PIP 2 via an external speaker.
- Audio In: Play audio from sources such as microphones or audio consoles via an external speaker.

Step 3 Adjust the audio volume.

Drag the slider, enter a value in the text box or click the up or down arrow next to the text box to set a desired value for the audio volume. The value ranges from 0 (silent) to 100 (loudest).

3.1.3 System Mode

NovaStar devices usually offer different working modes. You can switch to different working mode to meet the requirements of your actual on-site applications.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, N9

Notes

- When the connected device is the J6, V-Can supports **Splicer** and **Switcher** modes.
- When the connected device is the VX5s or VX6s, V-Can supports **Direct** and **Switcher** modes.

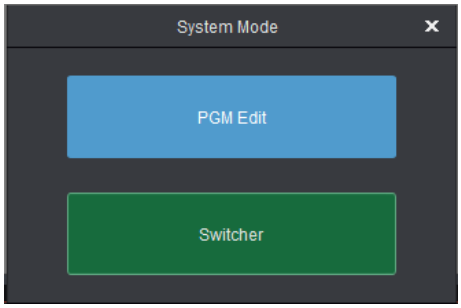
- When the connected device is the N9, V-Can supports **PGM Edit** and **Switcher** modes.
- When the connected device is the VX1000, VX600 or VX400, V-Can supports **Video Control** and **ByPass** modes.

Operating Procedure

Step 1 Go to **Programming** > **System Mode** to open the system mode window.

Step 2 Select the target mode.

Figure 3-10 System mode



- PGM Edit: Directly edit the layers on PGM.
- Switcher: Add and edit the layers only in PVW area. After the editing, click TAKE or CUT to send the display content to the LED screen.
- Splicer/Direct: The layers are synchronously displayed on the LED screen.
- Video Control: The device works as a video controller, and supports scaling, layer and preset settings, switching and more.
- ByPass: The device works as an independent controller, and supports pixel-to-pixel display without any processing.

3.1.4 Mosaic Settings

Mosaic include connector mosaic and image mosaic.

3.1.4.1 Set Connector Mosaic

Applicable Products

J6, VS7, N9

Notes

- When the connected device is J6, the supported mosaic layouts may vary according to different system modes and output connector modes.
  - Splicer
    Single link output: 1×1, 1×2, 1×3, 1×4, 2×1, 3×1, 4×1, 2×2
    Dual link output: 1×1, 1×2, 2×1
  - Switcher
    Single link output: 1×1, 1×2, 2×1
    Dual link output: 1×1
- When the connected device is N9, the supported mosaic layouts may vary according to different output connector modes.
  - Single link output: 1×1, 1×2, 1×3, 1×4, 2×1, 3×1, 4×1, 2×2

- Dual link output: 1×1, 1×2, 2×1

Prerequisites

- You have completed the output connector mode settings in **Output Settings**.
- You have completed the system mode settings in **System Mode**.

Operating Procedure

Step 1 Click **Programming** to enter the layer editing page.

Step 2 Click  or  next to **Mosaic Layout** to expand the mosaic layout pane.

Figure 3-11 Mosaic layouts available in Splicer mode

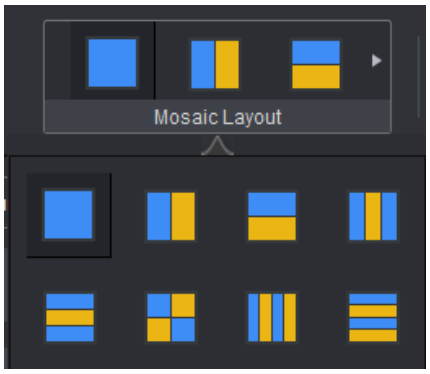
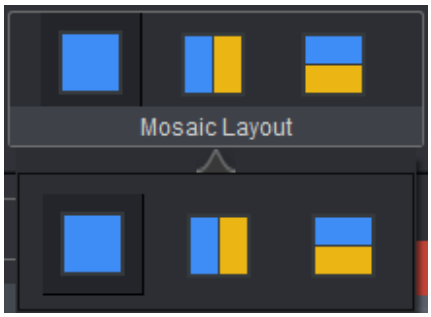


Figure 3-12 Mosaic layouts available in Switcher mode



Step 3 Select the desired layout based on your screen structure and then the layout will be shown in the editing area.

Step 4 Go to **Settings** > **Output** > **Output** to open the output settings window.

Step 5 Set the screen width and height according to the actual screen size.

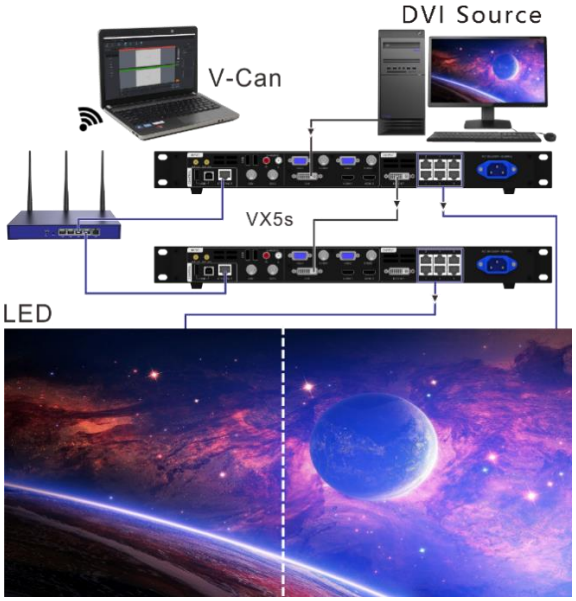
1. Select a desired screen from the drop-down list next to **Screen**.
2. Set the width and height for the selected screen.

Step 6 Click **Apply** or **OK** to complete the output mosaic settings.

3.1.4.2 Set Image Mosaic

Image mosaic is to connect two or more all-in-one controllers of the same model to realize larger loading capacity.

Here we use two VX5s units as an example to illustrate the device connections.



Applicable Products

VX5s, VX6s, VX1000, VX600, NovaPro UHD Jr

Notes

- Only the devices of the same model and system mode can be used for image mosaic.
- If the added layer does not cross over the devices, the layer will only occupy the resources of the current device.
- If the added layer crosses over more than one devices, once the layer crosses one device, the layer will occupy one layer resource of the crossed device.
- After the layers have been added, the mosaic layout cannot be set. If you do need to rearrange the mosaic, please delete all the layers first.

Prerequisites

- You have completed the screen configuration on all the devices for image mosaic.
- You have enabled the synchronization function on all the devices and their sync sources are the same.

Operating Procedure

V-Can will automatically connect all the online devices after the device connections are completed.

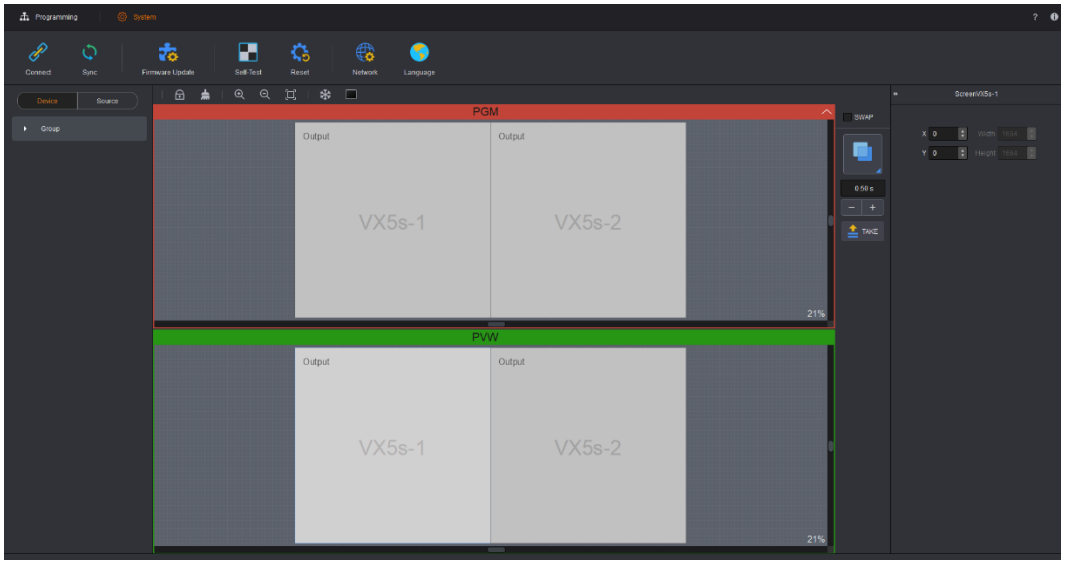
Step 1 Click **Device** on the left pane to view all the connected devices.

Step 2 Click the desired device and drag it to the target device, and then a mosaic group is created as shown in Figure 3-13.

The system will assign a name for the mosaic group, such as Group 1 and Group 2.

- Click next to the group to rename it.
- Click next to the group to ungroup it.
- Click next to a device to remove it from the group.

Figure 3-13 Image mosaic



Step 3 In PVW area, click and drag the output area to set the mosaic layout based on the loaded screen structure.

Step 4 Click **Source** on the left pane to view all the signal sources accessed to the device. Signal source statuses are described as below.

- Green: The signal is accessed to the same connector on each device.
- White: No signal is accessed or no signal is accessed to one or more devices.

Step 5 Click and drag the selected signal source to PVW, and then release the mouse to add an 800×600 layer.

- The added layer crosses over several devices
  - When the same signal source is accessed to the LOOP connector or video splitter, each device will display the image area loaded by itself and all the image areas together form a complete image.
  - When different signal sources are accessed to the devices, each device will display its own image.
- The added layer does not cross over several devices
  The image will be output only by the crossed device, while other devices will not output any images.

3.1.5 Group Control

V-Can supports the control of multiple video processors. You can perform preset switching, TAKE, CUT, FTB and freeze operations on these video processors simultaneously.

Applicable Products

- J6 V3.0.0.0 or later
- N9 V2.1.0.0 or later

Notes

In group control mode, all the video processors and control PC must be on the same network segment.

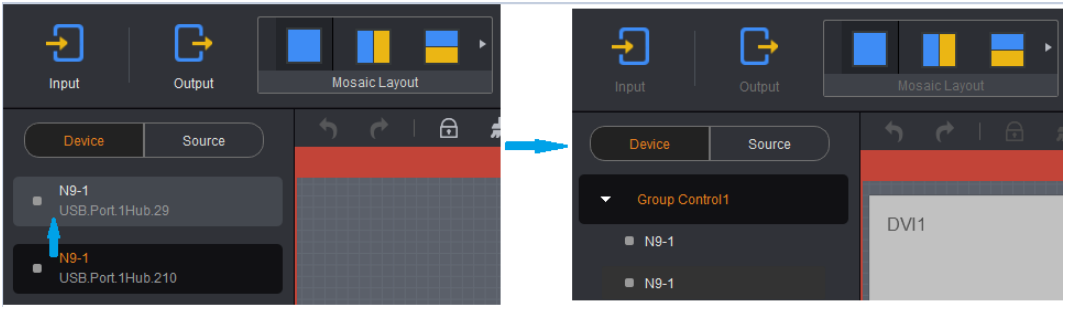
Operating Procedure

Step 1 On the **Programming** page, click **Device** on the left pane to show the device list.

Step 2 Click a device and drag it to the target device to form a device group.

If you want to add more devices to this group, simply click and drag the device to the group.

Figure 3-14 Group control



- Load preset

  Go to **Programming** > **Preset** to open the preset window, and then select a saved preset to load it.

  - When all the presets with the same sequential number are not empty, the presets will be loaded on all the devices in the group.
  - When all the presets with the same sequential number are all empty, the presets will not be loaded.
  - When any of the presets with the same sequential number is empty, the nonempty presets will be loaded.
- FTB

  Click ■ / ◪ to make the output images on all devices fade to black or not.
- Freeze

  Click ❄ / ❄ to freeze or unfreeze the output images on all devices.

3.1.6 Add Layers

A layer is an editable container containing and displaying video or image data.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

None

Prerequisites

None

Operating Procedure

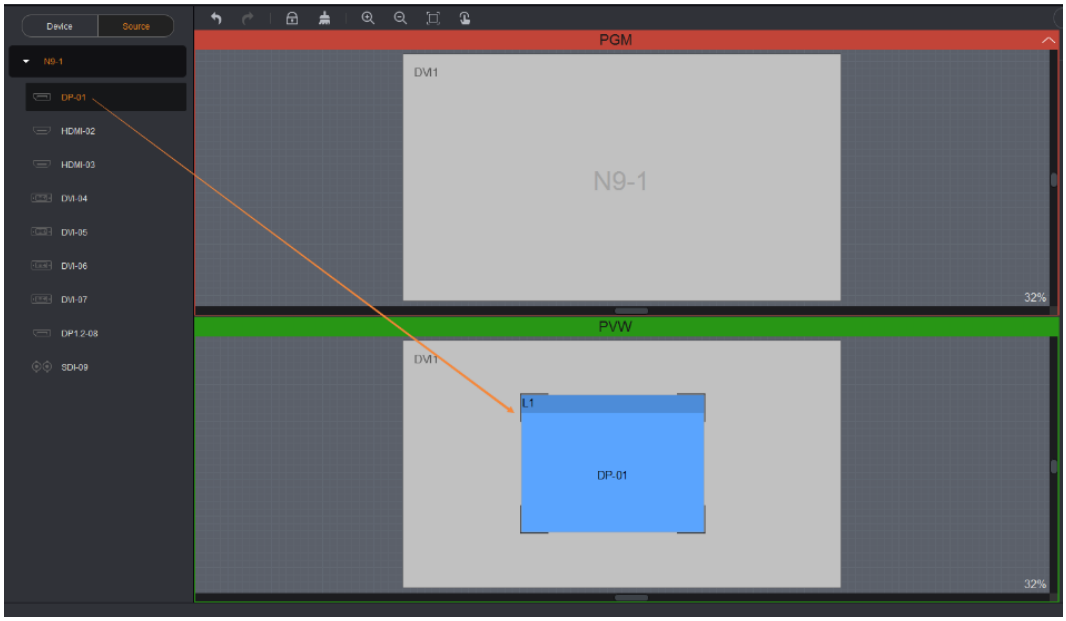
Step 1 Click **Source** on the left pane to show the signal sources.

Step 2 Select the desired signal source.

Step 3 In PVW area, click and drag the mouse, and then release the mouse to add a layer.

Or click and drag the selected signal source to the editing area, and then release the mouse to add a layer.

Figure 3-15 Add layers



Notes:

- For online devices, the size of each added layer created by dragging signal source is half of the input source resolution by default. For example, if the input source resolution is 1920×1080, the size of the added layer is 960×540.
- If the input source resolution is smaller than 800×600, the layer resolution is 800×600 by default.
- For offline devices, the layer resolution is 800×600 by default.

Step 4 Adjust the layer, such as position and size.

- Hover the mouse over the edge of a layer. When the mouse pointer changes into a double arrow, press and hold down the left mouse button, move the mouse to adjust the size of the layer.
- Move the mouse within a layer, press and hold down the left mouse button, drag the layer to move it to any position.
- When you hover the mouse over the layer, some function buttons appear at the top right of the layer. The functions of the buttons are as described in Table 3-1.

Table 3-1 Layer buttons

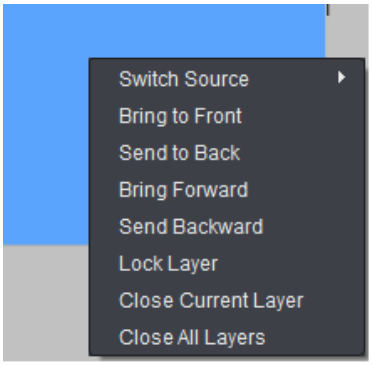
Icon	Description
	Click this icon to make the layer fill the area loaded by the output connectors where the layer locates. Click this icon again to make the layer fill the whole screen.
	Click this icon to make the layer fill the whole screen.
	Click this icon to exit the full screen and restore the layer to its original size and position.

Icon	Description
✕	Click this icon to close the layer.
🔓	Click this icon to unlock the layer.
🔒	Click this icon to lock the layer. After the layer is locked, the layer properties cannot be set.
⤡	Click this icon to make the layer display the input source image in pixel-to-pixel mode.

Note:

In image mosaic mode, a layer can be locked, unlocked and closed only.

- When a layer is locked, right click the layer and select **Unlock Layer** to unlock it.
- The right-click context menu allows you to perform the following operations.



  - Select **Switch Source** to switch the input source of the selected layer.
  - Select **Bring to Front** to send the selected layer to the top.
  - Select **Send to Back** to send the selected layer to the bottom.
  - Select **Bring Forward** or **Send Backward** to move the selected layer one level up or down.
  - Select **Lock Layer** or **Unlock Layer** to lock or unlock the selected layer.
  - Select **Close Current Layer** to close the selected layer.
  - Select **Close All Layers** to close all the layers.

3.1.7 Switch Layer Input Sources

If you want to switch the layer input source, but keep the layer size and position, simply use this function to quickly switch the source.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

None

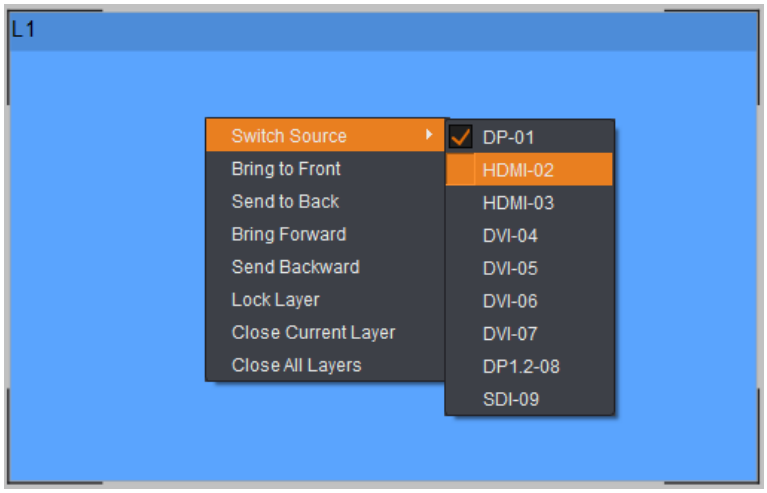
Prerequisites

You have added a layer.

Operating Procedure

Step 1 Right click the layer and select **Switch Source** from the context menu that appears. All input sources of the device will be listed.

Figure 3-16 Switch layer input sources



Step 2 Scroll up or down to select the target source to complete the switching.

3.1.8 Set Layer Properties

You can make precise adjustments to the layers.

3.1.8.1 Adjust Layer Layout

After a layer is selected, go to **Layout** on the right pane to adjust the layer aspect ratio, position and size, as well as cropping.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

- BKG does not support property settings.
- OSD supports position adjustment only.

Prerequisites

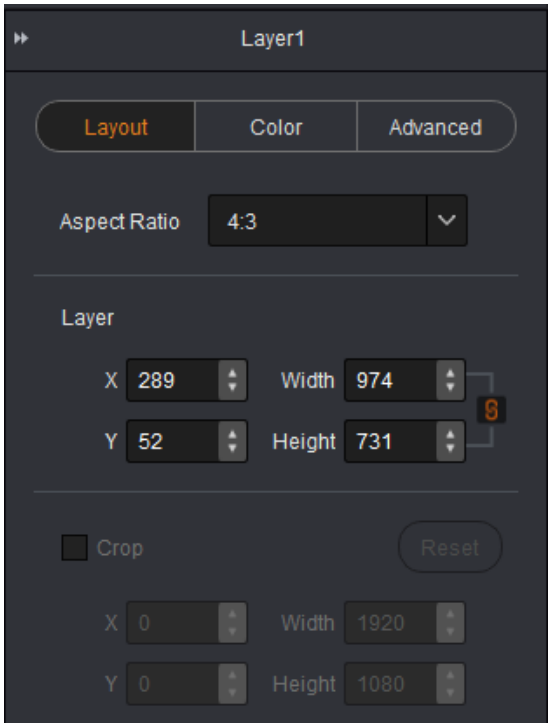
You have added a layer.

Operating Procedure

Step 1 Select the target layer.

Step 2 Click **Layout** on the right pane to show the layout settings as shown in Figure 3-17.

Figure 3-17 Layout



Step 3 Set the aspect ratio, size and position of the layer as required.

- Aspect Ratio: The ratio of layer width to height. You can select an existing ratio or customize a ratio.

  When you select an existing ratio, the lock icon next to the width and height text boxes are highlighted indicating the aspect ratio is locked. You can adjust either width or height to change the layer size with the aspect ratio unchanged.
- Layer: Freely adjust the layer position and size.
  - X: Adjust the horizontal initial position of the layer on the screen.
  - Y: Adjust the vertical initial position of the layer on the screen.
  - Width: Adjust the layer width.
  - Height: Adjust the layer height.

    Click to lock the layer aspect ratio. At this time, only the width or height can be adjusted, and the other one will be calculated and adjusted automatically according to the aspect ratio you set.

3.1.8.2 Crop Input Source

You can crop the layer input source and only keep the desired part to be displayed.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

After the cropping, the cropped (left) part will be stretched to fill the whole layer.

Prerequisites

None

Operating Procedure

Step 1 Select the target layer.

Step 2 Click **Layout** to show the layout settings as shown in Figure 3-17.

Step 3 Select **Crop** to enable the input source cropping function.

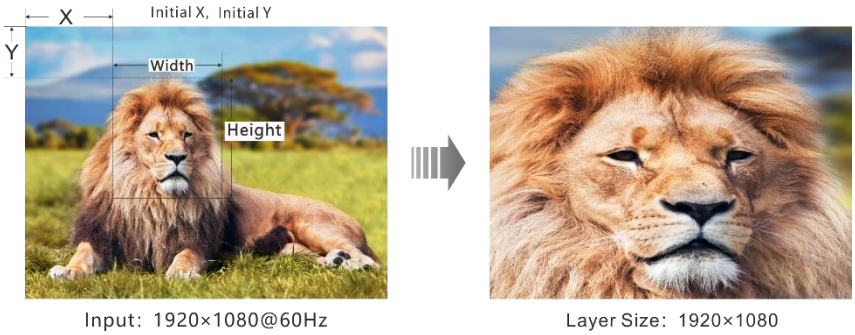
Step 4 Adjust **X** and **Y** to precisely set the starting position for the cropping. The cropping reference is the top left corner of the layer image.

- X: Set the horizontal initial position for the cropping.
- Y: Set the vertical initial position for the cropping.

Step 5 Adjust **Width** and **Height** to precisely set the size of the cropped part.

- Width: Set the image width after cropping.
- Height: Set the image height after cropping.

Figure 3-18 Crop input source



Click **Reset** to reset all the cropping parameters to defaults.

3.1.8.3 Adjust Layer Color

You can adjust the brightness, contrast, hue, saturation and opacity of the layer image.

Applicable Products

VX1000, VX600, VX400, J6, VS7, N9, VC10, VC6, VCDSP400, DSP600

Notes

- The VX1000, VX600, VC6, VC10, DSP400, DSP600 and VX400 support layer opacity adjustment only.
- The J6, VS7 and N9 support layer brightness, contrast, hue and saturation adjustments.

Prerequisites

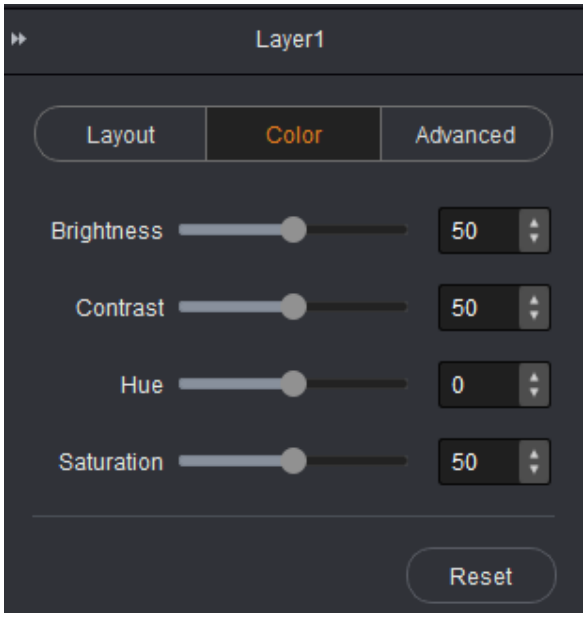
You have added a layer.

Operating Procedure

Step 1 Select the target layer.

Step 2 Click **Color** on the right pane to show the color settings as shown in Figure 3-19.

Figure 3-19 Color



Step 3 Drag the slider, enter a value in the text box or click the up or down arrow next to the text box to set the desired parameter value.

3.1.8.4 Set Layer Border

You can enable the layer border function and set a border effect for the layer. When multiple layers have been added, borders may help you quickly position and distinguish the target layer.

Applicable Products

- J6 V3.0.0 or later
- VS7 V3.0.0 or later

Notes

None

Prerequisites

You have added a layer.

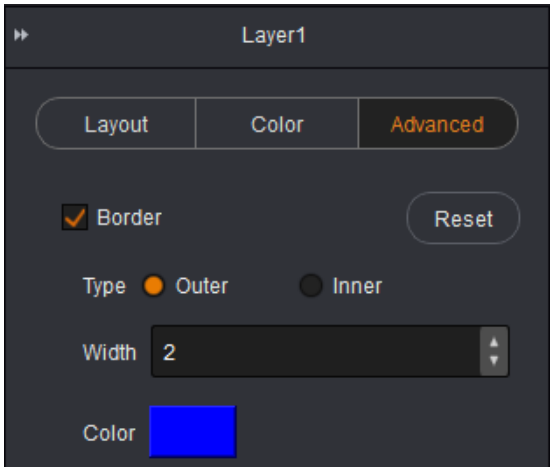
Operating Procedure

Step 1 Select the target layer.

Step 2 Click **Advanced** on the right pane to show the advanced settings as shown in Figure 3-20.

Step 3 Select **Border** to enable the layer border function.

Figure 3-20 Layer border



Step 4 Select the layer border type. **Inner** and **Outer** options are provided.

- Outer: The border that locates outside the layer area
- Inner: The border that locates inside the layer area

Step 5 Set the layer border width.

The border width (unit: pixel) ranges from 0 to 16 and defaults to 2.

Step 6 Set the layer border color.

Click the color block next to **Color** and select the desired color in the window that appears.

3.1.8.5 Copy Layers

When you need to display the same content on both screen synchronously, simply use this function. Layer cloning and mirroring do not occupy layer resources.

Applicable Products

N9

Notes

- The original layer and the cloned/mirrored layer cannot be placed on the screen loaded by the same connector.
- The input source and color of the cloned/mirrored layer are the same as those of the original layer.
- When the mosaic layout is 1×2, 1×3, 1×4 or 2×2, layer cloning and mirroring functions are supported.
- When the original layer moves, the original layer and the cloned/mirrored layer will move together vertically.
- When the size of the original layer is adjusted, the size of the cloned/mirrored layer will keep the same with that of the original layer.

Prerequisites

- You have added a layer.
- The connector mosaic layout must be 1×2, 1×3, 1×4 or 2×2.

Operating Procedure

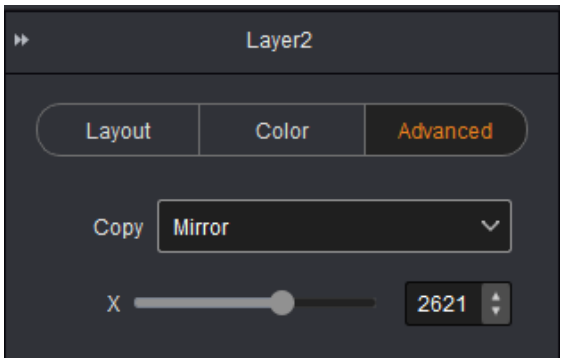
Step 1 Select the target layer.

Step 2 Click **Advanced** on the right pane to show the advanced settings.

Step 3 Select **Clone** or **Mirror** from the drop-down list next to **Copy**.

- Clone: Create a copy for the selected layer. The two layers have the same size, but in a symmetric position with the respect to the screen center. The new layer and original layer display exactly the same image.
- Mirror: Create a mirrored layer for the selected layer. The two layers have the same size, but in a symmetric position with the respect to the screen center. The new layer displays the mirrored image.
- Off: Turn off the copying function and delete the cloned or mirrored layer.

Figure 3-21 Copy layers



Step 4 Drag the slider next to **X** to adjust the horizontal coordinate of the cloned or mirrored layer.

3.1.8.6 Set Layer Keying

When you key out a value, all pixels that have colors or luminance values similar to that value become transparent.
Keying makes it easy to replace a background, which is especially useful when you work with objects too complex to mask easily. When you place a keyed layer over another layer, the result forms a composite, in which the background is visible wherever the keyed layer is transparent.

Applicable Products

N9 V2.1.0.0 or later

Notes

None

Prerequisites

- You have added a layer.
- You have connected an external monitor.

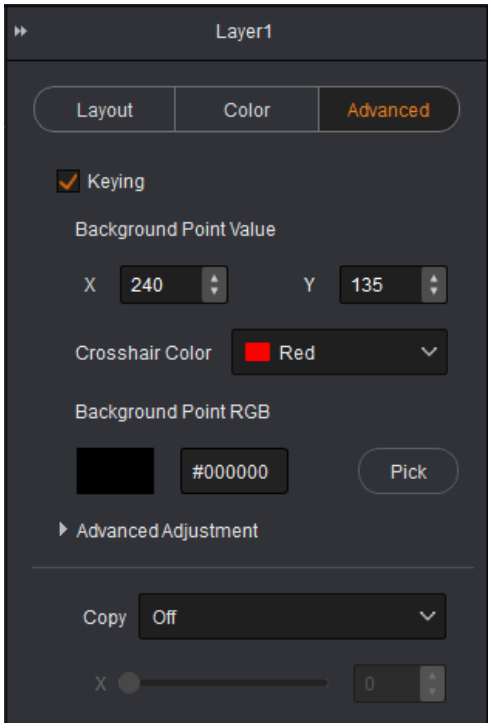
Operating Procedure

Step 1 Select the target layer.

Step 2 Click **Advanced** on the right pane to show the advanced settings.

Step 3 Select **Keying** to enable this function.

Figure 3-22 Keying



Step 4 Set **X** and **Y** in the **Background Point Value** area to set the position of the color to be keyed.

At this time, a crosshair appears on the connected monitor for you to locate the color.

Step 5 Set the crosshair color.

It is recommended you set a color that is quite different from the input source image color, which would be easier for you to check the background point position.

Step 6 Click **Pick** to view the selected color and color value in the **Background Point RGB** area.

Step 7 (Optional) Go to **Advanced** > **Background Threshold** to set the background threshold value to perform keying more precisely.

The background threshold ranges from 0 to 100.
The green background ranges from 0 to 0.4 and defaults to 0.20. The adjustment stepping is 0.01.

Step 8 (Optional) Go to **Advanced** > **Foreground Threshold** to set the foreground threshold value to perform keying more precisely.

The foreground threshold ranges from 0 to 100.
The green background ranges from 15 to 25 and defaults to 20. The adjustment stepping is 0.01.

3.1.9 Set Transition Effects

Effects are the animation presented during image switching, such as fade in and fade out.

V-Can supports a variety of transition effects, providing you a more vivid and flexible visual experience. When different devices are connected, the transition effects may be different in quantity.

3.1.9.1 Set Transition Effects for Switching Sources

You can set the transition effect and duration for switching layer input sources.

A transition effect here refers to the animation presented when the layer input source is being switched to another.

Transition duration allows you to set the time the transition effect lasts.

Applicable Products

VX1000, VX600, VX400, J6, VS7, VC6, VC10, DSP400, DSP600

Notes

- The J6 supports transition settings under the splicer mode.
- The VX1000, VX600 and VX400 support transition settings under the video controller mode.

Prerequisites

You have added a layer.

Operating Procedure

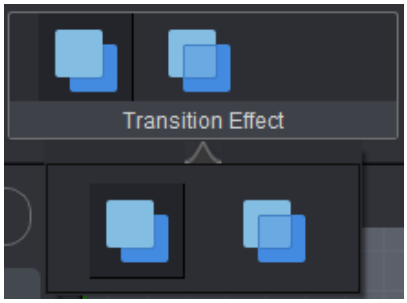
Step 1 Click **Programming** to enter the programming page.

Step 2 Click a transition effect icon in the transition effect area or click  below to show all the available effects.

Step 3 Select the desired transition effect.

Currently only **Cut** and **Fade** effects are supported.

Figure 3-23 Effects for switching sources



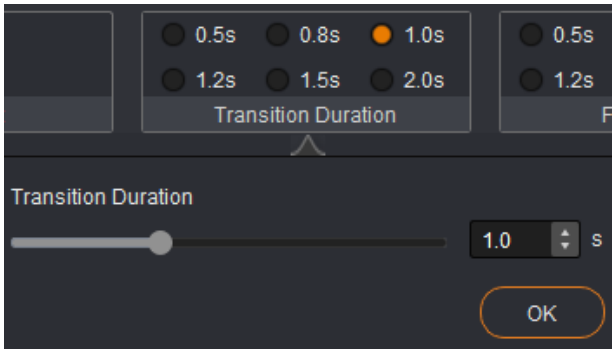
Step 4 Set the transition duration.

You can set the duration via either of the following ways.

- Select a time duration directly from the commonly-used duration list.
- Click  below **Transition Duration** and drag the slider to adjust the duration value, and then click **OK**.

  Click  below **Transition Duration** and set a duration value by either clicking the up or down arrow or entering a value in the text box, and then click **OK**.

Figure 3-24 Transition duration



The duration ranges from 0.5s to 2.0s and defaults to 1.0s.

3.1.9.2 Set Transition Effects for Take Operation

Transition effect here refers to the animation presented on the PGM layers when PVW is being sent to PGM by clicking TAKE.

Applicable Products

VX5s, VX6s, J6, N9

Notes

None

Prerequisites

You have set the system mode to Switcher.

Operating Procedure

Step 1 Click  above **TAKE** to show all the available effects.

Figure 3-25 Take effects

Step 2 Select the desired transition effect.

Currently only **Cut** and **Fade** effects are supported.

Step 3 Set the transition duration.

You can set the duration via either of the following ways.

- Enter a duration value in the text box above **TAKE**. The duration ranges from 0.5s to 2.0s and defaults to 1.0s.
- Click **+** or **-** to adjust the duration value.

3.1.10 Set FTB Duration

FTB duration refers to the lasting time the output image fades to totally black.

Applicable Products

VX1000, VX600, VX400, J6, VS7, N9, VC6, VC10, DSP400, DSP600

Notes

None

Prerequisites

Device version requirements:

- J6 V3.0.0.0 or later
- VS7 V3.0.0.0 or later
- N9 V2.1.0.0 or later

Operating Procedure

Step 1 Click **Programming** to enter the programming page.

Step 2 Set the FTB duration.

The duration value ranges from 0.5s to 2.0s.

You can set the duration via either of the following ways.

- Select a time duration directly from the commonly-used duration list.
- Click  below **FTB Duration** and drag the slider to adjust the duration value, and then click **OK**.
- Click  below **FTB Duration** and set a duration value by either clicking the up or down arrow or entering a value in the text box, and then click **OK**.

3.1.11 Set Sync Mode

When multiple devices are linked, the sync mode must be enabled. Synchronization between signal sources makes sure the display of the mosaic screen is intact and consistent.

When devices such as cameras are connected, enabling sync mode can effectively remove scan lines.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s, CMS260, VC6, VC10, VC16, VC24, DSP600, DSP400

Notes

None

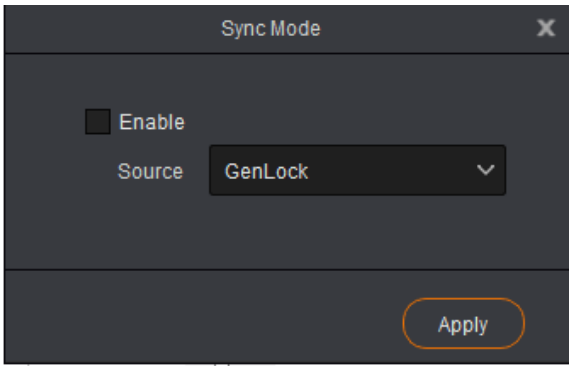
Prerequisites

When an external Genlock is used as the sync source, make sure you have connected the Genlock source to Genlock In connector on the device rear panel.

Operating Procedure

Step 1 Go to **Programming** > **Sync Mode** to open the synchronization settings window as shown in Figure 3-26.

Figure 3-26 Sync mode



Step 2 Select **Enable** to turn on the function.

Step 3 Select the desired sync source from the drop-down list next to **Source**.

- Genlock: Use an external signal source as the sync source.
- Other connectors: Use an internal input source as the sync source.

Step 4 Click **Apply** to complete the sync settings.

3.1.12 Set AUX

When the connected device supports auxiliary output function, you can set the input source for AUX output in V-Can.

Applicable Products

N9, J6

Notes

None

Prerequisites

The J6 supports AUX settings under the switcher mode.

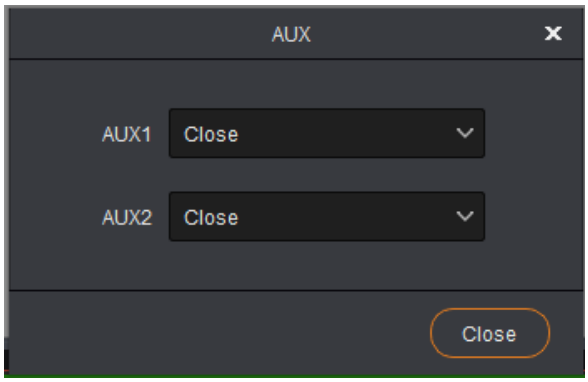
Operating Procedure

The following procedure takes the N9 as an example to illustrate.

- For N9 versions earlier than V2.1.0.0,

Step 1 Go to **Programming** > **AUX** to open the AUX settings window as shown in Figure 3-27.

Figure 3-27 AUX settings

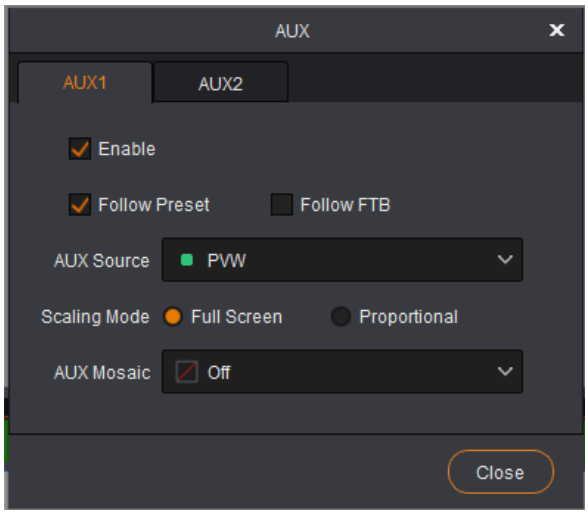


Step 2 Select the input sources for AUX 1 and AUX 2 respectively from the drop-down lists next to **AUX1** and **AUX2**.

- For N9 V2.1.0.0 and later versions,

Step 1 Go to **Programming** > **AUX** to open the AUX settings window as shown in Figure 3-28.

Figure 3-28 AUX settings



Step 2 Click the **AUX1** or **AUX2** tab to show the respective settings.

Step 3 Select **Enable** to enable the AUX function.

Step 4 Select the desired input source for AUX from the drop-down list next to **AUX Source**.

Step 5 Check or uncheck the box next to **Follow Preset**.

- Selected: After the AUX is changed, you need to click **TAKE** or **CUT** to send the changed information to the AUX screen.
- Deselected: After the AUX is changed, the changed information will be sent to AUX screen directly.

Step 6 Check or uncheck the box next to **Follow FTB**.

- Selected: If the LED screen fades to black, the AUX will follow the screen to fade to black.

- Deselected: If the LED screen fades to black, the AUX will not follow the screen to fade to black.

Step 7 Set the AUX scaling mode.

- Full Screen: Make the AUX output image display in full screen.
- Proportional: Scale the AUX output image proportionally based on the aspect ratio of the input source, and then display the image in full screen (with image width or height display in full size).

Step 8 Set the AUX mosaic layout.

- Off: Disable the AUX mosaic output. At this time, AUX 1 and AUX 2 can be set respectively.
-  /  : Select a desired mosaic layout. At this time, AUX 2 cannot be set.

3.1.13 Set HDR

HDR is the abbreviation for High-Dynamic Range. HDR function can greatly enhance the display image quality, allowing for a more clear and vivid image when the device is used together with NovaStar A8s receiving cards.

Applicable Products

NovaPro UHD Jr

Notes

- Currently only HDR10 video sources are supported.
- When the HDR function is enabled, the device loading capacity will be reduced by 50%.

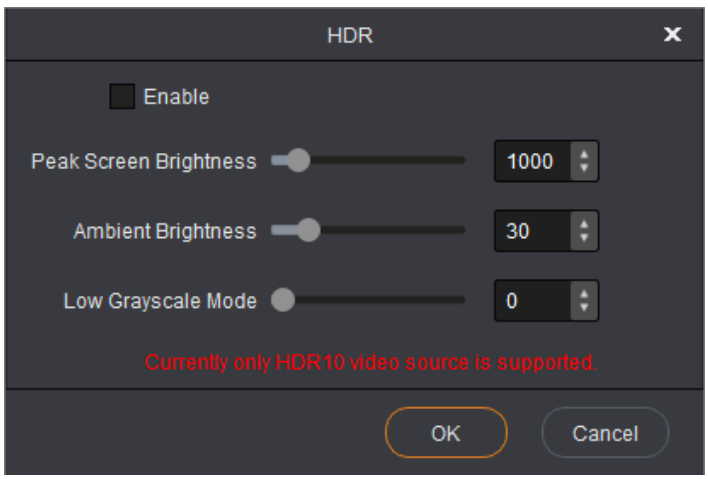
Prerequisites

None

Operating Procedure

Step 1 Go to **Programming** > **HDR** to open the HDR settings window as shown in Figure 3-29.

Figure 3-29 HDR settings



Step 2 Select **Enable** to turn on the HDR function.

Step 3 Adjust the HDR-related parameters to fine tune the image display.

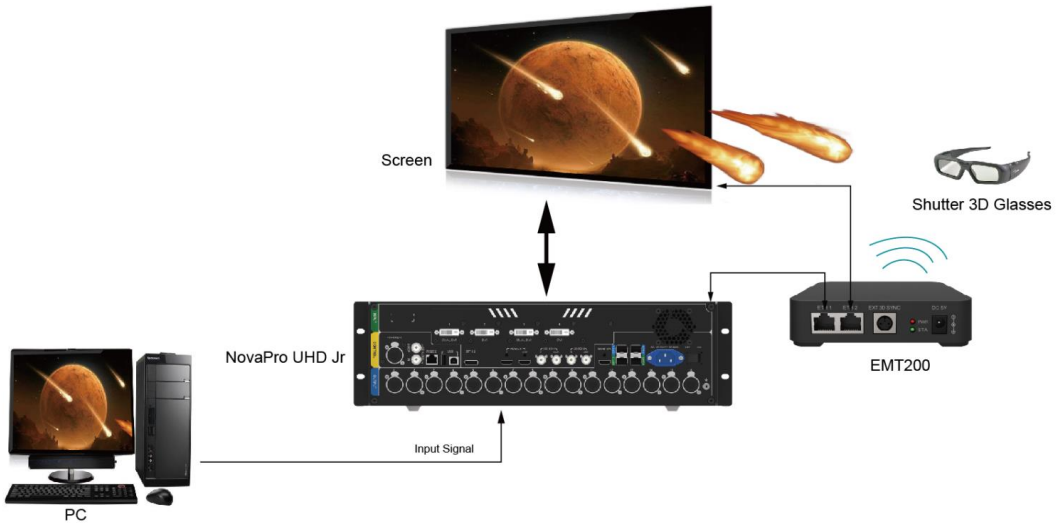
- Peak Screen Brightness: Set the screen brightness under normal operation. The value ranges from 100 to 10000 and defaults to 1000.
- Ambient Brightness: Set the brightness of the surrounding environment where the screen locates. This brightness value can be measured. The value ranges from 0 to 200 and defaults to 30.
- Low Grayscale Mode: Set the grayscale value of the image displayed on the screen. The value ranges from 0 to 50 and defaults to 15.

Step 4 Click **OK** to complete the HDR parameter settings.

3.1.14 Set 3D

Work with NovaStar EMT200 3D transmitter and matched 3D glasses to present you 3D visual experience.

Figure 3-30 3D solution architecture



Applicable Products

NovaPro UHD Jr, VX16s, VX1000

Notes

- When the 3D function is enabled, the device loading capacity will be reduced by 50%.
- When the 3D function is enabled, only the main layer will be kept and other PIP will be closed automatically.
- 3D effect only works for the main layer.

Prerequisites

- Device version requirements:
  - NovaPro UHD Jr V1.2.1.1 or later
- To realize pixel-to-pixel 3D effect, the eye frame settings vary according to different 3D source formats.

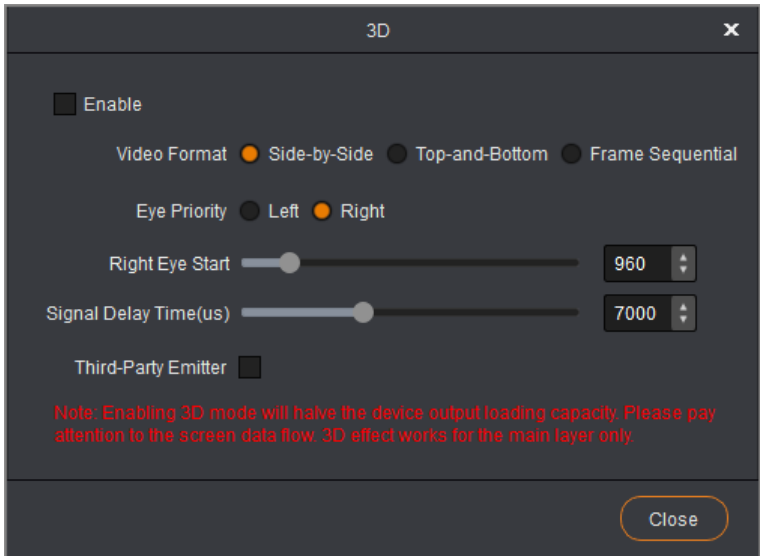
- Side-by-Side: Set the frame width to the half of the resolution width of the 3D source.
- Top-and-Bottom: Set the frame height to the half of the resolution height of the 3D source.

Operating Procedure

Step 1 Go to **Programming** > **3D** to open the 3D settings window.

Step 2 Select **Enable** to turn on the 3D function.

Figure 3-31 3D settings



Step 3 Select the 3D format of the video source. The options include **Side-by-Side**, **Top-and-Bottom** and **Frame Sequential**.

Step 4 Set the eye priority according to the mode of the 3D glasses. The options include **Left** and **Right**.

Step 5 Set the starting position for the right eye frame.

- Side-by-Side: 960 (default)
- Top-and-Bottom: 540 (default)
- Frame Sequential: unavailable

Step 6 Set the signal delay time.

Step 7 (Optional) If you use a third-party 3D emitter, select **Enable Third-Party Emitter**.

3.1.15 Preset Operations

3.1.15.1 Save Presets

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

Empty presets cannot be saved.

Prerequisites

You have added a layer.

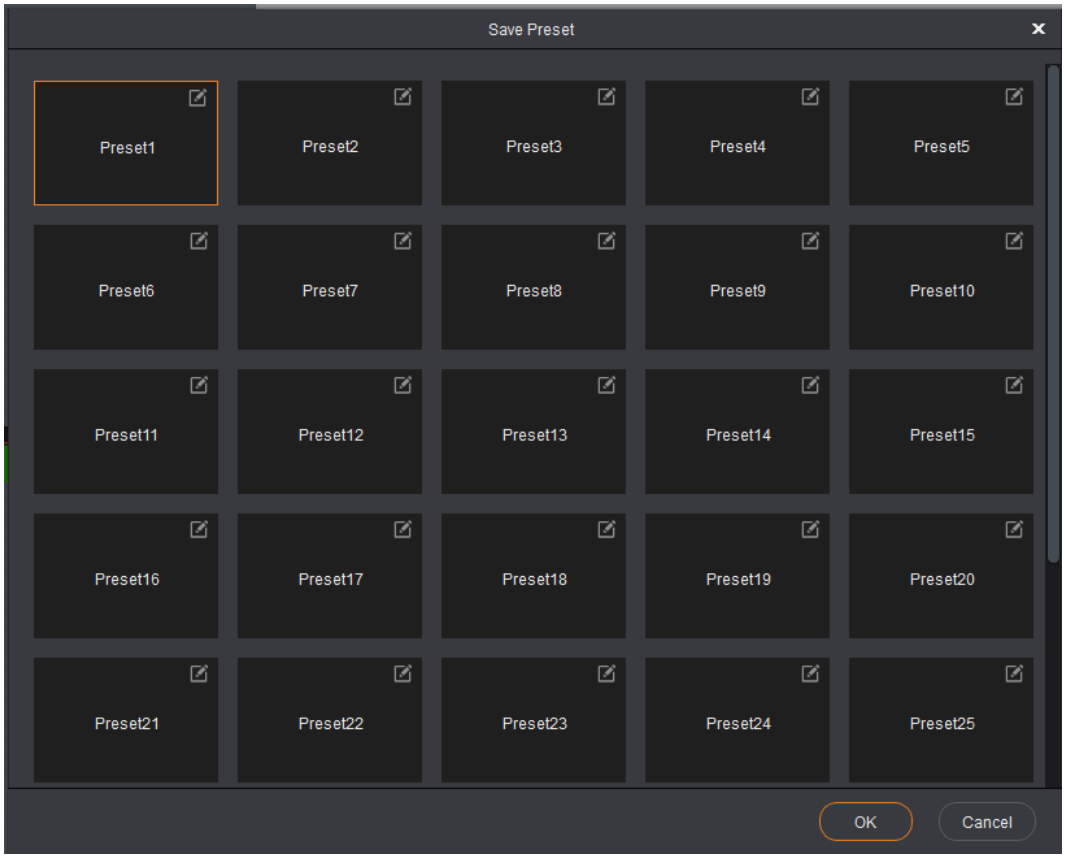
Operating Procedure

Step 1 Add and edit the layers in the video editing area.

Step 2 Click **Save Preset** at the top right of the area.

Step 3 Select the target preset in the window that appears.

Figure 3-32 Save presets



Step 4 Click **OK** to save the preset.

A saved preset will have a green bar at the bottom.

Note:

You can also go to **Programming** > **Preset** after the layer editing, and then right click an empty preset and select **Save** to save a new preset.

3.1.15.2 Load Presets

After the presets are successfully saved, you can quickly apply a layer layout and settings to the screen by loading a saved preset to the screen or PVW.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

None

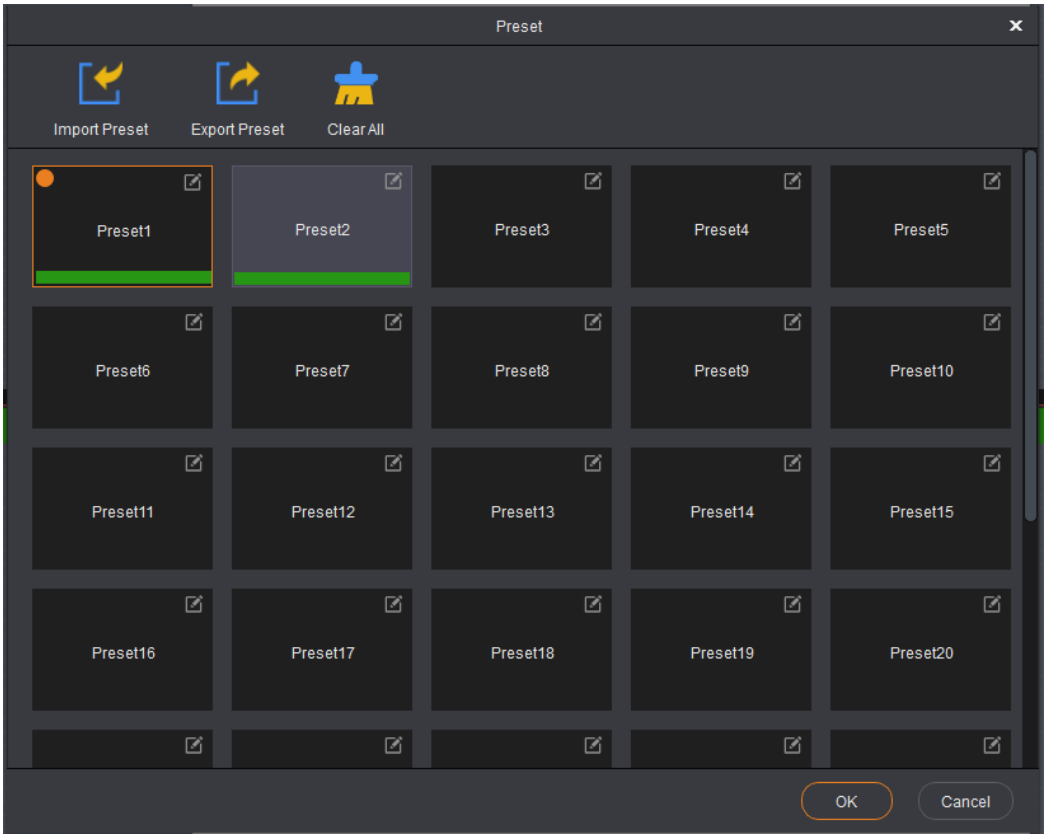
Prerequisites

You have saved a preset.

Operating Procedure

Step 1 Go to **Programming** > **Preset** to open the preset window.

Figure 3-33 Presets



Note:

- Preset with a green bar at the bottom is a saved preset, and others are empty presets which cannot be loaded.
- Right click a saved preset and select **Clear** to clear the data in the preset.

Step 2 Click a saved preset to load it to PVW or the screen.

Step 3 Click **OK** to close the preset window.

3.1.15.3 Rename Presets

After the presets are successfully saved, they are all named by preset n (n stands for a sequential number), which is not easy to distinguish. You can use this function to rename the preset according to your reference.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

- N9 V2.1.0.0 earlier version does not support the renaming function.
- Empty presets cannot be renamed.

Prerequisites

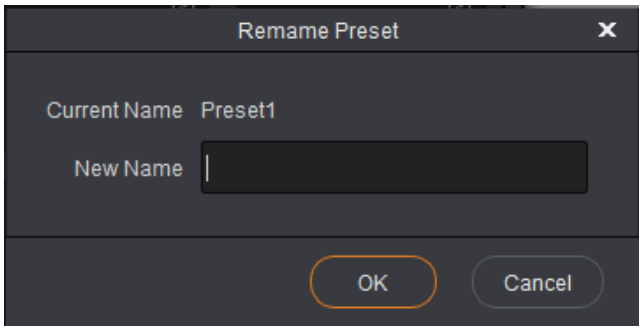
You have saved a preset.

Operating Procedure

Step 1 Go to **Programming** > **Preset** to open the preset window.

Step 2 Click  at the top right of a saved preset to open the preset renaming window.

Figure 3-34 Rename presets



Step 3 Click **OK** to complete the renaming.

3.1.15.4 Copy Presets

You can copy the layer layout and settings in a saved preset to a new preset.

Applicable Products

VX1000, VX600, VX400, NovaPro UHD Jr, VX16s, VS7, J6, N9, VC6, VC10, VC16, VC24, DSP400, DSP600

Notes

- VS7 V3.0.0.0 or later
- J6 V3.0.0.0 or later
- N9 V2.1.0.0 or later

Prerequisites

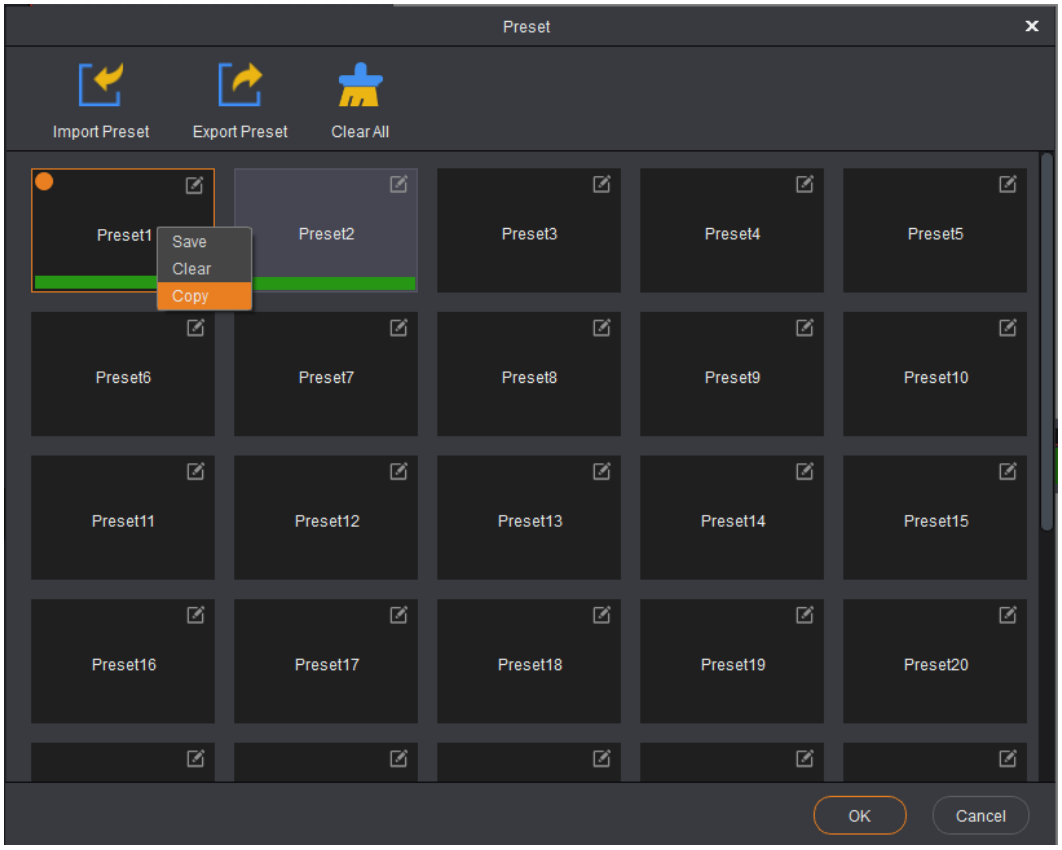
You have saved a preset.

Operating Procedure

Step 1 Go to **Programming** > **Preset** to open the preset window.

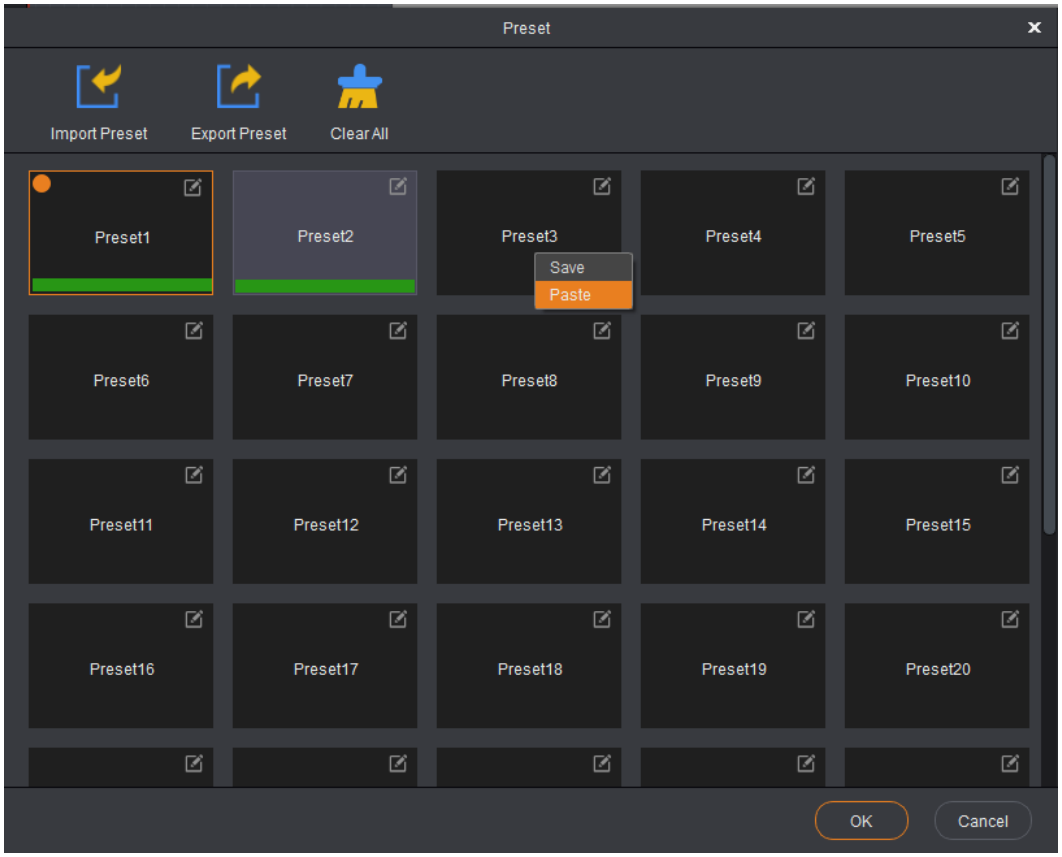
Step 2 Right click a saved preset and select **Copy**.

Figure 3-35 Copy presets



Step 3 Right click the target preset and select **Paste** to complete the copying.

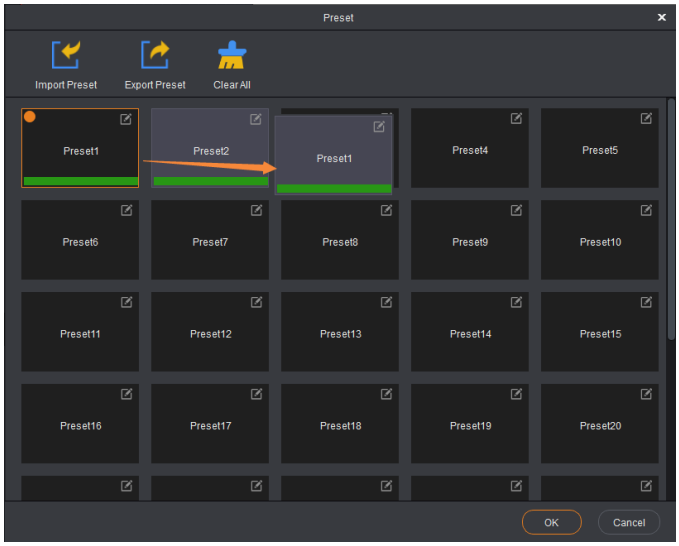
Figure 3-36 Paste presets



Note:

Quick copying:

Click a saved preset and drag it to the target preset, and then release the mouse to complete the copying.



3.1.15.5 Import/Export Presets

You can export the saved presets as independent preset files, and import them to another device when needed.

Applicable Products

VX1000, VX600, VX400, J6, VS7, N9, VC6, VC10, VC16, VC24, DSP400, DSP600

Notes

- J6 V3.0.0.0 or later
- VS7 V3.0.0.0 or later
- N9 V2.1.0.0 or later
- Presets can be imported to the devices of the same model only.

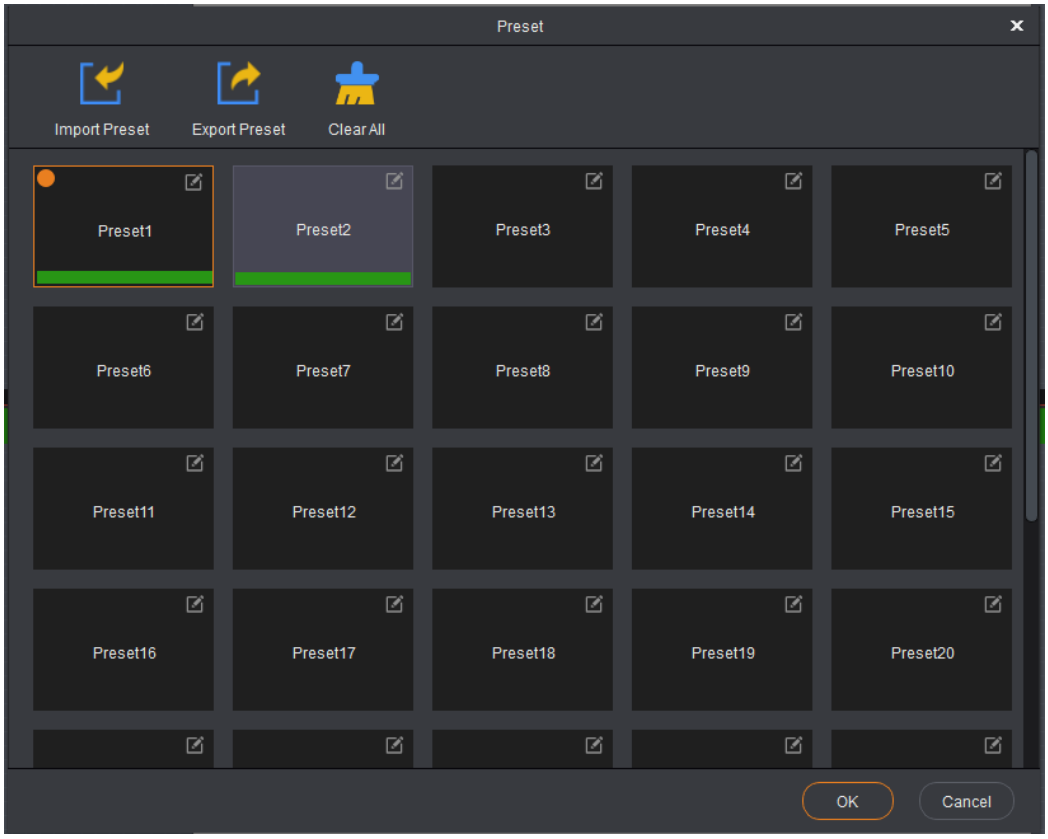
Prerequisites

None

Operating Procedure

Step 1 Go to **Programming** > **Preset** to open the preset window.

Figure 3-37 Presets



Step 2 Click **Import Preset** or **Export Preset**.

- Import Preset: Import the preset files to the current device, and the new presets will overwrite the existing ones.
- Export Preset: Export the presets to your local computer for future importing if needed.

Step 3 Select the target folder from the window that appears.

Step 4 Click **Browse** to complete the importing or exporting.

3.1.15.6 Play Presets

You can set the start time of the playback, and the presets will be played in turn according to your schedule.

Applicable Products

VS7

Notes

Only the VS7 V3.0.0.0 supports the preset playback function.

Prerequisites

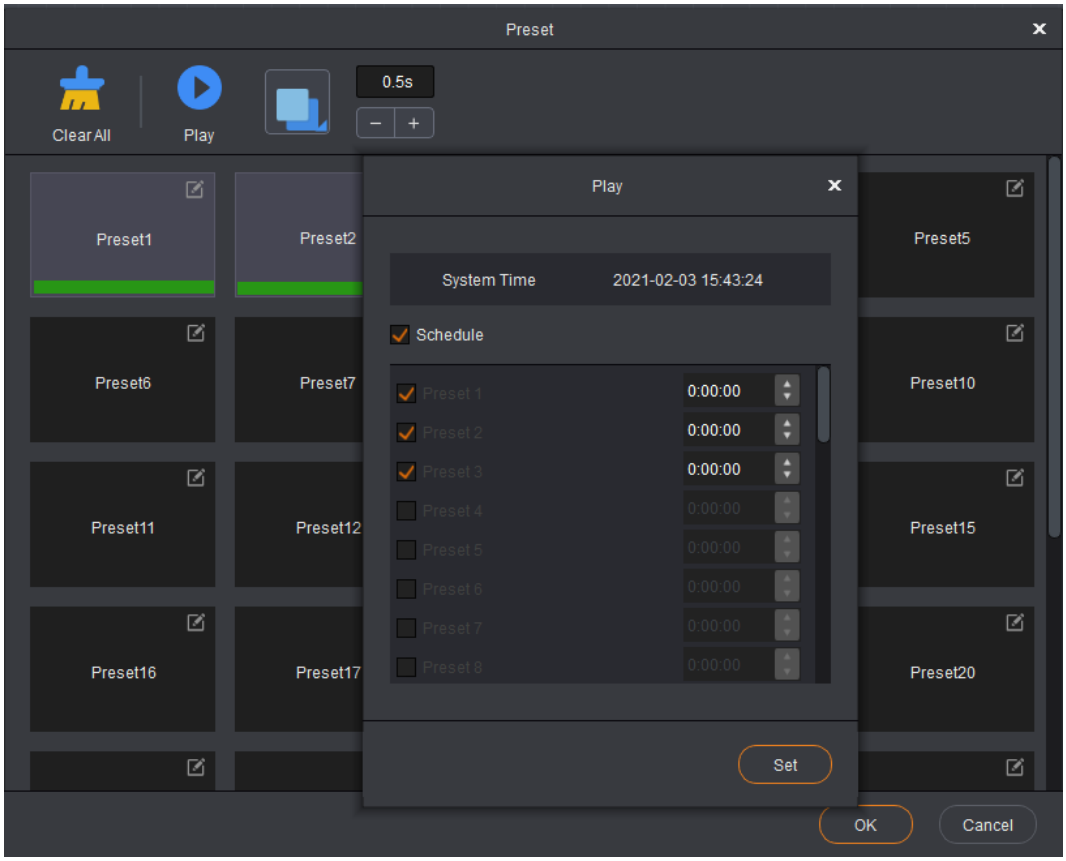
You have saved a preset.

Operating Procedure

Step 1 Go to **Programming** > **Preset** to open the preset window.

Step 2 Click **Play** to open the playback settings window.

Figure 3-38 Play presets



Step 3 Select **Schedule** to enable the scheduled playback function.

Step 4 Select the desired presets to be played.

Step 5 Set the start time for each preset.

Step 6 Click **Set** to complete the playback settings.

Step 7 Click **OK** to close the playback window.

3.1.15.7 Set Transition Effects for Switching Presets

You can set the animation presented when a preset is being switched to another. Currently only **Cut** and **Fade** effects are supported.

Applicable Products

VS7, J6

Notes

The J6 supports transition settings for preset switching under the splicer mode.

Prerequisites

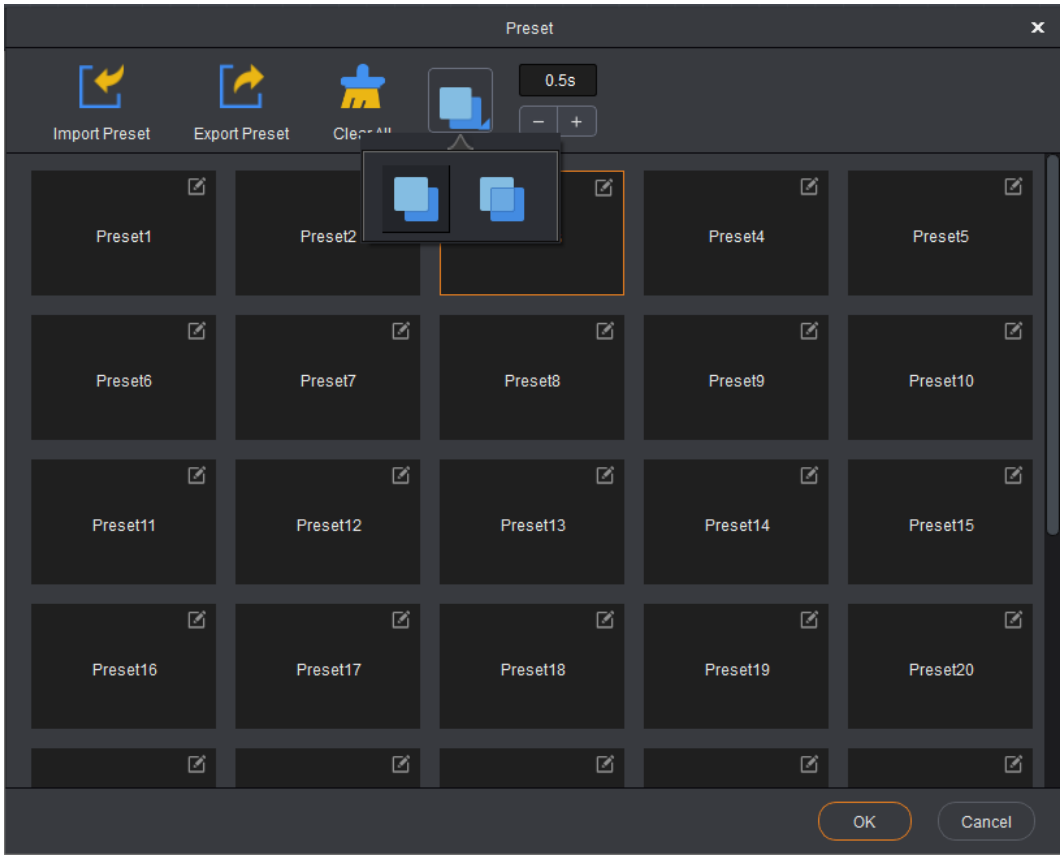
None

Operating Procedure

Step 1 Go to **Programming** > **Preset** to open the preset window.

Step 2 Click  to show all the available effects.

Figure 3-39 Transition effects for switching presets



Step 3 Select the desired transition effect.

Step 4 Set the transition duration.

Click **+** or **-** to adjust the duration.

Enter a duration value in the text box. The duration ranges from 0.5s to 2.0s and defaults to 0.5s.

3.2 OSD

3.2.1 Add BKG

BKG is the abbreviation for background. BKG has the lowest priority and cannot be adjusted.

Applicable Products

J6, VS7, N9, NovaPro UHD Jr

Notes

- BKG locates at the bottom layer.

- BKG fills the whole screen. BKG position and size cannot be adjusted.

Prerequisites

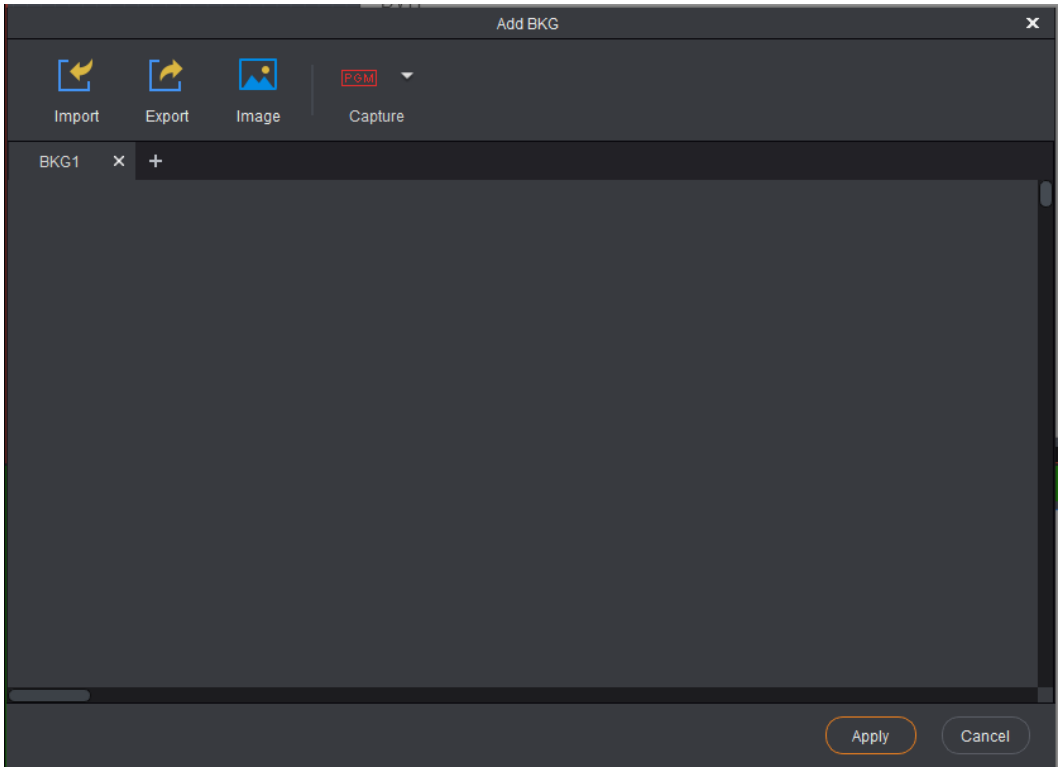
None

3.2.1.1 Add BKG Images

Step 1 Click **OSD** to enter the OSD and BKG settings page.

Step 2 Click  in the BKG area to open the BKG settings window.

Figure 3-40 Add BKG

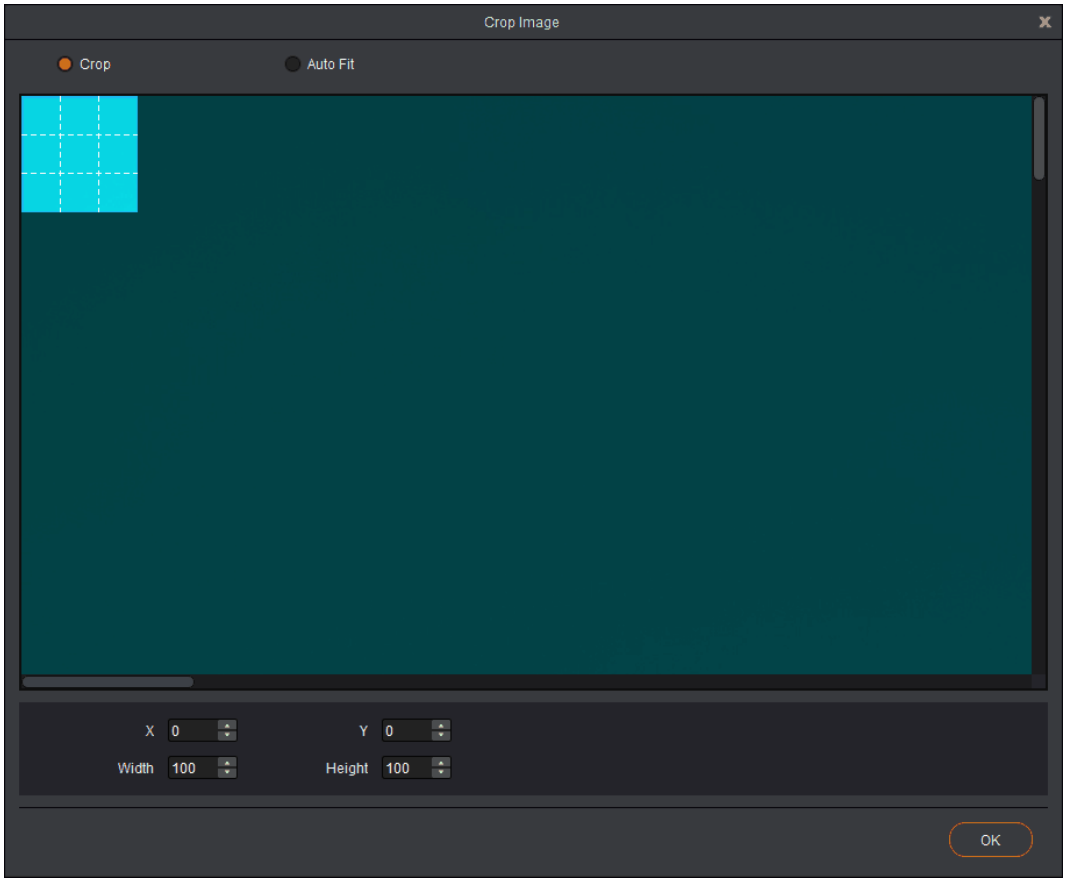


Step 3 Click **Image** to select the desired image on your local computer.

Step 4 Click **Open** to add the image.

- If the image size is greater than the screen resolution, the below window appears as shown in Figure 3-41. The dotted box indicates the cropped area.
  1. Hover the mouse over the edge of the dotted box. When the mouse pointer changes into a double arrow, click and drag the box to adjust the size of the cropped area. You can also directly enter the values for **Width** and **Height** to adjust the size of the cropped area.
  2. Click and drag the dotted box to adjust the position of the cropped area. You can also directly enter the values for **X** and **Y** to adjust the position of the cropped area.
  3. After the settings, click **OK**.

Figure 3-41 Crop BKG

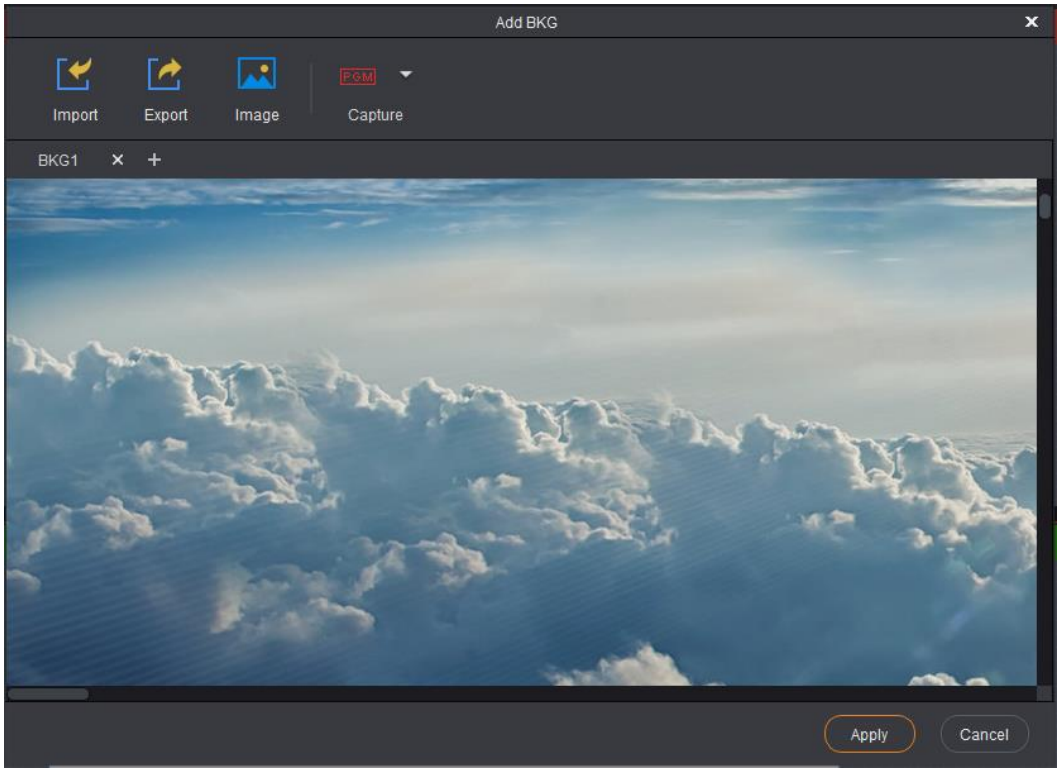


Note:

Select **Auto Fit** to make the image fill the whole screen.

- If the image size is smaller than the screen resolution, the image is added directly as shown in Figure 3-42.

Figure 3-42 Add BKG



Step 5 After the settings, click **Apply**.

3.2.1.2 Add Captured Image as BKG

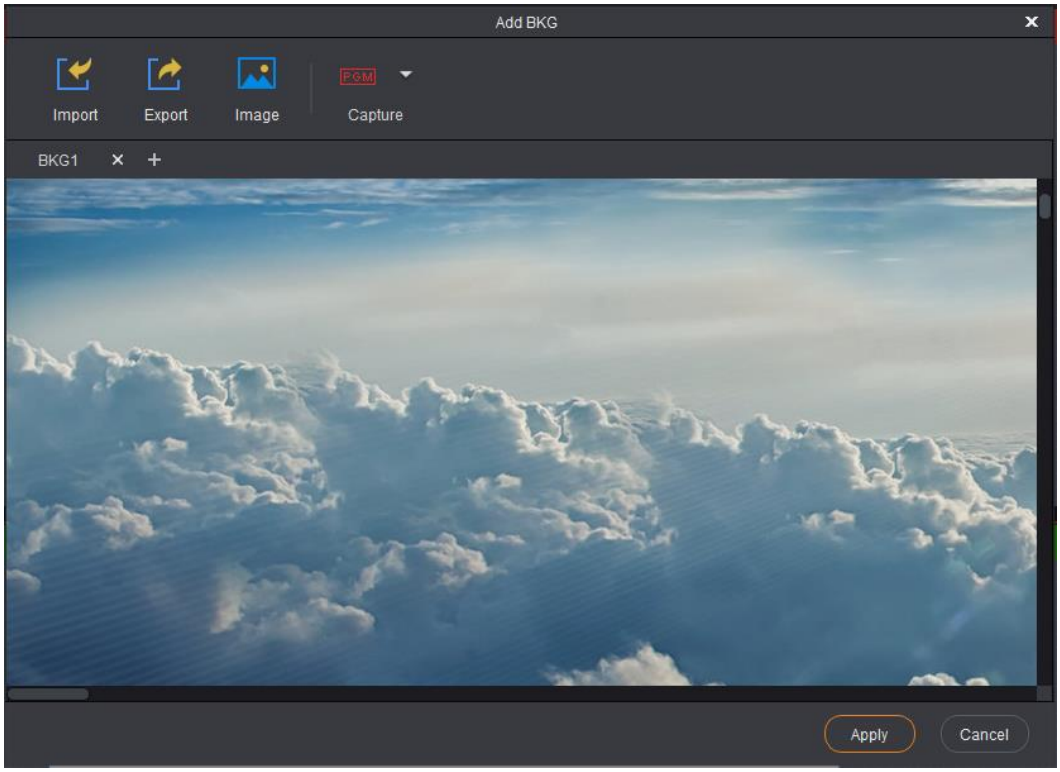
You can capture the current frame of the input source and save the captured image as a BKG image.

Step 1 Click **OSD** to enter the OSD and BKG settings page.

Step 2 Click  in the BKG area to open the BKG settings window.

Step 3 Click **Capture** to select the desired input source or PGM from the drop-down list, and the system will capture the input source or PGM image automatically.

Figure 3-43 Add captured image as BKG



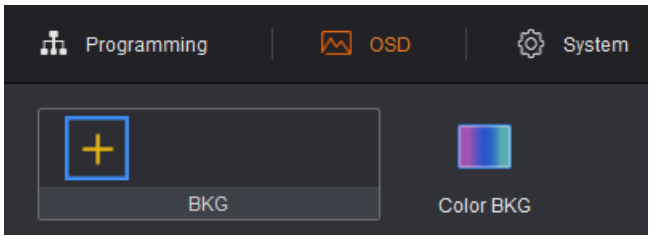
Right click the BKG area to select **Read Back**, **Read Back All** or **Delete** to perform corresponding operation to the BKG image.

- Read Back: Read the current BKG image back to V-Can.
- Read Back All: Read all the BKG images back to V-Can.
- Delete: Delete the current BKG image.

3.2.1.3 Add Pure Color BKG

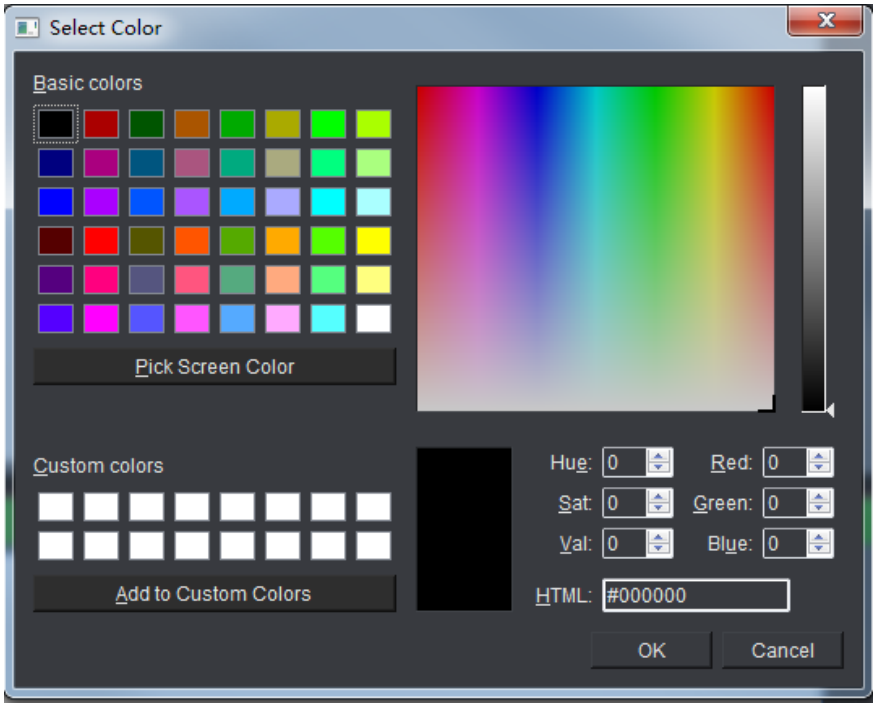
Step 1 Click **OSD** to enter the OSD and BKG settings page.

Figure 3-44 OSD menu



Step 2 Click **Color BKG** to open the BKG color settings window as shown in Figure 3-45.

Figure 3-45 Select BKG color



Step 3 Select the desired color.

Step 4 After the settings, click **OK**.

3.2.1.4 Import/Export BKG

You can export the configured BKG files to your local computer and import them back again when needed.

Note:

N9 V2.1.0.0 or later version supports BKG importing and exporting functions.

J6 and VS7 V3.0.0.0 or later version support BKG importing and exporting functions.

3.2.2 Add BKG to Screen

Step 1 Click **OSD** to enter the OSD and BKG settings page.

Step 2 Click  or  to scroll through the added BKG images.

Click  to expand the BKG page to view all the available BKG images.

Step 3 Click a BKG thumbnail to add the BKG to screen.

Note:

When you add a pure color BKG, the selected color will be automatically added to the screen.

3.3 System

Click **System** to enter the system settings page.

3.3.1 Connect

When the device is disconnected from the control PC or you need to synchronize the device data, click **Connect** to restore the connection and perform the data synchronization.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

After you update the device in V-Can, you need to reconnect the device.

Prerequisites

You have connected the device to the control PC via an Ethernet cable or USB cable.

Operating Procedure

Step 1 Go to **System** > **Connect** and the system will automatically search for and connect the devices.

Step 2 Click **Device** on the left pane to view all the connected devices as shown in Figure 3-46.

Figure 3-46 Device list

Step 3 Click **Source** to view the connection statuses of the signal sources of the connected device.

3.3.2 Sync

V-Can allows you to read the configuration data of the current device and displays the device configuration data.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

None

Prerequisites

You have connected the device with V-Can.

Operating Procedure

Go to **System** > **Sync** and the system will automatically synchronize all the device information.

3.3.3 Firmware Update

You can view the versions of all the connected devices and select to update the desired ones.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

- The firmware version must match the device.
- To update the VX1000, VX600 or VX400, make sure the device is connected to the control PC via Ethernet cable.
- After the update, please go to **System** > **Connect** to reconnect the device.

Prerequisites

- You have connected the device with V-Can.
- You have obtained the software version that matches with the device.

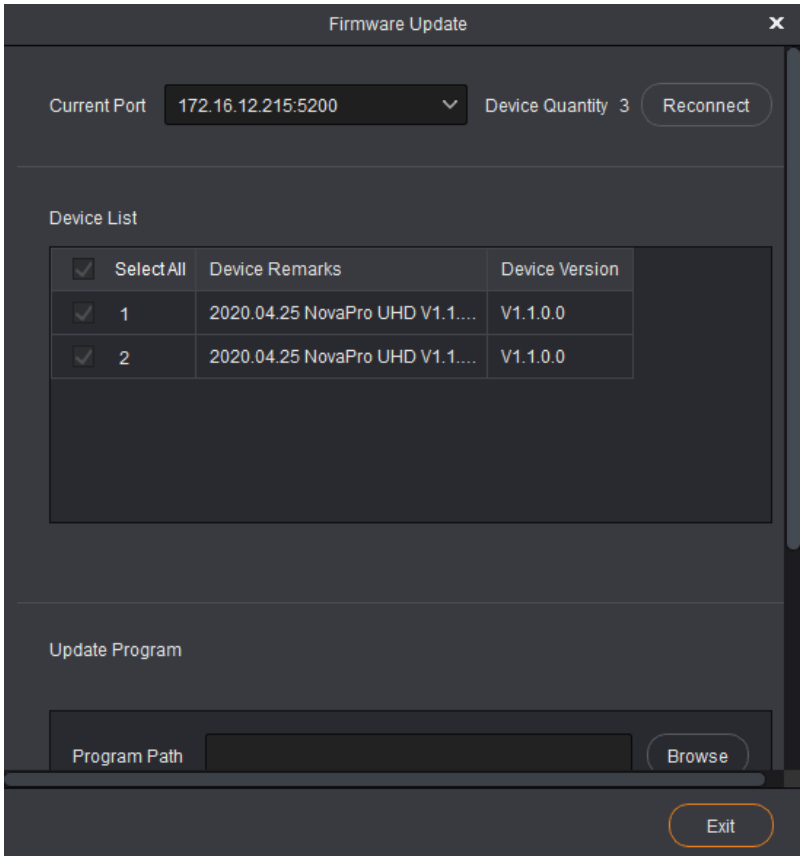
Operating Procedure

- View the device versions.

  Go to **System** > **Firmware Update** to view all the version information of the connected device in the window that appears.
- Update the firmware.

Step 1 Go to **System** > **Firmware Update** to open the update window.

Figure 3-47 Firmware update



Step 2 Select the desired communication port.

If multiple devices are connected to V-Can, select the desired port for the device connection from the drop-down list next to **Current Port**.

If multiple devices are cascaded, V-Can will automatically read the quantity of connected devices and show the quantity in **Device Quantity**. **Device List** shows the device versions, MCU versions, FPGA versions, gallery versions and font versions of all the connected devices.

Step 3 Click **Browse** to select the version that has been downloaded to your local PC from the window appears.

Step 4 Click **Update** to update the firmware of the connected device.

Note:

Click **Advanced** and type "admin" to enter the advanced mode where you can update the device MCU, FPGA_A, FPGA_B, gallery and text font.

The VX1000, VX600 and VX400 do not support the advanced mode.

3.3.4 Diagnostics

The diagnostics function helps you to diagnose the system and troubleshoot the malfunctioned device components.

You can export the device running logs to the control PC to help the developers quickly locate the problems and track the problems for analysis.

Applicable Products

VX1000, VX600, VX400

Notes

- Running diagnostics may interrupt the device output. After the diagnostics, the output will resume immediately.
- To export the logs, make sure the device is connected to the control PC via Ethernet cable.

Prerequisites

- You have connected the device to the control PC.
- You have connected the necessary inputs and outputs for the device.

3.3.4.1 Parameter Test

Step 1 Go to **System** > **Diagnostics** > **Parameter Test** to open the device parameter test window.

After the test, the system will show the test result.

Step 2 Click **OK** to complete the parameter test.

Click **Retry** to re-diagnose the device and show the test result.

3.3.4.2 Export Log

Step 1 Go to **System** > **Diagnostics** > **Export Log** to open the log exporting window.

Step 2 Select a local path to save the log.

Step 3 Name the log file.

Step 4 Click **Open** to complete the exporting.

Note:

The default name of the log file is "SN-year-month-day-log.tar". You can rename the file, but you cannot change the filename extension.

3.3.5 Backup

You can back up the device configuration to your local computer and restore it when needed.

Applicable Products

VX1000, VX600, VX400

Notes

You have connected the device to the control PC via Ethernet cable.

Prerequisites

- You have connected the device to the control PC.
- You have completed necessary device configuration.

Operating Procedure

Step 1 Go to **System** > **Backup** to open the backup window.

Step 2 Click **Export**.

Step 3 Select a local path to save the backup file.

Step 4 Name the backup file.

Step 5 Click **Open** to complete the backup.

Note:

The default name of the backup file is "Device model-YMD-hour-minute-uback.img". You can rename the file, but you cannot change the filename extension.

3.3.6 Restore

Restore the backup information on your local computer to the device for quick device configuration.

Applicable Products

VX1000, VX600, VX400

Notes

- The restoration must be done on the device of the same model with the device where you do the backup.
- You have connected the device to the control PC via Ethernet cable.
- After the restoration, the device will restart automatically.

Prerequisites

You have backed up a device configuration file.

Operating Procedure

Step 1 Go to **System** > **Restore** to open the restore window.

Step 2 Click **Import**.

Step 3 Select the local path where you save the backup file.

Step 4 Enter the name of the backup file.

Step 5 Click **Open** to complete the restoration.

3.3.7 Self-Test

You can use the built-in test patterns to check whether the display of the video wall connected to the current device is normal.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s, DSP400, DSP600, CMS260, VC16, VC24

Notes

None

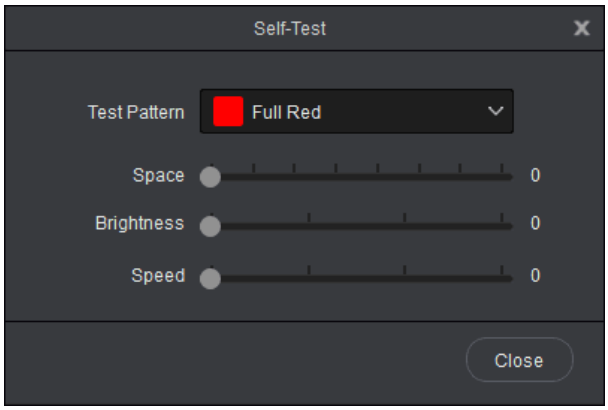
Prerequisites

- You have connected the device with V-Can.
- You have connected the device to the video display device.

Operating Procedure

Step 1 Go to **System** > **Self-Test** to open the test window.

Figure 3-48 Self-test



Step 2 Select the desired test pattern from the drop-down list next to **Test Pattern**.

Step 3 Set the space between lines, brightness and moving speed of the test pattern.

Step 4 Check whether the test patterns are displayed normally on the LED screen connected to the device.

- Yes => The LED screen functions well.
- No => The LED screen does not function well. Please calibrate the screen and test it again.

Step 5 Select **Normal** from the drop-down list next to **Test Pattern** or click **Close** to close the test pattern.

3.3.8 Reset

If you want to clear the device configuration data or user presets, this function helps you to reset the device to factory defaults.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

The reset options are different for different devices.

Prerequisites

You have connected the device with V-Can.

Operating Procedure

Step 1 Go to **System** > **Reset**.

Step 2 Read carefully the prompted message, and click **Yes** to reset the device.

3.3.9 Network

Before the device is connected to the control PC via Ethernet cable, make sure the device and control PC are on the same network segment.

Applicable Products

VX5s, VX6s, VX1000, VX600, VX400, J6, VS7, N9, NovaPro UHD Jr, VX16s

Notes

- Before you change the device IP address, make sure the device and control PC are on the same network segment.
- When the device IP changes, you need to reconnect the device.

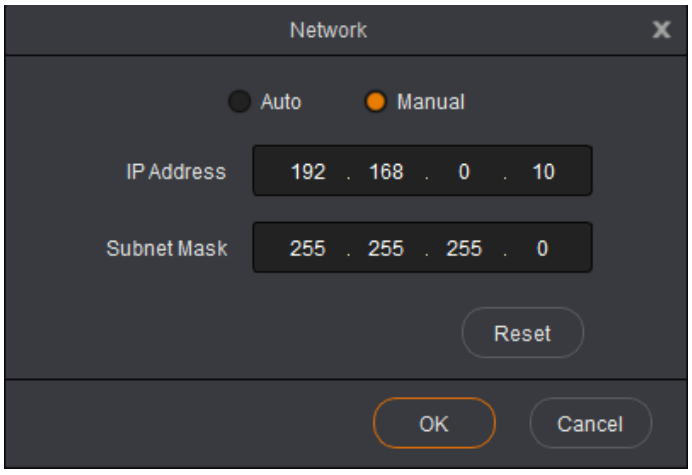
Prerequisites

You have connected the device to the control PC.

Operating Procedure

Step 1 Go to **System** > **Network** to open the network settings window.

Figure 3-49 Network settings



Step 2 Select the auto or manual mode.

- Auto => The device will automatically obtain an IP address and subnet mask.
- Manual => Go to Step 3.

Step 3 Enter the IP address and subnet mask.

Note:

The VX1000, VX600 and VX400 support gateway settings.

Step 4 Click **OK** to complete the network settings.

3.3.10 Language

Currently V-Can supports English and Simplified Chinese.

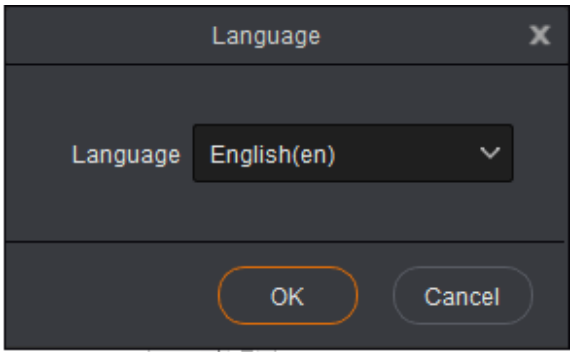
Notes

Language option here only allows you to set the UI language for V-Can, rather than set the language for the connected device.

Operating Procedure

Step 1 Go to **System** > **Language** to open the language settings window.

Figure 3-50 Language



Step 2 Select your preferred language.

Step 3 Click **OK** to complete the language settings.

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Official website
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VX1000 Pro

All-in-One Controller

Specifications

Change History

Document Version	Release Date	Description
V1.2.0	2025-09-30	• Added the description for the device standby mode. • Added the description for the dual receiving card backup. • Added the description for screen power-on and power-off through a remote control. • Added the description for the function of compatible with Mac. • Added the description for the Unico client software.
V1.1.1	2025-08-15	• Added the description for the OSD function. • Added the description for the remote control.
V1.0.2	2025-06-19	• Added the description for the connector capacity limitations. • Added the description for the flight case. • Add new language options for the device LCD menu, including Hindi, Spanish, French, Portuguese, Russian, Japanese, Korean, German, Vietnamese, Turkish, Thai and Indonesian.
V1.0.1	2025-03-05	Optimized the content.
V1.0.0	2025-01-06	First release

Introduction

The VX1000 Pro is an all-in-one controller combining video processing and video control functionalities into a single device. Equipped with 10 Ethernet ports, it supports three working modes: video controller, fiber converter, and ByPass. Capable of managing up to 6.5 million pixels, the VX1000 Pro can output at a maximum width of 10,240 pixels and a height of 8,192 pixels, making it perfectly suited for controlling ultra-wide and ultra-high LED screens on-site.

The VX1000 Pro boasts powerful video signal reception and processing capabilities, supporting a maximum resolution of 4K×2K@60Hz for video input. It can handle multiple video signal inputs and includes features like 6 layers, output scaling, low latency and pixel-level brightness and chroma calibration. These functions combine to deliver outstanding image display quality.

With various control options available, the VX1000 Pro can be operated via the front panel knob, NovaLCT, Unico and VICP app, providing you with a convenient and effortless control experience.

The VX1000 Pro is housed in an industrial-grade casing, which, combined with its powerful video processing and transmission capabilities, makes it robust and well-suited for complex operational environments. The VX1000 Pro is a perfect fit for medium and high-end rental, stage control systems and fine-pitch LED screens.

Certifications

CE, FCC, IC, PSE, RCM, EAC, UL, CB, KC, RoHS

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact NovaStar to confirm or address the problem. Otherwise, the customer shall be responsible for the legal risks caused or NovaStar has the right to claim compensation.

Features

Multiple connectors, free input and output

- A comprehensive range of input connectors
  - 1x HDMI 2.0 (IN & LOOP)
  - 2x HDMI 1.3
  - 1x 10G optical fiber port (OPT 1)
  - 1x 3G-SDI (IN & LOOP)
  - 1x USB 3.0 (Play images or videos saved in a USB drive.)
- Output connectors
  - 10x Gigabit Ethernet ports

    A single device supports up to 6.5 million pixels, delivering a maximum width of 10,240 pixels and a maximum height of 8192 pixels.
  - 2x Fiber outputs

    OPT 1 sends the output on Ethernet ports 1~10.

    OPT 2 copies or backs up the output on Ethernet ports 1~10.
  - 1x HDMI 1.3

    For monitoring display.
  - 1x 3D connector

Directly connect a third-party 3D emitter.

- Self-adaptive OPT 1 for either video input or sending card output

  Thanks to the self-adaptive design, OPT 1 can be used as either an input or output connector, depending on its connected device.

- Audio input and output
  - Audio input accompanied with HDMI sources
  - 3.5 mm independent audio input and output
  - Adjustable output volume
- Free topology

  Flexible screen configuration without rectangle restriction on a single Ethernet port. The maximum circumscribed rectangle of the large screen loaded by the device must be within the device loading capacity.

  *Specific receiving cards are required.

- Low latency

  By enabling the low latency feature and ByPass mode, the device delay can be reduced to 0 frame.

- Output synchronization

  An input source connected to the device's video connector or external Genlock source can be used as the sync source to ensure the output images of all cascaded units in sync.

- EDID management

  Import and export EDID files.

Diverse display possibilities for flexible configuration

- Easy preset saving and loading
  - Up to 256 user-defined presets supported
  - Load a preset by simply pressing one button.
  - Save, overwrite and delete a preset.
  - Preview the layer layout saved in the preset.
- Multiple layer display
  - Supports 6*2K×1K layer resources.

Users can create layers in three different specifications - 4K×2K, 4K×1K, and 2K×1K. These layers will use 4x, 2x, and 1x 2K layer resources respectively, depending on the capacity of the input source connector used to open the layers.

- Adjustable layer size and position
- Adjustable layer priority
- Adjustable aspect ratio

- OSD function
  - Supports the text OSD and image OSD. For the text OSD, four components are available, including static text OSD, dynamic text OSD, weather OSD and time OSD.
  - Supports customization of the text content, font, font color, size, opacity and background color.
  - Supports configuration of the scrolling direction, initial position and speed for the dynamic text OSD.
- 3D function
  - Traditional solution: Connect the EMT200 Pro 3D emitter to the device's Ethernet port, and use the compatible 3D glasses to enjoy a 3D visual experience.
  - New solution: Connect the third-party 3D emitter to the device 3D connector and use the compatible 3D glasses to enjoy a 3D visual experience.

  Note: When the 3D function is enabled and the video source format is **Side-by-Side** or **Top-and-Bottom**, the device output capacity will be halved.
- Personalized image scaling

  Supports three kinds of image scaling modes, including full screen, pixel to pixel and custom.
- Powerful video processing
  - Based on SuperView III image quality processing technologies to provide stepless output scaling.
  - One-click full screen display
  - Free input cropping
- Color adjustment

  Supports output color management, including brightness, saturation, contrast and hue.
- Pixel level brightness and chroma calibration

  Work with NovaLCT and NovaStar calibration software to support brightness and chroma calibration on each LED, which can effectively remove color discrepancies and greatly

improve LED display brightness and chroma consistency, allowing for better image quality. The function of displaying image on screen for test is also supported.

USB playback, timesaving and effortless

- Supports USB playback for instant plug-and-play convenience.

Multiple device modes and operation modes, convenient and efficient

- Various working modes
  - Video controller
  - Fiber converter
  - ByPass
- Multiple control options
  - Device front panel knob
  - Unico

    Both client software and web page control are supported.
  - NovaLCT
  - VICP app
  - Remote control (optional)

    Enable or disable the device standby mode, power on or power off the screen, adjust the screen brightness and output volume, switch presets, set the USB playback parameters, adjust the output image quality, switch layer input sources and set the 3D function through a remote control.

    *For the descriptions of the remote control buttons and functions, please refer to the user manual.

Data saving after power failure and backup design, stable and reliable

- End-to-end backup
  - Backup between devices
  - Backup between input sources
  - Backup between Ethernet ports
  - Backup up between OPT and Ethernet ports

  - Dual receiving card backup

- Ethernet port backup test

  Test whether the pre-stored images, backup Ethernet ports and devices take effect without plugging and unplugging the Ethernet cables.

- Data saving after power failure

  After a normal shutdown or unexpected power outage, reconnecting the power will automatically restore the previously saved settings on the device.

- 24/7 rigorous stability test under extreme high and low temperatures proved robust stability and reliability.

Table 4-1 Function limitations

Function	Limitation	Mutually Exclusive Function
3D	• Work with the matched 3D glasses. • When the 3D function is enabled and the video source format is **Side-by-Side** or **Top-and-Bottom**, the device output capacity will be halved.	Input crop
Low Latency	All cabinets loaded by Ethernet ports must be aligned at the top of the circumscribed rectangle.	Genlock: When the device works as a video controller, the low latency and Genlock are not exclusive. When the device works in ByPass mode, the two functions cannot be enabled simultaneously.
GENLOCK	N/A	Low latency: When the device works as a video controller, the low latency and Genlock are not exclusive. When the device works in ByPass mode, the two functions cannot be enabled simultaneously.
ByPass Mode	When the device works as an independent LED display controller, the video processing function is unavailable.	N/A
OSD	• The quantity of the text OSD components is as follows. – Static text OSD: 10 – Dynamic text OSD: 1 – Weather OSD: 2 – Time OSD: 2	Remote control

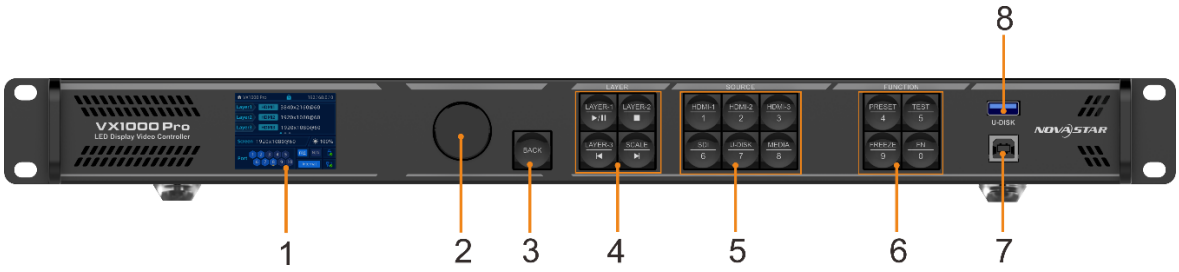
Function	Limitation	Mutually Exclusive Function
	• The text OSD and image OSD cannot be used together. • The dynamic text OSD and other text OSD components cannot be used together.	

Table 4-2 Latency at the VX1000 Pro

Working Mode	Low Latency (Unit: Frame)	Non-Low Latency (Unit: Frame)
Video controller	1~2	2~3
ByPass	0	1
Fiber converter	0	

Appearance

Front Panel



*The picture shown is for illustration purpose only. Actual product may vary due to product enhancement.

No.	Area	Function
1	LCD screen	Display the device status, menus, submenus and messages.
2	Knob	• Rotate the knob to select a menu item or adjust the parameter value. • Press the knob to confirm the setting or operation.
3	Back button	Exit the current menu or cancel the operation.
4	Layer buttons	Layer button description: • LAYER 1~3: Open or close a layer, and show the layer status. – On (blue): The layer is opened. – Flashing (blue): The layer is being edited. – On (white): The layer is closed.

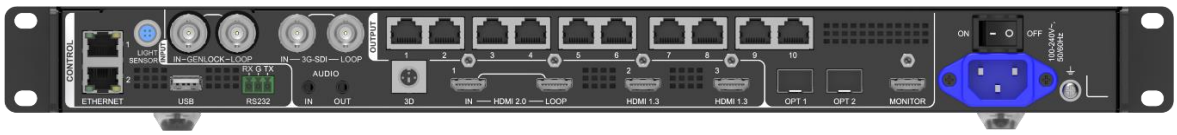
No.	Area	Function
		• When you play media files saved in a USB drive, the layer buttons are used to control the playback. – LAYER-1: This button is used to play or pause the files. – LAYER-2: This button is used to stop the playback. – LAYER-3: This button is used to play the previous file.
		• SCALE: A shortcut button for the full screen function. Press the button to make the layer of the lowest priority fill the entire screen. – On (blue): Full screen scaling is turned on. – On (white): Full screen scaling is turned off. • When you play media files saved in a USB drive, this button is used to play the next file.
5	Input source buttons	• Show the input source status and switch the layer input source. • Button indicators are used to indicate the working status of the input source signal. – On (blue): The input source has a signal. – Flashing (blue): The input source has no signals, but it is used by a layer. – On (white): The input source is not used, and no input signal is accessed. • U-DISK: USB source button Press the button to switch to a USB source, while hold down the button to enter the **Input Settings** screen. • MEDIA: USB player button Press the button to enter the **USB Player** screen. Note On the home screen, when layer 1 is opened, you can press the input source button to quickly switch the input source for layer 1.
6	Function buttons	• PRESET: Access the preset settings menu. • TEST: Access the test pattern menu. • FREEZE: Freeze/unfreeze the output image. • FN: A custom function button
7	USB	Connect to the PC installed with NovaLCT for device control.
8	U-DISK	1x USB 3.0 • Supports USB playback. – Single-partition USB drive supported

No.	Area	Function
		– File system: NTFS, FAT32 and exFAT – Max. width and height of media files Width: 3840 pixels, height: 2160 pixels – Picture format: jpg, jpeg, png and bmp – Decoded image resolution: 3840×2160 or lower – Video format: mp4, mkv, mov, avi, flv, m4v, mpg, mpeg, ts – Video coding: H.264, H.265, MPEG-2, MPEG-4 – Max. video frame rate: H.264: 3840×2160@30fps, H.265: 3840×2160@60fps MPEG-2/MPEG-4: 1920×1080@60fps – Max bitrate: H.264/H.265: 100Mbps MPEG-2/MPEG-4: 50Mbps – Audio coding: AAC, AC3, DTS, MP3, DVD, DVD_LPCM, MP2, OPUS – Audio sampling rate: opus: 24kHz, 48kHz Other formats: 22.05kHz to 94kHz – Transition effect of image switching: Ripple, zoom in, cut out, flip, blinds, H wipe, V wipe, cube, dissolve, grid, swapping, scroll, fade in/out, twirl, heart trans, doorway, perspective triangle, disappear, bounce, pinwheel, random **Note** The resolution of a USB source is fixed at 1920×1080@60Hz.

Note

Hold down the knob and **BACK** button simultaneously for 3s or longer to lock or unlock the front panel buttons.

Rear Panel



*The picture shown is for illustration purpose only. Actual product may vary due to product enhancement.

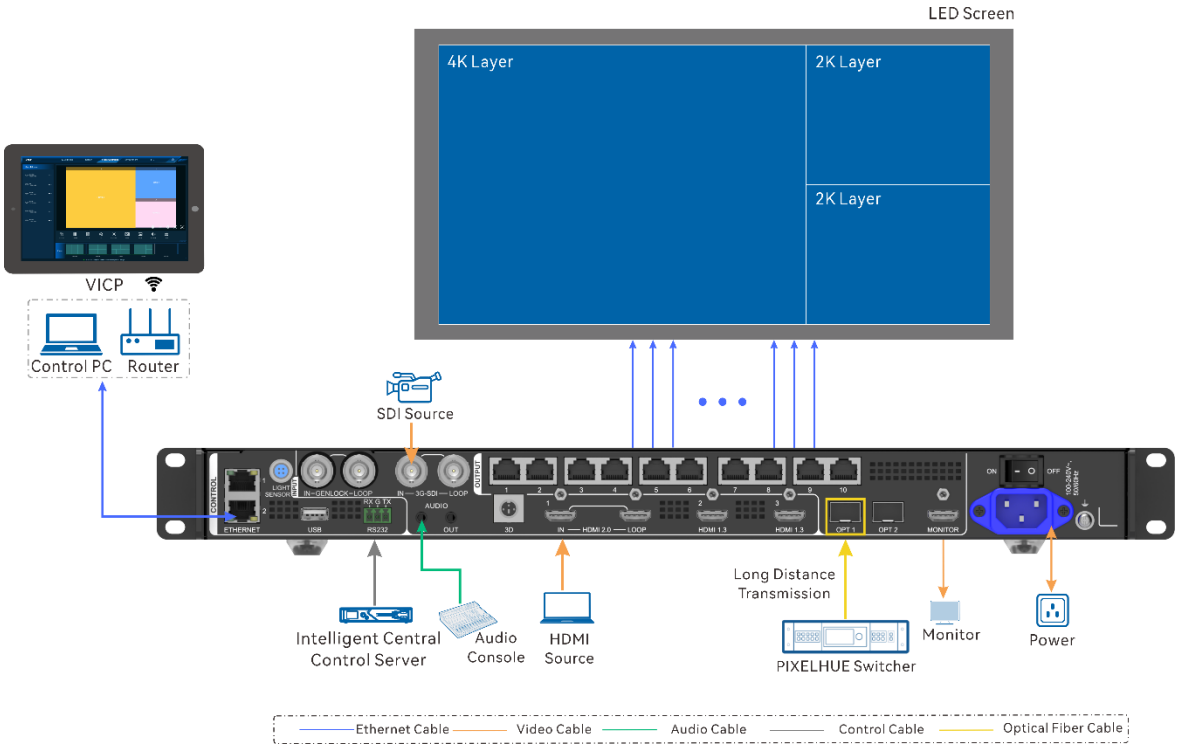
Input Connectors		
Connector	Qty	Description
HDMI 2.0	1	1x HDMI 2.0 • Max. input resolution: 4096×2160@60Hz • Supported frame rate: 23.98/24/25/29.97/30/47.95/48/50/56/59.94/60/70/71.93/72/75/85/100/119.88/120/144 • Compatible with HDMI 1.4 and HDMI 1.3 video inputs • HDMI 2.0-1 loop out supported Up to 6 devices can be cabled in one loop. • Custom resolutions supported – Max. width: 8192 pixels (8192×1080@60Hz) – Max. height: 8188 pixels (1080×8188@60Hz) • Supports 8-bit/10-bit/12-bit video inputs. • Supported color space/sampling rate: RGB 4:4:4/YCbCr 4:4:4/YCbCr 4:2:2/YCbCr 4:2:0. • HDCP 1.4 and HDCP 2.2 supported • Accompanied audio supported • Does not support interlaced signal inputs.
HDMI 1.3	2	2x HDMI 1.3 • Max. input resolution: 1920×1080@60Hz • Supported frame rate: 23.98/24/25/29.97/30/47.95/48/50/56/59.94/60/70/71.93/72/75/85/100/119.88/120 • Custom resolutions supported – Max. width: 2048 pixels: 2048 pixels (2048×1080@60Hz) – Max. height: 2048 pixels 2048 pixels (1080×2048@60Hz) • Supports 8-bit video inputs. • HDCP 1.4 supported • Supported color space/sampling rate: RGB 4:4:4/YCbCr 4:4:4/YCbCr 4:2:2 • Accompanied audio supported • Does not support interlaced signal inputs.
3G-SDI	1	1x 3G-SDI • ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inputs supported • Supported protocols: SMPTE 259M, SMPTE 274M, SMPTE 296M, SMPTE

		425M-A and SMPTE 425M-B • Max. input resolution: 1920×1080@60Hz • 3G-SDI loop output supported • Deinterlacing processing supported • 10-bit video inputs supported • Does not support input resolution and bit depth settings.
*Connector capacity limitations		• SL – Standard resolution: 1920×1080@60Hz – Custom max width: 2048 (2048×1080@60Hz) – Custom max height: 2048 (1080×2048@60Hz) • DL – Standard resolution: 3840×1080@60Hz/3840×2160@30Hz – Custom max width: 4096 (4096×1080@60Hz) – Custom max height: 3840 (1080×3840@60Hz) • 4K – Standard resolution: 4096×2160@60Hz/8192×2160@30Hz – Custom max width: 8192 (8192×1080@60Hz) – Custom max height: 8188 (1080×8188@60Hz) Note If the resolution of an input source is larger than the max width limit of the connector capacity, you need to switch the connector capacity to ensure that the input source can be processed normally.
Output Connectors		
Connector	Qty	Description
Ethernet ports	10	• Max. loading capacity: 6.5 million pixels • Max. width: 10,240 pixels, max. height: 8192 pixels • Maximum capacity of a single port: 650,000 pixels (output bit depth: 8bit) • Supported frame rate: 23.98/24/25/29.97/30/47/48/50/59.94/60/71.93/72/75/85/95/100/119.88/120/144
OPT	2	2x 10G optical fiber ports • OPT 1: Self-adaptive, either for video input or for output • OPT 2: For output with copy and backup modes or loop output • Supports the following three modes: – Input+output: OPT 1 for video input, while OPT 2 copies or backs

		up the output on 10 Ethernet ports – Input+loop: OPT 1 for video input, OPT 2 for loop output – Output: OPT 1 sends the output on 10 Ethernet ports, while OPT 2 copies or backs up the output on 10 Ethernet ports. • Paired with single-mode and dual-mode optical modules with the following transmission distance – Single-mode twin-core optical module: ≤10 km – Multi-mode twin-core optical module: ≤300 m Note The optical module is not installed at the factory. Please purchase and install it as needed.
HDMI 1.3	1	For monitoring display Output resolution: 1920×1080@60Hz (fixed)
3D	1	1x 3D connector Connect the 3D emitter and use the compatible 3D glasses to enjoy a 3D visual experience. Note When the 3D function is enabled and the video source format is **Side-by-Side** or **Top-and-Bottom**, the device output capacity will be halved.
Audio Connectors		
Connector	Qty	Description
AUDIO	2	1x AUDIO input, 1×AUDIO output • 3.5 mm standard audio input and output connectors • Audio sampling rate up to 48 kHz
Control Connectors		
Connector	Qty	Description
ETHERNET	2	• Connect to the control PC for device control and firmware upgrade via Unico. Status LEDs: • The top left one indicates the connection status. – On: The port is properly connected. – Flashing: The port is not properly connected, such as loose connection. – Off: The port is not connected. • The top right one indicates the communication status.

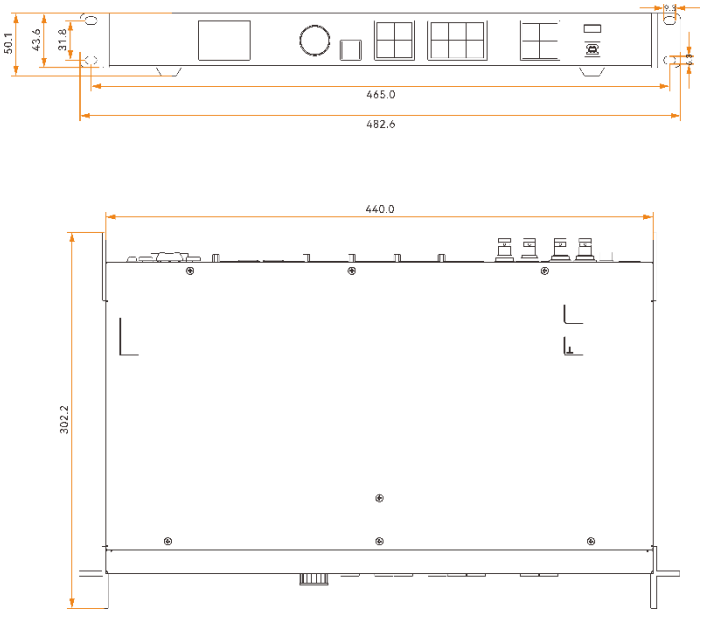
		– On: No data communication. – Flashing: The communication is good and data is being transmitted. – Off: No data transmission
USB	1	1x USB 2.0 • Cascade the devices via the USB port and Ethernet port. Up to 5 devices can be cascaded. • Update the firmware via the USB drive. • Import or export device logs and EDID files.
RS232	1	3-pin connectors • RX: Receive signals. • TX: Send signals. • G: Ground
GENLOCK IN-LOOP	1	Connect to an external sync signal. Accepts bi-level and tri-level signals. • IN: Accept the sync signal. • LOOP: Loop the sync signal. • Genlock signal frame rate: 24 to 60Hz
LIGHT SENSOR	1	Connect to a light sensor to collect the ambient brightness, allowing for automatic screen brightness adjustment.

Applications



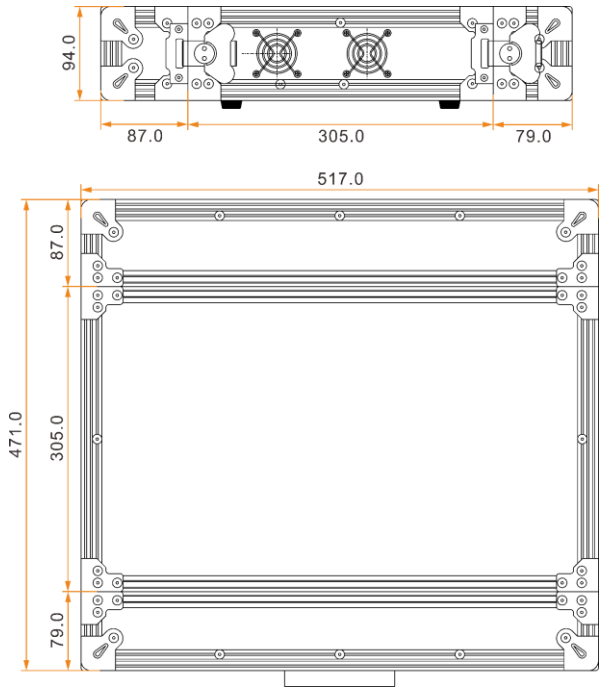
Dimensions

Device



Tolerance: ±0.5 Unit: mm

Flight Case



Tolerance: ±5 Unit: mm

Note

If you require detailed dimensions and drawings of the flight case, please contact our customer service team.

Specifications

Electrical Parameters	Power connector	100–240V~, 50/60Hz, 2A–0.8A
	Rated power consumption	44 W
Operating Environment	Temperature	0°C to 50°C
	Humidity	5% RH to 85% RH, non-condensing
Storage Environment	Temperature	-10°C to 60°C
	Humidity	5% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	482.6 mm × 302.2 mm × 50.1 mm
	Net weight	3.9 kg
	Total weight (packed	6.5 kg

	with paper box)	
	Total weight (packed with flight case)	9.2 kg
Packing Information	Packing box	565 mm × 450 mm × 175 mm
	Flight case	517mm × 471mm × 94mm
	Accessories	1x Power cord, 1x Ethernet cable, 1x HDMI cable, 2x Silicone dustproof plugs, 1x USB cable, 1x Phoenix connector, 1x Quick Start Guide, 1x Certificate of Approval, 1x Safety Manual
Accessories (optional)	1x Remote control Note Please purchase the remote control as needed. (Item code: M07020005)	
Noise Level (typical at 25°C/77°F)	45 dB (A)	

Video Source Features

Input Connectors	Common Resolutions		Color Space	Sampling Rate	Bit Depth	Integer Frame Rates (Hz)
HDMI 2.0	4K×2K	4096×2160	RGB / YCbCr	4:4:4	12bit	24/25/30
					10bit	24/25/30
					8bit	24/25/30/48/50/60
			YCbCr	4:2:2	8/10/12bit	
			YCbCr	4:2:0	8/10/12bit	
	4K×1K	3840×1080	RGB / YCbCr	4:4:4	12bit	24/25/30/48/50/60/72/85
					10bit	24/25/30/48/50/60/72/100
					8bit	24/25//30/48/50/60/72/120
			YCbCr	4:2:2	8/10/12bit	
			YCbCr	4:2:0	8/10/12bit	
	2K×1K	1920×1080	RGB / YCbCr	4:4:4	12bit	24/25/30/48/50/60/72/120/144
					10bit	24/25/30/48/50/60/72/120/144

Input Connectors	Common Resolutions		Color Space	Sampling Rate	Bit Depth	Integer Frame Rates (Hz)
					8bit	24/25/30/48/50/60/72/120/144
			YCbCr	4:2:2	8/10/12bit	
			YCbCr	4:2:0	8/10/12bit	
HDMI 1.3	2K×1K	1920×1080	RGB / YCbCr	4:4:4	12bit	24/25/30
					10bit	24/25/30/48/50/60
					8bit	24/25/30/48/50/60
			YCbCr	4:2:2	8/10/12bit	
3G-SDI	2K×1K	1920×1080	YCbCr	4:2:2	8/10/12bit	24/25/30/48/50/60

Note

The table above shows some common resolutions and integer frame rates only. The adaptation to decimal frame rates is also supported, including 23.98/29.97/59.94/71.93/119.88Hz.

Notes and Cautions

Notes For Battery

- The battery is not intended to be replaced.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.

Notes for Installation

When the product needs to be installed on the rack, 8 screws at least M5*8 should be used to fix it. The rack for installation shall bear at least 16kg weight.

- Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient.

Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

- Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Others

- Note: This product can only be placed horizontally. Do not mount vertically or upside-down.
- This is Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
- Please read the specifications thoroughly and use the product in accordance with the requirements. If you have any questions about the specifications, please contact us

immediately. If you use the product improperly, not following the requirements, or for illegal purposes, you shall be solely responsible for any consequences arising therefrom.

Copyright

Statement

Thank you for choosing NovaStar's product. This document is intended to help you understand and use the product. For accuracy and reliability, NovaStar may make improvements and/or changes to this document at any time and without notice. If you experience any problems in use or have any suggestions, please contact us via the contact information given in this document. We will do our best to solve any issues, as well as evaluate and implement any suggestions.

Official website
www.novastar.tech

Technical support
support@novastar.tech

tp-link | Omada

Omada
Business Cloud SDN Solution

Omada EAP - Business Wi-Fi Series

Omada SDN Controller

EAP620 HD

EAP Product List

Ceiling Mount 802.11ax Wi-Fi 6 AP	
Picture	
Model	EAP620 HD
Product	AX1800 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Speed	2.4 GHz: 574 Mbps 5 GHz: 1201 Mbps
Ethernet Port	1x Gigabit Ethernet Port
Power Supply	**V3:** 48V Passive PoE or 802.3at PoE or 12V/1.5A DC **V2:** 48V Passive PoE or 802.3at PoE or 12V/1A DC
Internal Antennas	2.4 GHz: 2x 4 dBi 5 GHz: 2x 5 dBi

Specifications

Ceiling Mount 802.11ax Wi-Fi 6 AP		
Model		EAP620 HD
Name		AX1800 Ceiling Mount Dual-Band Wi-Fi 6 Access Point
Main Design	LAN Interfaces	1x Gigabit Ethernet Port
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
	Maximum Data Rate	574 Mbps (2.4 GHz) +1201 Mbps (5 GHz)
	Wireless Client Capacity	1000+
	Antennas	2.4 GHz: 2x 4 dBi 5 GHz: 2x 5 dBi
	Transmit Power	CE: < 20 dBm (2.4GHz, EIRP); < 23dBm (5 GHz, band1&band 2, EIRP);< 30 dBm (5 GHz,band 3, EIRP); FCC: < 25 dBm (2.4 GHz); < 25 dBm (5 GHz)
Centralized Management	Omada Software Controller	•
	Omada Hardware Controller	•
	Omada APP	•
Security	Captive Portal Authentication	•
	Access Control	•
	Maximum number of MAC Filter	4000
	Wireless Isolation between Clients	•
	VLAN	•
	Rogue AP Detection	•
	Wireless Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
	802.1X Support	•
Wireless Function	Multiple SSIDs	16 (8 on each band)
	Enable/Disable Wireless Radio	•
	Enable/Disable SSID Broadcast	•
	Guest Network	•
	Automatic Channel Assignment	•
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	•
	Seamless Roaming	•
	Mesh	•
	Beamforming	•
	MU-MIMO	•
	Rate Limit	Based on SSID/Client
	Load Balance	•
	Airtime Fairness	•
	Band Steering	•
	RADIUS Accounting	•
	MAC Authentication	•
	Reboot Schedule	•
	Wireless Schedule	•
	Wireless Statistics	•
	Static IP/Dynamic IP	•

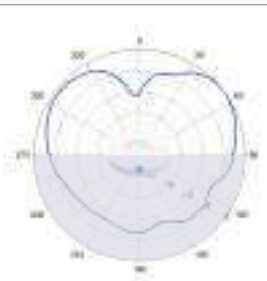
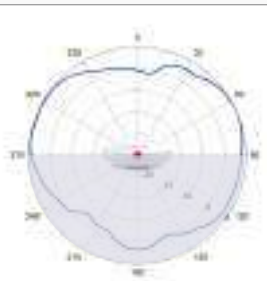
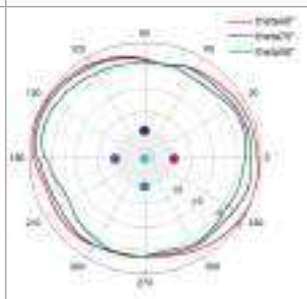
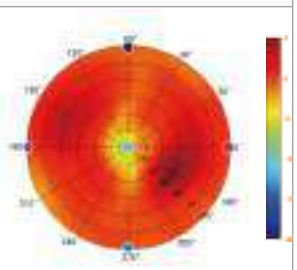
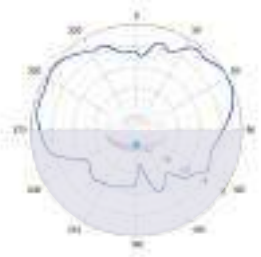
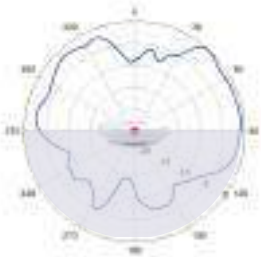
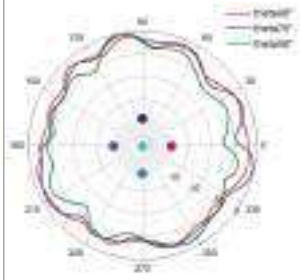
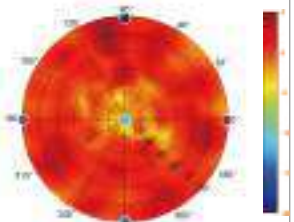
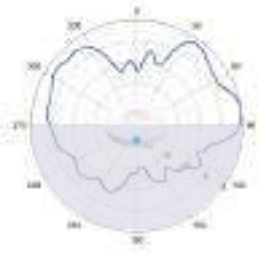
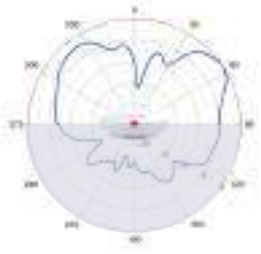
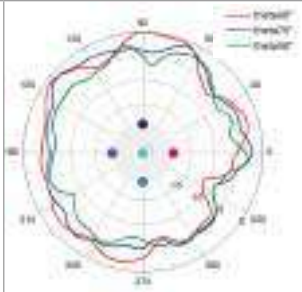
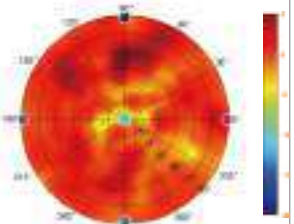
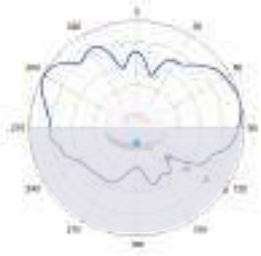
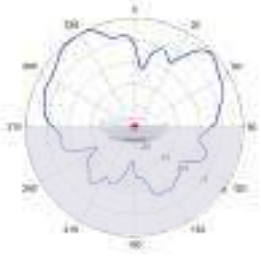
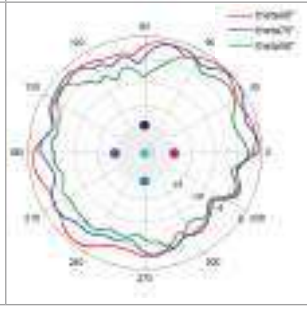
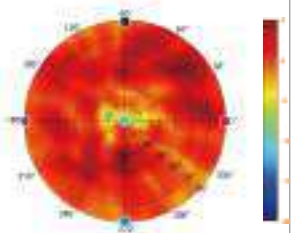
Ceiling Mount 802.11ax Wi-Fi 6 AP

Model		EAP620 HD
Support Data Rates	802.11ax	8 Mbps to 1201 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80)
	802.11ac	6.5 Mbps to 1083.3 Mbps (MCS0-MCS11, NSS = 1 to 2 VHT20/40/80)
	802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)
	802.11g	6, 9, 12, 18, 24, 36, 48 ,54 Mbps
	802.11b	1, 2, 5.5, 11 Mbps
	802.11a	6, 9, 12, 18, 24, 36, 48 ,54 Mbps
Management	LED ON/OFF Control	•
	Management MAC Access Control	•
	Web-based Management	•
	SNMP	v1, v2c, v3
	SSH	•
	Restore & Backup	•
	Firmware update via Web	•
	NTP	•
	System Log	•
	Email Alerts	•
Physical & Environment	Power Supply	V2: 48V Passive PoE or 802.3at PoE or 12V/1A DC V3: 48V Passive PoE or 802.3at PoE or 12V/1.5A DC
	Maximum Power Consumption	V2: EU: 12.8 W (For PoE); 10.8 W (for DC) US: 13.9 W (For PoE); 11.8 W (for DC) V3: EU: 14.4 W (For PoE); 13.1 W (for DC) US: 14.9 W (For PoE); 13.4 W (for DC)
	Reset	•
	Mounting	Ceiling / Wall mouting (Kits included) / Junction Box mouting
	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	160 x 160 x 33.6 mm
	Environment	Operating Temperature: 0 °C–40 °C (32 °F–104 °F); Storage Temperature: -40 °C–70 °C (-40 °F–158 °F); Operating Humidity: 10%–90% non-condensing; Storage Humidity: 5%–90% non-condensing;

Antenna Radiation Patterns

Ceiling Mount AP

EAP620 HD

	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D
2.45 GHz				
5.25 GHz				
5.5 GHz				
5.75 GHz				

Disclaimers

Wireless Speed and Range Disclaimer

Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications were defined according to test results under normal usage conditions. Actual wireless transmission rate and wireless coverageare not guaranteed, and will vary as a result of 1) environmental factors, including building materials, physical objects and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition.

Wireless Client Capacity Disclaimer

Wireless client capacity specifications were defined according to test results under normal usage conditions. Actual wireless client capacity is not guaranteed, and will vary as a result of 1) environmental factors, including building materials, physical objects and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition.

Ethernet Port Limitation Disclaimer

Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.

MU-MIMO Disclaimer

(Only for certain devices)
MU-MIMO capability requires client devices that also support MU-MIMO.

Seamless Roaming Disclaimer

(Only for certain devices)
Seamless roaming requires both the access point and client devices to support 802.11k and 802.11v protocols.

Lightning and Electro-Static Discharge Protection Disclaimer

(Only for outdoor devices)
Protection against lightning and electro-static discharge may be achieved through proper product setup, grounding and cable shielding. Refer to the instruction manual and consult an IT professional to assist with setting up this product.

PoE Disclaimer

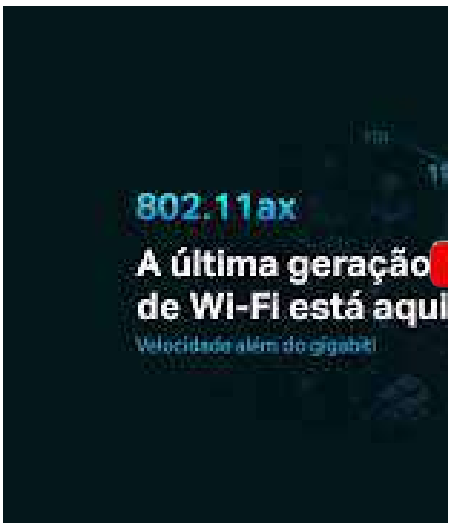
PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: www.tp-link.com. Specifications are subject to change without notice.

EAP620 HD V3.20 Novo

Access Point Wi-Fi 6 Dual Band AX1800 de Teto

What is Omada Cloud SDN?



Conheça o Wi-Fi 6

CARACTERÍSTICAS DE HARDWARE

Interface	1× Porta Gigabit Ethernet (RJ-45) (suporta IEEE802.3at PoE)
Botão	Reset
Fonte de Alimentação	802.3at PoE ou 12 V DC (Adaptador de energia incluso)
Consumo de Energia	13.5 W
Dimensões (L X C X A)	9.6 × 9.6 × 2.5 in (243 × 243 × 64 mm)
Tipo de Antena	Omni direcional Antenas Internas • 2.4 GHz: 2× 4 dBi • 5 GHz: 2× 5 dBi
Montagem	Montagem Teto/Parede (Kit montagem incluso)

CARACTERÍSTICAS WIRELESS

Coverage	140㎡(1500 ft²)***
Concurrent Clients	1,020+**
Padrões Wireless	IEEE 802.11ax/ac/n/g/b/a
Frequência	2.4 GHz e 5 GHz
Taxa de Sinal	5 GHz: Até 1201 Mbps 2.4 GHz: Até 574 Mbps
Funções Wireless	• 1024-QAM • Símbolo OFDM 4× mais longo • OFDMA • Vários SSIDs (até 16 SSIDs, 8 para cada banda) • Ativar/Desativar Rádio Sem Fio • Atribuição Automática de Canal • Controle de Potência de Transmissão (Ajuste a Potência de Transmissão em dBm) • QoS(WMM) • MU-MIMO • Roaming contínuo△ • Malha Omada△ • Direção de banda

CARACTERÍSTICAS WIRELESS

	• Balanceamento de carga • Equidade no tempo de antena • Formação de feixe • Taxa limite • Agenda de reinicialização • Agenda sem fio • Estatísticas sem fio baseadas em SSID/AP/Cliente
Segurança Wireless	• Autenticação do portal cativo△ • Controle de acesso • Filtragem de endereços Mac sem fio • Isolamento sem fio entre clientes • Mapeamento de SSID para VLAN • Detecção de AP não autorizado • Suporte 802.1X • WEP, WPA-Pessoal/Empresa, WPA2-Pessoal/Empresa, WPA3-Pessoal/Empresa
Potência de Transmissão	• CE: ‹ 20 dBm(2.4 GHz, EIRP) ‹ 23 dBm(5 GHz, EIRP) • FCC: ‹ 25 dBm (2.4 GHz) ‹ 25 dBm (5 GHz)

GERENCIAMENTO

Omada App	Sim
Gerenciamento Centralizado	• Controlador Omada Hardware (OC300) • Controlador Omada Hardware (OC200) • Software Controlador Omada
Acesso via nuvem	Sim (por meio do OC300, OC200 ou Omada Software Controller)
Alertas por E-mail	Sim
Controle de LED ON/OFF	Sim
Controle de Acesso para Gerenciamento MAC	Sim
SNMP	v1, v2c, v3
Login de Sistema Local/Remoto Syslog	Syslog Local / Remoto
SSH	Sim
Gerenciamento por WEB	HTTP/HTTPS
Gestão L3	Sim
Gestão Multi-site	Sim
VLAN de Gerenciamento	Sim
Zero-Touch Provisioning	Yes. Requiring the use of Omada Cloud-Based Controller (Supported by EAP620 HD v2.0 and above)

OUTROS

Certificação	FCC
Conteúdo do Pacote	• EAP620 HD • Fonte de energia

OUTROS	
	• Kits de Montagem no Teto ou Parede • Guia de Instalação
Requerimentos do Sistema	Microsoft Windows XP, Vista, Windows 7, Windows 8, Windows10, Windows11, Linux
Ambiente	• Temperatura de operação: 0–40℃ (32–104℉) • Temperatura de armazenamento: -40–70℃ (-40–158℉) • Umidade de operação: 10% a 90% UR Sem condensação • Umidade de armazenamento: 5% a 90% UR Sem condensação

†As taxas máximas de sinal sem fio são as taxas físicas derivadas das especificações do padrão IEEE 802.11. A taxa de transferência real de dados sem fio e a cobertura sem fio não são garantidas e variam como resultado de 1) fatores ambientais, incluindo materiais de construção, objetos físicos e obstáculos, 2) condições de rede, incluindo interferência local, volume e densidade de tráfego, localização do produto, complexidade da rede e sobrecarga da rede e 3) limitações do cliente, incluindo desempenho avaliado, localização, conexão, qualidade e condição do cliente.

‡4× Capacidade aumentada refere-se ao aumento da taxa de transferência média em ambiente denso em comparação com o ponto de acesso padrão 4×4 11ac.

△Omada Mesh, Roaming Contínuo, Acesso à Nuvem e Portal Captivo requerem o uso de controladores Omada SDN. Acesse Omada Mesh Lista de produtos para encontrar todos os modelos suportados pelo Omada mesh tecnologia e consulte os Guias do usuário dos controladores SDN Omada para métodos de configuração.

*O uso do OFDMA exige que os clientes também suportem OFDMA.

EMONITA

iPad Soulmate

PRODUCT

2023 · MANUAL

	For APPLE Charging Case		***For HUAWEI*** Charging Case		***For SANSUNG*** Charging Case
Foldable Charging Stand		EMONITA iPad Soulmate		***360° Magnetic*** Wall Charger	
	***360° Magnetic*** Wall Charger （POE）		***Fixed*** Wall Charger		***Floor Standing*** Charging Stand

Fuzhou Emonita Technology Co., Ltd.

WWW.EMONITA.COM

ABOUT US

EMONITA is Soulmate of Tablet, Welcome EMONITA, a team of experts specializing in producing magnetic charging stands for tablets. Our products include Tablet Charging Case, Wall magnetic chargers, Base magnetic chargers, Foldable stands chargers, Handheld stand and Floor-standing chargers etc.

We pride ourselves on delivering high-quality products that provide convenience and efficiency to our customers. To ensure this, we use only the best materials and employ state-of-the-art manufacturing techniques.

Our products are designed for both personal and professional use and are compatible with a wide range of tablet models, making them ideal for individuals, schools, offices, and other institutions.

At our company, we are passionate about innovation and are constantly exploring new and better ways to serve our customers. As such, we are always open to feedback and strive to respond promptly to any queries or concerns you may have.

Thank you for considering our products and services. We look forward to serving you!

« CERTIFICATE »


外观设计专利证书


实用新型专利证书


外观设计专利证书


Certificate of Registration

Fuzhou Emonita Technology Co., Ltd.

GB/T 19001-2016 / ISO 9001:2015

For APPLE Cases

MAGNETIC
CHARGING

A6

A10

Magnetic Connection

360° Rotation

Fast Charging

Metal Frame

NO.	Applicable Model	Case size
A6	iPad mini (6th generation)	144.7*223.4*16.5mm
A7	iPad 10.2 (7th / 8th / 9th generation)	184*276*17.5mm
A8	iPad10.9-inch (10th generation)	189.5X275.6X16.1mm
A9	iPad Air (4th / 5th generation)	188.4*274.5*15.6mm
	iPad Pro 11-inch (1st / 2nd / 3rd / 4th generation)	188.4*274.5*15.6mm
A10	iPad Pro 12.9-inch (3rd / 4th / 5th / 6th generation)	226.5*309.2*16.1mm

Material	Color
AL alloy 6061、PC + ABS	Black / Silver

For HUAWEI Cases

MAGNETIC
CHARGING

M6

- **Applicable Model**： Huawei M6-10.8in/ Mate Pad-10.8in
- **Case size**： 179.9*285.2*17.1mm
- **Materia**： AL alloy 6061、PC + ABS
- **Color**： Black / Silver

Magnetic Connection | 360° Rotation | Fast Charging | Metal Frame

M11

- **Applicable Model**： Huawei Mate Pad 11in
- **Case size**： 219*353.8*15.1
- **Material**： AL alloy 6061、PC + ABS
- **Color**： Black / Silver

Magnetic Connection | 360° Rotation | Fast Charging | Metal Frame

WWW.EMONITA.COM

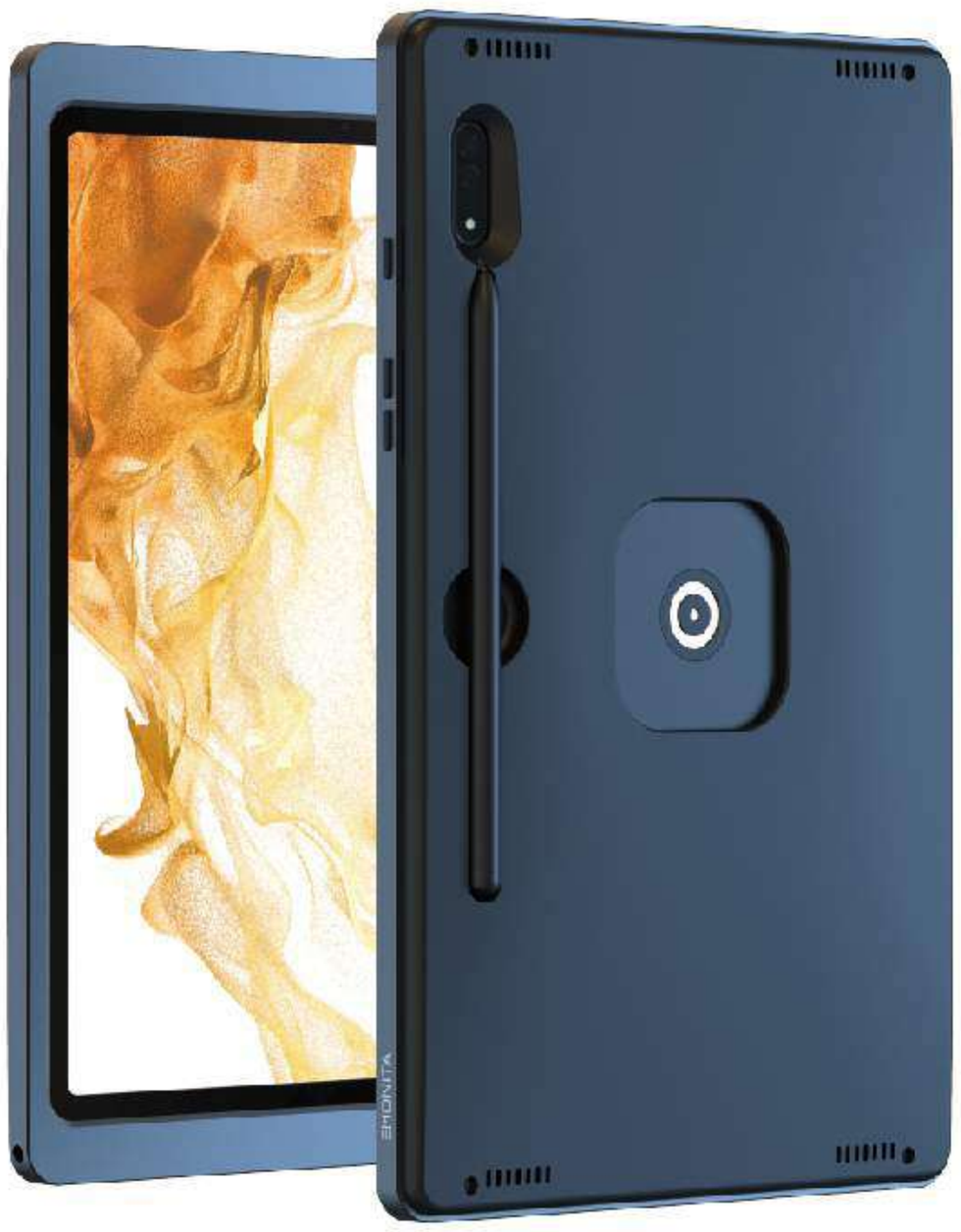
For Samsung Cases

MAGNETIC
CHARGING

S81

- **Applicable Model**： Samsung Tab S8-11in
- **Case size**： 281.2*175.7*15.9
- **Materia**： AL alloy 6061、PC + ABS
- **Color**： Black / Silver

Magnetic Connection
360° Rotation
Fast Charging
Metal Frame



S82/S83

- **Applicable Model**：
  Samsung Tab S8-12.4in/14.6in
- **Materia**： AL alloy 6061、PC + ABS
- **Color**： Black / Silver
  Under developing ……

Magnetic Connection
360° Rotation
Fast Charging
Metal Frame

WWW.EMONITA.COM

Wall Magnetic Charger

MAGNETIC
CHARGING

360° Magnetic *Wall Charger*

- **Emonita Model:** EM-PW5025
- **Size:** 86*90*42.6mm
- **Materials:** AL alloy 6061、PC + ABS
- **Input:** AC100~250V
- **Output:** DC12V2A
- **Mode:** Manual / Automatic(8+16)
- **Color:** Black / Silver

360° Magnetic *Wall Charger(POE)*

- **Emonita Model:** EM-PW1202
- **Size:** 86*90*40.4mm
- **Materials:** AL alloy 6061、PC + ABS
- **Input:** DC12~24V/POE(44V~57V)
- **Output:** DC12V2A
- **Mode:** Manual / Automatic(8+16)
- **Color:** Black / Silver

Base Magnetic Charger

MAGNETIC
CHARGING

L-shaped Desktop *Charging Stand*

- **Emonita Model**：T10
- **Materials**：AL alloy 6061、SECC + ABS
- **Size**：135*130*217mm
- **Input**：Type-C/12V2A
- **Output**：DC12V2A
- **Mode**：Manual / Automatic(8+16)
- **Color**：Black / Silver

Foldable *Charging Stand*

- **Emonita Model**：EX150C
- **Materials**：AL alloy 6061 + ABS
- **Size**：150*150*225mm
- **Input**：Type-C/12V3A
- **Output**：DC12V/1.5A+15W(wireless charge)
- **Color**：Black / Silver

New Bracket

MAGNETIC
CHARGING

Handheld Stand

- **Emonita Model**：SE130-H
- **Materials**：AL alloy 6061 + ABS
- **Size**：74*167*31.8mm
- **Input**：Type-C/12V2A
- **Output**：DC12V2A
- **Color**：Black / Silver

Floor Standing
Charging Stand

- **Emonita Model**：LD170-H
- **Materials**：AL alloy 6061 + ABS
- **Size**：280*350*1737mm
- **Input**：Type-C/20V2.25A
- **Output**：DC12V2A
- **Color**：Black / Silver

Our Advantage

Magnetic Charging

One suction and charge,
Say goodbye to entanglement

360° Rotation

Take it freely,
Don't worry about dropping it

Wireless Fast Charging

Safe and does not
Hurt the tablet

EMONITA

iPad Soulmate

Scan Download

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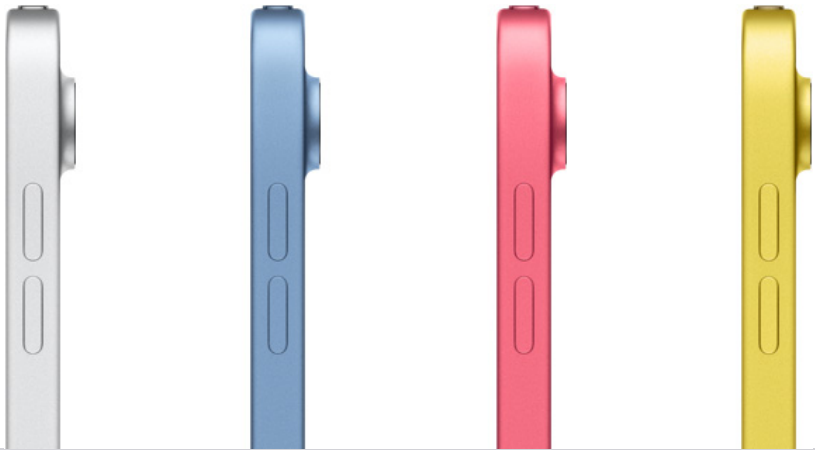
Cor

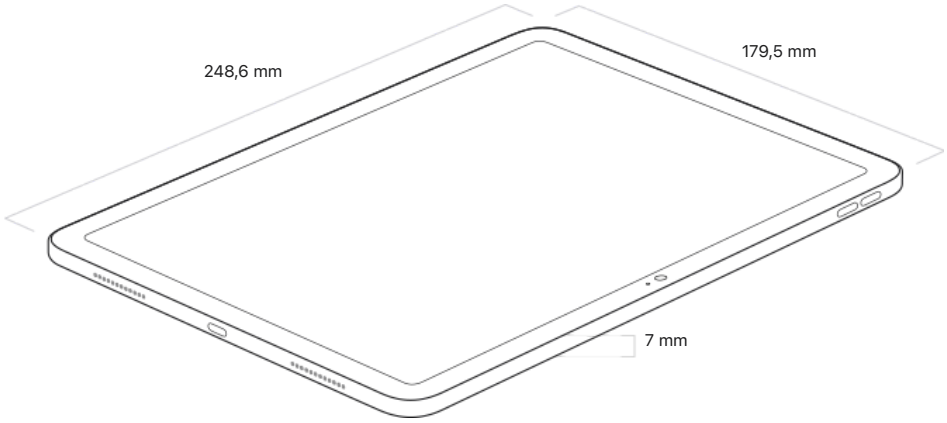
Prateado Azul Rosa Amarelo



Capacidade[1]

128 GB
256 GB
512 GB

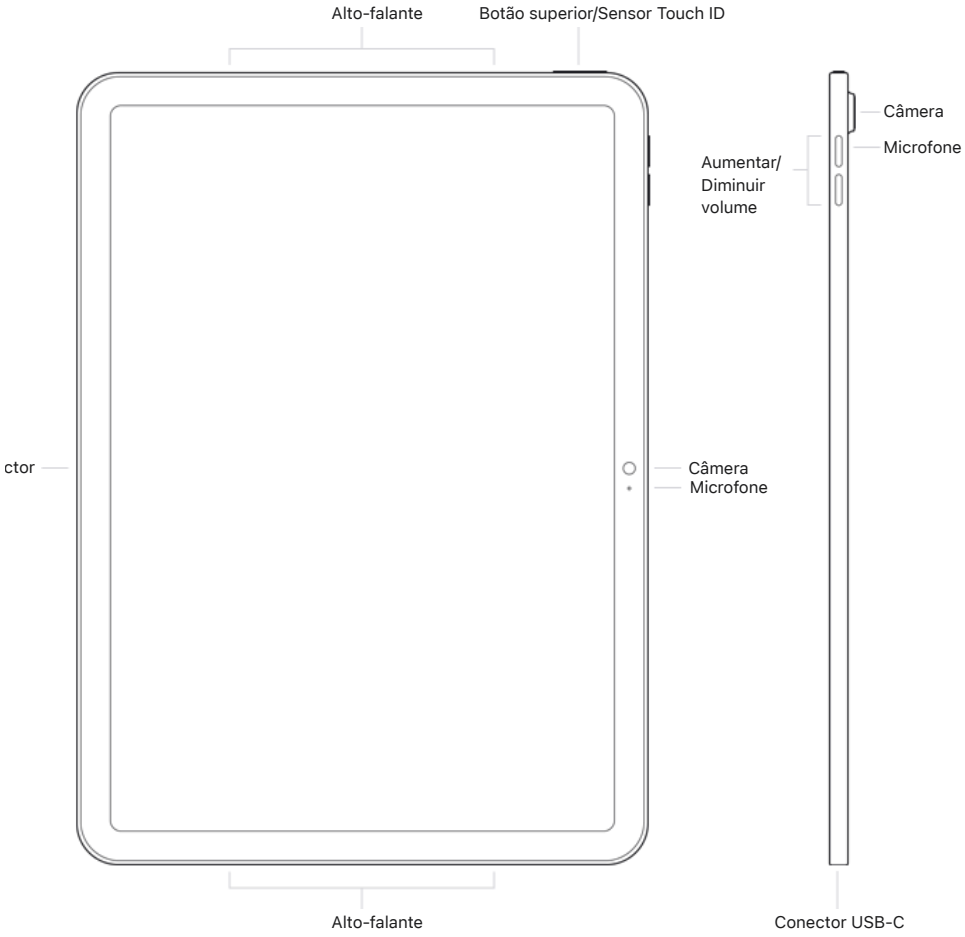
Tamanho e peso[2]



Modelos Wi-Fi
477 gramas

Modelos Wi-Fi + Cellular
481 gramas

Botões e conectores



Conteúdo da caixa

iPad

Cabo para recarga com conector USB-C (1 metro)

Adaptador de energia USB-C de 20W

Tela

Liquid Retina

Tela Multi-Touch retroiluminada por LED com tecnologia IPS

Resolução de 2360 x 1640 pixels a 264 ppp

True Tone

500 nits de brilho

Revestimento resistente a impressões digitais e oleosidade

Compatível com Apple Pencil (USB-C)

Compatível com Apple Pencil (1ª geração)◆

A tela do iPad tem bordas arredondadas. Quando medida como um retângulo na diagonal, a tela tem 10,86 polegadas. A área real de visualização é menor.

◆ Use o adaptador de USB-C para Apple Pencil para recarregar e emparelhar o Apple Pencil (1ª geração).

Chip

Chip A16

CPU de 5 núcleos

GPU de 4 núcleos

Neural Engine de 16 núcleos

Câmera

Câmera grande-angular de 12 MP, abertura ƒ/1.8

Zoom digital até 5x

Lente de cinco elementos

Foco automático com Focus Pixels

Panorama (até 63 MP)

HDR Inteligente 4

Fotos com localização geográfica

Estabilização automática de imagem

Modo contínuo

Formatos de imagem capturados: HEIF e JPEG

Gravação de vídeo

Gravação de vídeo 4K a 24 qps, 25 qps, 30 qps ou 60 qps

Gravação de vídeo HD de 1080p a 25 qps, 30 qps ou 60 qps

Gravação de vídeo HD de 720p a 30 qps ou 60 qps

Vídeo em câmera lenta de 1080p a 120 qps ou 240 qps

Vídeo em time-lapse com estabilização
Alcance dinâmico estendido para vídeo até 30 qps
Estabilização de imagem de vídeo
Estabilização cinemática de vídeo (1080p e 720p)
Vídeo com foco automático contínuo
Zoom durante a reprodução
Formatos de gravação de vídeo: HEVC e H.264

Câmera frontal

Câmera Center Stage de 12 MP horizontal
Abertura ƒ/2.4
HDR Inteligente 4
Gravação de vídeo HD de 1080p a 25 qps, 30 qps ou 60 qps
Vídeo em time-lapse com estabilização
Alcance dinâmico estendido para vídeo até 30 qps
Estabilização cinemática de vídeo (1080p e 720p)
Correção de lente
Flash Retina
Estabilização automática de imagem
Modo contínuo

Chamada de vídeo[3]

FaceTime de vídeo
Palco Central
Do iPad para qualquer aparelho compatível com FaceTime via Wi-Fi ou dados celulares

Chamada de áudio[3]

FaceTime de áudio
Do iPad para qualquer aparelho compatível com FaceTime via Wi-Fi ou dados celulares

Alto-falantes

Alto-falantes estéreo na horizontal

Microfones

Dois microfones para chamadas e gravação de vídeo e áudio

Rede celular e conexões sem fio

Todos os modelos

Wi-Fi 6 (802.11ax) com MIMO 2x2

Duas frequências simultâneas

Bluetooth 5.3

Modelos Wi-Fi + Cellular

5G (sub-6 GHz) com MIMO 4x4

Gigabit LTE com MIMO 4x4

Modelo A3355:

5G NR (Bandas n1, n2, n3, n5, n7, n8, n12, n14, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79)[4]

FDD-LTE (Bandas 1, 2, 3, 4, 5, 7, 8, 11, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 28, 29, 30, 32, 66, 71)

TD-LTE (Bandas 34, 38, 39, 40, 41, 42, 48)

UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)

Somente dados[5]

Chamadas Wi-Fi[4]

eSIM[6]

Saiba mais sobre rede celular ›

Cartão SIM

eSIM[6]

O iPad utiliza tecnologia eSIM avançada para oferecer mais conveniência e segurança (não compatível com cartões SIM físicos)

Saiba mais sobre o eSIM ›

Saiba mais sobre como usar o eSIM em viagens ›

Localização

Todos os modelos

Bússola digital

Wi-Fi

Microlocalização iBeacon

Modelos Wi-Fi + Cellular

GPS/GNSS

Rede celular

Sensores

Touch ID

Giroscópio de três eixos

Acelerômetro

Barômetro

Sensor de luz ambiente

Touch ID

Desbloqueie o iPad

Mantenha dados pessoais seguros dentro dos apps

Faça compras na iTunes Store, na App Store e na Loja de Livros do Apple Books

Apple Pay

Pague com seu iPad usando o Touch ID em apps e sites

Saiba mais sobre o Apple Pay ›

Siri[7]

Receba ajuda em tarefas diárias, como enviar mensagens, definir lembretes e muito mais

Ative dizendo “E aí, Siri”

Com a maior proteção de privacidade de uma assistente inteligente

Saiba mais sobre a Siri ›

Recarga e conexões

Porta USB-C compatível com:

Recarga

DisplayPort

USB 2.0 (até 480 Mb/s)

Suporte a telas

Suporte à resolução nativa na tela do aparelho, com milhões de cores

Compatível com um monitor externo com resolução de até 4K a 60 Hz

Saída de vídeo digital

Saída DisplayPort nativa via USB-C

Saídas VGA, HDMI e DVI usando adaptadores (vendidos separadamente)

Espelhamento de vídeo

AirPlay para espelhamento e reprodução de fotos e vídeos até 4K na Apple TV (2ª geração ou posterior) ou Smart TV compatível com AirPlay

Compatibilidade com espelhamento de vídeo e saída de vídeo via Adaptador de USB-C para AV digital multiporta e Adaptador de USB-C para VGA multiporta (vendidos separadamente)

Energia e bateria[8]

Todos os modelos

Bateria interna recarregável de polímero de lítio com capacidade de 28,93 watts/hora

Até 10 horas para navegar na internet via Wi-Fi ou assistir a vídeos

Recarga via USB-C do computador ou adaptador de energia

Modelos Wi-Fi + Cellular
Até 9 horas para navegar na internet usando dados de rede celular

Sistema operacional

iPadOS
O iPadOS vem com recursos poderosos e apps incluídos desenvolvidos especialmente para aproveitar ao máximo as possibilidades únicas do iPad.

Acessibilidade

Os recursos integrados de acessibilidade para deficiências visuais, auditivas, cognitivas ou de mobilidade ajudam a aproveitar ao máximo seu iPad. Saiba mais ›

Entre os recursos, estão:

- VoiceOver
- Zoom
- Lupa
- Conteúdo Falado
- Controle Assistivo
- AssistiveTouch
- Siri e Ditado
- Digitar para a Siri
- Audiodescrições
- Legendas e Legendas Ocultas

Apps incluídos

UniFi UISP Branding

Search UniFi products

Switching WiFi Camera Security Door Access Integrations Advanced Hosting

PoE & Power > PoE to USB-C Adapter

Datasheet Marketing Images

Mechanical

Dimensions	Without cable: Ø30.4 x 95 mm (Ø1.2 x 3.7")
Weight	85 g (3 oz)
Enclosure Material	Polycarbonate

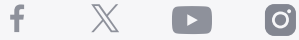
Hardware

Ports	(1) Input: RJ45 (1) Output: USB Type-C
Networking Interface	(1) GbE RJ45 port (Data out)
ESD/EMP Protection	Air: ±8kV; Contact: ±4kV
Power Method	PoE
Input Rating	48V DC, 0.25A
Output Rating	5V DC, 2A
Compatibility	Camera G4 Instant (UVC-G4-INS) G4 DoorBell Pro (UVC-G4-Doorbell-Pro)
Ambient Operating Temperature	-10 to 40° C (14 to 104° F)
Ambient Operating Humidity	5 to 95% noncondensing
NDAA Compliant	✓
Certifications	CE, FCC, IC

Stay in Touch

Email

Subscribe



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