

ORGÃO: TRIBUNAL DE JUSTICA DO ESTADO DO AMAZONAS
EDITAL: 90051/2024

PROPOSTA COMERCIAL

Item	Quant	UND	Descrição	Marca/Modelo	Unitário	Total
1	4	UND	CÂMERAS DE VÍDEO ROBÓTICAS - PTZ FULL HD	CAMERA CHAMEYE C720N	6.614,52	26.458,08
2	1	UND	MESA CONTROLADORA PARA CÂMERAS ROBÓTICAS - PTZ (Compatível com o item 1)	MESA CHAMEYE POE4D	3.910,68	3.910,68
3	4	UND	TRIPÉ PARA CÂMERAS (com capacidade de carga até 8 kg)	TRIPE QSD	893,79	3.575,16
VALOR TOTAL DA PROPOSTA: R\$ 33.943,92 (TRINTA E TRÊS MIL, NOVECENTOS E QUARENTA E TRÊS REAIS E NOVENTA E DOIS CENTAVOS)						33.943,92

Validade da proposta: 60 (sessenta) dias.

Observação: 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.

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Santo Antônio da Platina, 18 de outubro de 2024

AMPLIE ASSESSORIA EM LICITAÇÕES LTDA

Chameye

HDMI/NDI/SDI/USB AI Tracking PTZ CAMERA

>> 20x Optical Zoom <<
(User Manual V1.1)



Technical Support:

- E-Mail: Sandy@chameye.net
- Website: www.chameye.net
- Phone: 0086-18588412232

Please Note: Only NDI version cameras have NDI function.

Copyright

All contents of this manual, whose copyright belongs to our corporation, cannot be cloned, copied or translated without the permission of our corporation.

Notice

Product specifications and information which were referred to in this document are for reference only. We may change, delete, or update any content at any time and without prior notice.

FCC NOTICE (Class A)



This product complies with Part 15 of the FCC Rules. The 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 product 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 in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:



Warning

Operating this equipment in a residential environment may cause radio interference.

European Community Compliance Statement (Class A)



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive

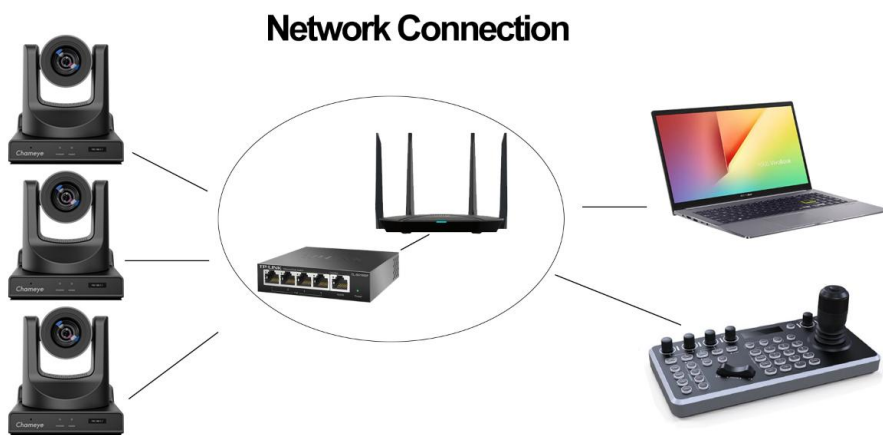
2014/30/EU.

Quick Start

◆ Add Cameras to Your Network

Please do the connections as the following. You'd better have a router in your network, then router will assign IP addresses for the cameras automatic.

(If you don't have router in your network, cameras can't get IP address from your network. Then, the camera's default IP address is : 192.168.100.88. You should do network settings in computer, please contact us for PDF instruction in this situation) .



Camera's screen will show its IP address , you can visit camera's webpage by camera's IP address.

Tips: When you login the camera's webpage, you'd better change the IP from "Dynamic IP Address" to "Fixed IP Address", then camera will keep currently IP, otherwise when camera/ router rebooted, router will assign a new IP address for the camera.

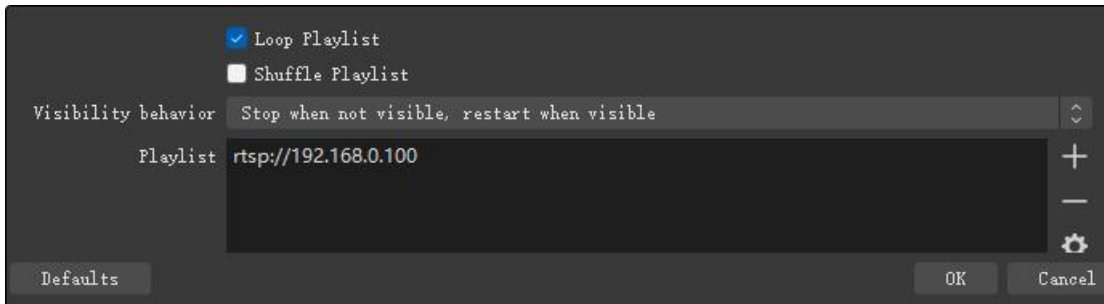
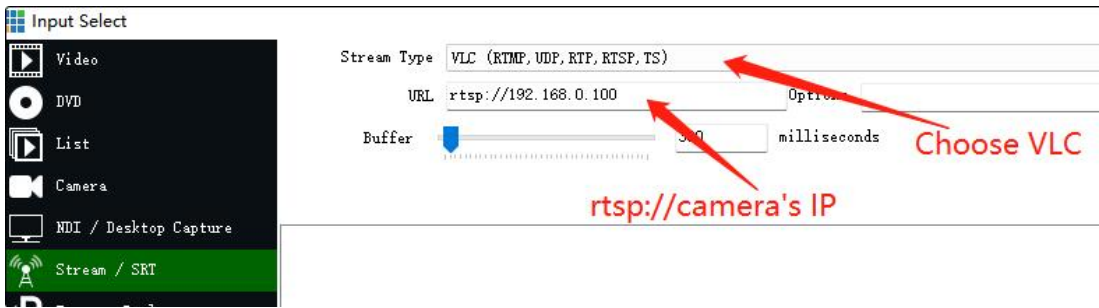
◆ Visit Camera's Webpage

Please use web browser such as: Google Chrome, Firefox or Safari to Visit camera's IP address

User name: admin **Password:** admin

◆ IP Streaming to Vmix or OBS

Tips: recommend to use VLC streaming in Vmix and OBS, it has lower latency.



If you want to use normal RTSP stream:

RTSP UDP Stream URL: `rtsp://192.168.0.100:554/1`

Please note, you need change the IP address to your camera's IP address.

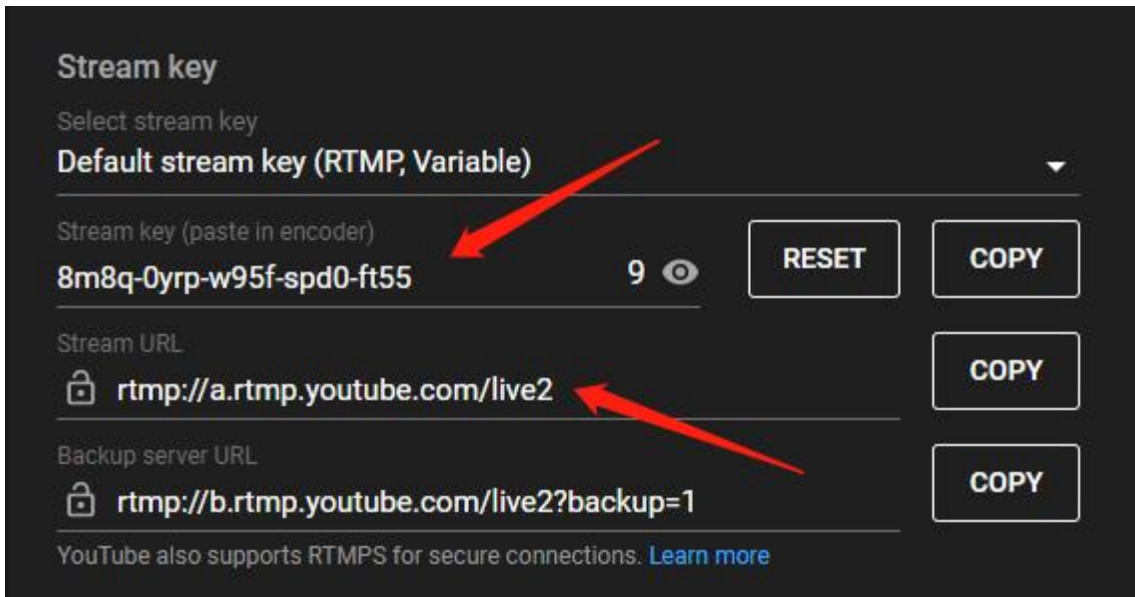
◆ IP Steam to Youtube or Facebook

Youtube , Facebook or other live broadcast platforms will supply Stream URL(server URL) and stream key for you.

Example for Youtube:

Stream URL: `rtmp://a.rtmp.youtube.com/live2/`

Stream Key: `8m8q-0yrp-w95f-spd0-ft55`



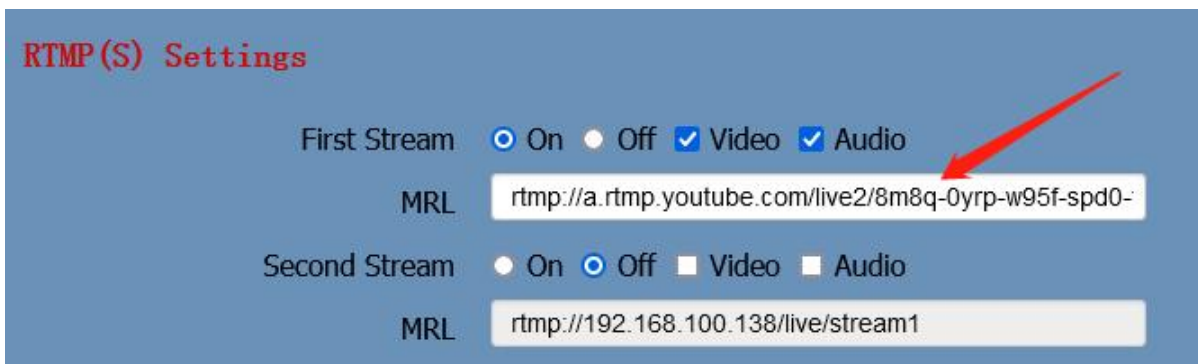
Now go to camera's webpage ->network->RTMP Settings.

input the RTMP stream URL :

<rtmp://a.rtmp.youtube.com/live2/8m8q-0yrp-w95f-spd0-ft55>

(Format: [Stream URL](#)/[Stream Key](#))

Save and reboot the camera, camera will stream to Youtube.



Example for Facebook:

Server URL: `rtmps://live-api-s.facebook.com:443/rtmp/`

Stream Key: `FB-117626344422167-0-AbzhlyyXbQGNT47w`

Streaming software setup
Copy and paste the stream key into your streaming software.

Stream key

Once you start to preview the broadcast you have up to 5 hours to go live.

Advanced Settings ^

Persistent stream key
This can be reused every time you go live. You can only broadcast one live video at a time with your persistent stream key.

Backup stream
Once a backup stream is added to your live video, it cannot be removed. It will not affect your stream if you choose not to use it.

Server URL

This may be referred to as "URL" or "Address" in your streaming software.

Now go to camera's webpage ->network->RTMP Settings.

input the RTMP stream URL:

<rtmps://live-api-s.facebook.com:443/rtmp/FB-117626344422167-0-AbzhlyyXbQGNT47w>

(Format: Stream URL/Stream Key)

RTMP(S) Settings

First Stream On Off Video Audio

MRL

Second Stream On Off Video Audio

MRL

Save and reboot the camera, it will stream to Facebook.

◆ **Connect Camera to Controller Keyboard**

◆ information you need:

◆ **User Name: admin Password: admin**

◆ **Sony Visca port: 52381 IP Visca UDP port: 1259**

◆ **IP Visca TCP port: 5678 Onvif Port: 2000**

◆ We recommend to use Sony Visca or IP Visca control protocols, the two protocols are more steady and work better.

Let's use Chameye IP controller for example:

(1)Connection: Camera and the IP controller must be in the same LAN(connect to the same router/switch by network cable)

(2) Enable controller's DHCP, and reboot the controller

Then, router will assign an IP address for the controller

(3) Press "Setup" ->Add:Sony Visca (or IP Visca) -> input your camera's IP ->input port:52381 (IP Visca UDP:1259) ->input camera control ID(1-255 numbers)

(4) Press "enter" to add the camera to controller

(5) If you have more than one cameras need to add to the controller, please press "IP" button to add the camera's IP address to controller one by one.

◆ **Simultaneous Video Out**

- Simultaneous HDMI 3G-SDI IP three channels Video Outputs

- Simultaneous HDMI 3G-SDI USB3.0 three channels Video Outputs

-Simultaneous HDMI 3G-SDI IP and USB3.0 four channels Video Outputs

For four channels video outs at the same time, please use professional multimedia player such as "PotPlayer" to preview USB video, and use H.264 format video out. Otherwise ,it will affect IP streaming video out.

If you need more supports, please contact us at: Sandy@chameye.net, normally, we can reply you within 12hours.

Chameye Supports Team

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1 Safety Precautions

- During the installation and use of the equipment, all electrical safety regulations of the country and region of use must be strictly observed.
- Please use the power adapter that comes standard with this product.
- Please do not connect multiple devices to the same power adapter (exceeding the capacity of the adapter may generate excessive heat or cause a fire).
- Do not rotate head of the camera by hand, otherwise it may cause mechanical failure.
- When installing this product on a wall or ceiling, secure the device securely. When installing, make sure that there are no obstacles within the rotation range of the gimbal; do not turn on the power until all installations are completed.
- To avoid heat build-up, keep ventilation around the device smooth.

- If the device emits smoke, smells, or makes noises, please turn off the power immediately and unplug the power cord, and contact the dealer in time.
- This device is not waterproof, please keep the device dry.
- This product has no user serviceable parts, damage caused by disassembly by the user is not covered by the warranty.



Notice

Specific frequencies of electromagnetic field

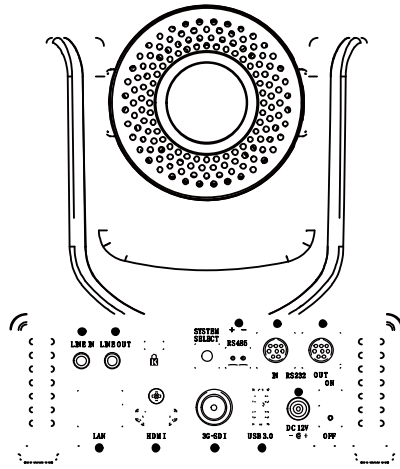
may affect the image of the camera!


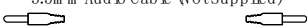
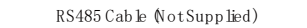

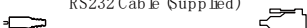
2 Packing List




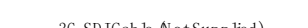


Name	Quantity
Camera	1
Power Adapter	1
Power Cable	1
RS232 Cable	1
USB Cable (Optional)	1
Remote Control	1
User Manual	1

3 Quick Start

- 1) Please check connections are correct before starting.



- 3.5m m Audio Cable (Not Supplied) 
- 3.5m m Audio Cable (Not Supplied) 
- RS485 Cable (Not Supplied) 
- RS232 Cable (Supplied) 
- RS232 Cable (Not Supplied) 

- AC Adapter (Supplied) 
- DC 12V IN Power Cable (Supplied) 
- USB Cable (Optional) 
- 3G-SDI Cable (Not Supplied) 
- HDMI Cable (Not Supplied) 
- Network Cable (Not Supplied) 

Computer, TV, VCR with audio input jack, Routers or Switches, Speaker/Microphone, etc.

- 2) Connect the power adapter to the power connector on the rear panel of the camera. The power indicator on the front panel of the camera is on.
- 3) After the camera is powered on, it starts to initialize, right up to the limit position, and then both horizontal and vertical go to the middle position, the motor stops running, and the initialization is completed.
- 4) (Note: If preset 0 is saved, PTZ will be move to preset 0)

4 Video Format

Video Format			
0	1080P60	8	-
1	1080P50	9	-
2	1080I60	A	1080P59.9 4
3	1080I50	B	1080I59.94
4	720P60	C	1080P29.9 7
5	720P50	D	-
6	1080P30	E	-
7	1080P25	F	720P59.94

5 About Product

5.1 Features

- **60.7° Wide-angle Lens + 20x Optical Zoom**

60.7° high-quality ultra-wide-angle lens, optical zoom up to 20x, support 16x digital zoom.

- **1080P Full HD**

Using 1/2.8-inch high-quality HD CMOS sensor with effective 2.07 million pixels, it can achieve high-quality images with a maximum resolution of 1920x1080.

- **New ISP Image Processing Algorithm**

The new generation of ISP image processing algorithm provides more

complete white balance and automatic exposure functions, which significantly improves the image output performance of the camera, and the imaging effect is also better. Widely used in education recording and broadcasting, distance education, video conferencing, live broadcasting, broadcasting and other industries.

- **Upgraded AI Technology**

Using upgraded AI technology, through face recognition, it can accurately determine the location of people, realize automatic tracking and automatic frame selection.

- **1080P60 NDI®|HB (Optional)**

It supports 1080P60 NDI®|HB technology, ultra-low latency high-quality audio and video signal transmission, and can achieve unparalleled ultra-high-resolution image quality and lossless effects that are closer to vision.

- **Leading Auto Focus Technology**

Using advanced focusing algorithm, the lens can focus quickly, accurately and stably.

- **Audio Processing Algorithm**

The exclusive audio processing algorithm can eliminate reverberation, effectively reduce environmental noise, and support EQ adjustment to optimize sound effects; the device supports dual mic pickup, and can also be connected to external microphones, wireless bees, etc., to meet the pickup needs of most scenarios.

- **Multiple Interfaces**

Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI, 3G-SDI, LAN can output three HD digital signals at the same time.

● Remote Control

Through the RS232 and RS485 serial ports, the camera can be controlled remotely.

5.2 Specifications

Camera	
Signal System	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor	1/2.8 inch, CMOS, Effective pixels: 2.07M
Scanning Mode	Progressive
Lens	20x, f = 4.42mm ~ 88.5mm, F1.8 ~ F2.8
Digital Zoom	16x
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, VAR, Manual, One Push, Indoor, Outdoor
Backlight Compensation	Support
Digital Noise Reduction	2D & 3D Digital Noise Reduction
SNR	≥55dB
Horizontal FOV	60.7° ~ 3.36°
Vertical FOV	34.1° ~ 1.89°
Pan Angle	±170°
Tilt Angle	-30° ~ +90°
Pan Speed	1.7° ~ 100°/s
Tilt Speed	1.7° ~ 69.9°/s
Image Flip	Support
Image Freeze	Support

Preset Position	255
Preset Accuracy	0.1°

Audio Features

Microphone Array	Built-in dual microphones, 100Hz to 16KHz frequency response
Audio Input	Support LINE IN audio input
Audio Output	Support LINE OUT, HDMI, USB and other audio output

USB Features

Operate System	Windows 7/8/10, Mac OS X, Linux, Android
Color System / Compression	YUY2/MJPEG/H.264
USB Audio	Support
USB Video Protocol	UVC 1.1/UVC 1.5
UVC PTZ Control	Support

Network Features

Video Compression	H.264/H.265
Video Stream	First Stream, Second Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second Stream Resolution	1280x720, 1024x576, 720x480, 640x360, 480x272, 320x240, 320x180
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Control	CBR, VBR
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI(optional), TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF,

DHCP, SRT, Multicast

Interfaces

LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface
LINE OUT Interface	1 x LINE OUT: 3.5mm Audio Interface
Communication Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
	1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
Network Interface	1 x LAN: 10M/100M Adaptive Ethernet Port
HDMI Interface	1 x HDMI: Version 1.3
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75Ω. Along to SMPTE 424M standard
USB Interface	1 x USB 3.0: Type A
Power Jack	JEITA type (DC IN 12V)

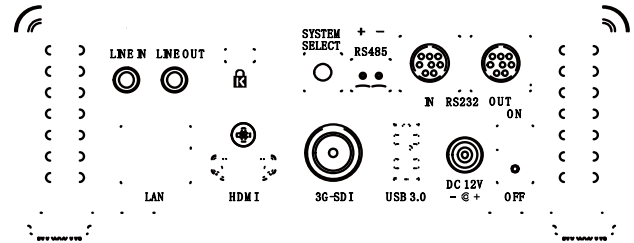
General Specifications

Input Voltage	DC 12V
Input Current	Max. 1.2A
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	Max. 15W
Dimension	146mm x 169mm x 168mm
Net Weight	About 1.5Kg



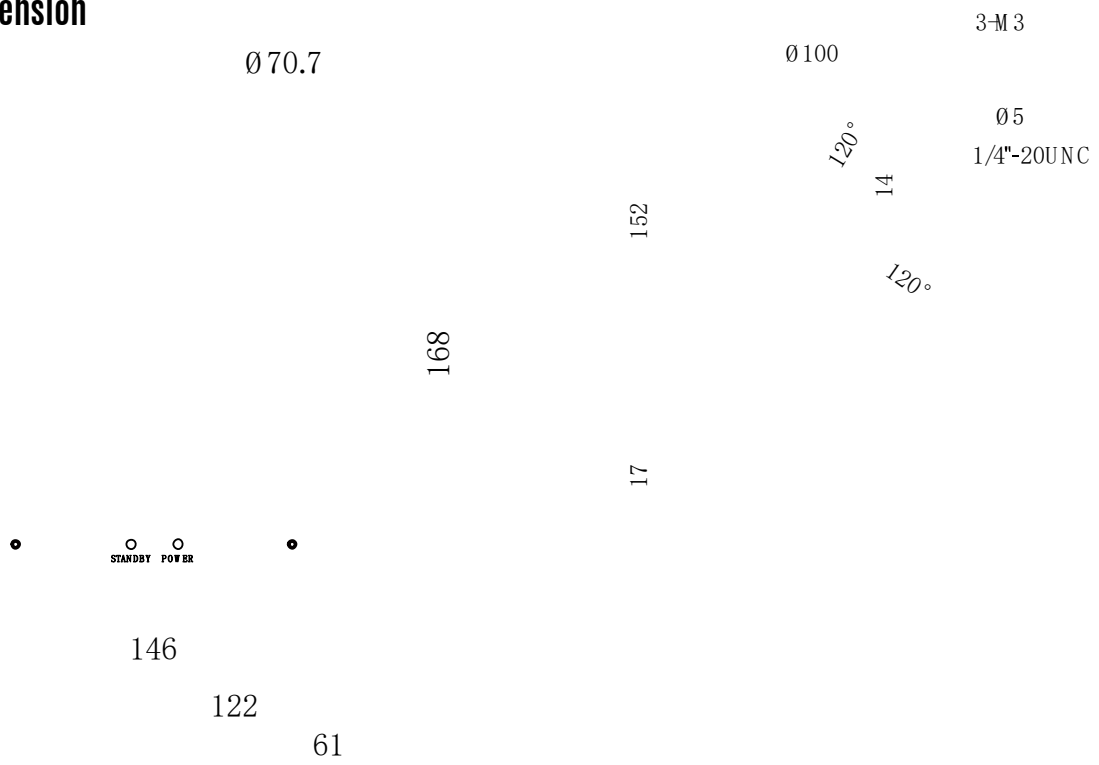
Note

Product specifications and parameters are subject to change without notice.

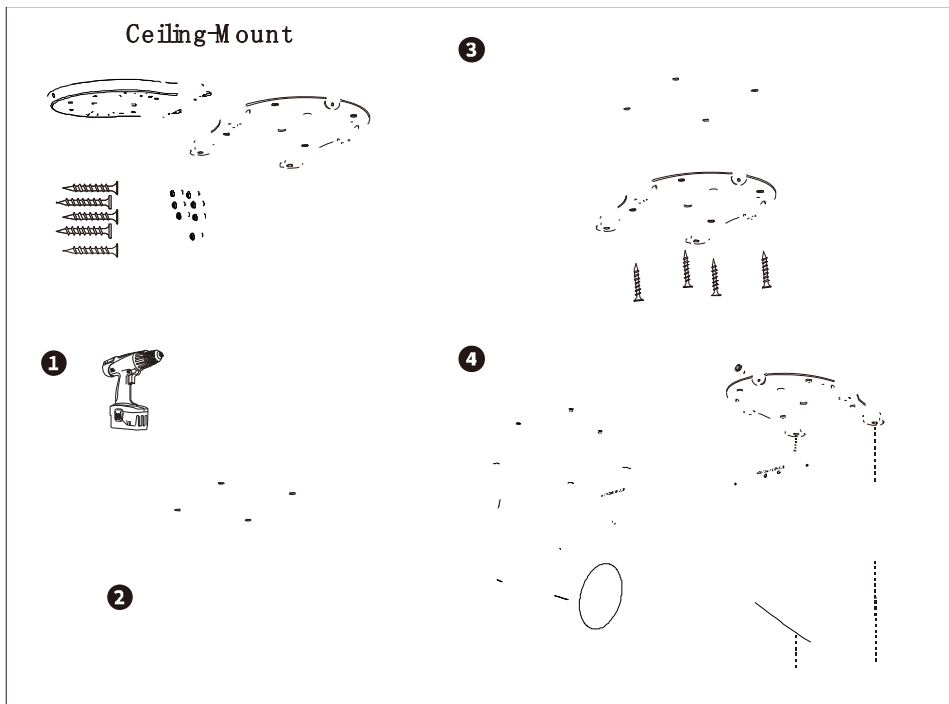
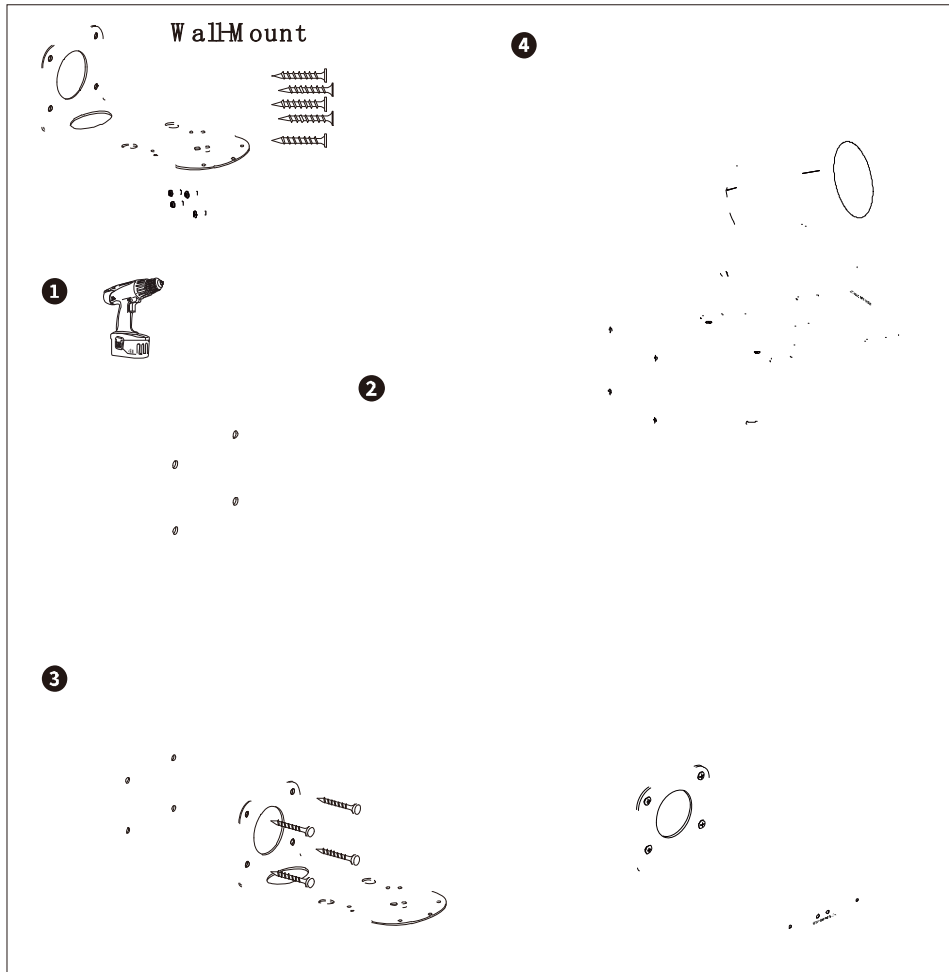
5.3 Interface and Switch

Item	Description
1	LINE IN Interface
2	LINE OUT Interface
3	Security Slot
4	System Select Switch
5	RS485 Interface
6	RS232 IN Interface
7	RS232 OUT Interface
8	LAN Interface
9	HDMI Interface
10	3G-SDI Interface
11	USB 3.0 Interface
12	DC 12V Interface
13	Power Switch

5.4 Dimension



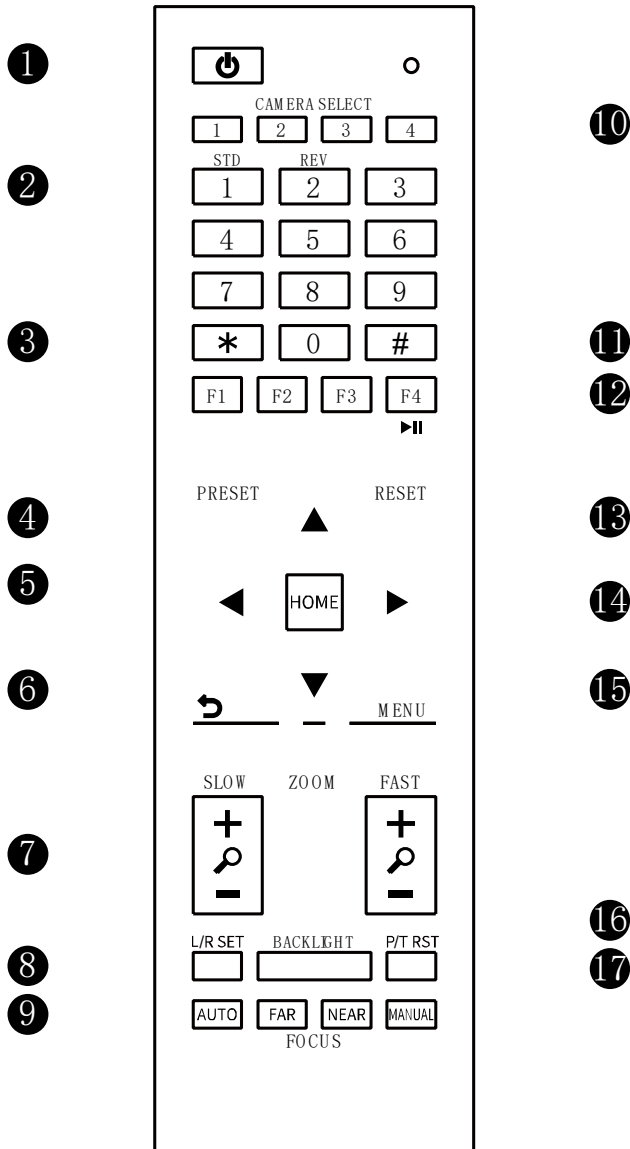
5.5 Installation



The installation diagram is for reference only. The brackets and screws are not standard.

For packing accessories, please refer to the actual product.

5.6 Remote Control



Key Description

1. Standby Key

Press to enter standby mode

2. Number Key

Press to set preset or call preset

3. *Key

Use with other keys

4. PRESET Key

Set preset: [PRESET] + Number key (0-9)

5. HOME Key

Confirm selection or press to turn PTZ back to the middle position

6. Return Key

Press to return to the previous menu

7. ZOOM Key

- SLOW: Zoom In [+] or Zoom Out [-] slowly
- FAST: Zoom In [+] or Zoom Out [-] fast

8. L/R SET Key

- Standard: Simultaneously press L/R SET + 1
- Reverse: Simultaneously press L/R SET + 2

9. FOCUS Key

Auto/Manual/Far/Near focus

10. CAMERA SELECT Key

Press to select and control the camera

11. # Key

Use with other keys

12. IR Remote Control Key

- [*]+[#]+[F1]: Address 1
- [*]+[#]+[F2]: Address 2
- [*]+[#]+[F3]: Address 3
- [*]+[#]+[F4]: Address 4

13. RESET Key

Clear preset position: [RESET] + Number key (0-9)

14. PTZ Control Key

PTZ moved according to the arrow indicates

15. MENU Key

Press to enter or exit OSD Menu

16. BACKLIGHT Key

Backlight ON/OFF: Press repeatedly to enable or disable the backlight compensation.

NOTE:

- Effective only in auto exposure mode.
- If there is a light behind the subject, the subject will become dark, press the backlight key to enable the backlight compensation. Press again to disable this function.

17. P/T RST (PTZ Reset) Key

PTZ starts to self-test after pressed it

Shortcut Set

- [*]+[#]+[1]: OSD menu default English
- [*]+[#]+[3]: OSD menu default Chinese
- [*]+[#]+[4]: Display current IP address
- [*]+[#]+[6]: Quickly recover the default
- [*]+[#]+[8]: View the camera version

[*]+[#]+[9]: Quickly set up inversion
 [*]+[#]+[MANUAL]: Restore default IP
 address

6 GUI Settings

6.1 Menu

Press [MENU] key to display the main menu on the normal screen, using arrow key to move the cursor to the item to be set. Press the [HOME] key to enter the corresponding sub-menu.

Menu	
ENG/中文	ENG
AI MODE	Off
Video Format	1080P60
Style	Default
Exposure	->
Color	->
Image	->
Display	->
PTZ Setting	->
Setting	->
Version	->
Default	->
[MENU] Return / [HOME] Enter	

ENG/中文: ENG, 中文.

AI MODE: Off, Single Track, Frame Track, Demo Mode.

Video Format: 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P25, 720P60, 720P50.

Style: Default, Cold, Warm, Clear, Soft, User1, User2, User3.

6.2 Exposure

Move the main menu cursor to [Exposure],

and press [HOME] key enter the exposure

page, as shown in the following figure.

Exposure		
>	AE	Auto
	Flicker	50Hz
	Expcomp	On

Exposure	
Mode	
Expmode	2
Backlight	Off
Gain Limit	15
DRC Mode	Off
[MENU] Return / [HOME] Enter	

Color	
>	AWB Auto
	Sens Low
	R-Tuning 0
	B-Tuning 0
	Hue 50
	Saturation 100
[MENU] Return / [HOME] Enter	

AE: Auto, Manual, Iris Priority, Shutter Priority, Bright Priority.

Flicker: Off, 50Hz, 60Hz (Effective only in Auto, Iris Priority, Bright Priority mode).

Expcomp Mode: On, Off (Effective only in Auto, Iris Priority mode).

Expmode: -7~7 (Effective only in Expcomp Mode to On).

Backlight: On, Off (Effective only in Auto, Iris Priority mode).

Bright: 0~99 (Effective only in Bright Priority mode).

Gain Limit: 0~32 (Effective only in Auto, Iris Priority, Bright Priority mode).

Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11, Off (Effective only in Manual, Iris Priority mode).

Shutter: 1/30, 1/50, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (Effective only in Manual, Shutter Priority mode).

Gain: 0~31 (Effective only in Manual, Shutter Priority mode).

DRC Mode: Manual, Auto, Off.

DRC: 0~14 (Effective only in DRC Mode to Manual).

6.3 Color

Move the main menu cursor to [Color], and press [HOME] key enter the color page, as shown in the following figure.

Color

AWB: Auto, VAR, Manual, One Push, Indoor, Outdoor.

Sens: Low, Middle, High.

R-Gain: 0~1023 (Effective only in Manual, One Push mode).

B-Gain: 0~1023 (Effective only in Manual, One Push mode).

R-Tuning: -128~128 (Effective only in Auto, Temp, One Push mode).

B-Tuning: -128~128 (Effective only in Auto, Temp, One Push mode).

Hue: 0~99.

Saturation: 0~200.

Temp: 2000 ~ 8500 (Effective only in Temp mode).

6.4 Image

Move the main menu cursor to [Image], and press [HOME] key enter the image page, as shown in the following figure.

Image	
>	Brightness 50
	Contrast 50
	Sharpness Auto
	Mode
	Gamma Mode Manual
	Gamma Ext
	NR-2D Mode Auto
	NR-3D Mode Auto
[MENU] Return / [HOME] Enter	

Brightness: 0~99.

Contrast: 0~99.

Sharpness Mode: Manual, Auto.

Sharpness: 0~25 (Effective only in Sharpness Mode to Manual).

Gamma Mode: Manual, Auto.

Gamma: Ext, 0.45, 0.5, 0.54, 0.56, 0.63 (Effective only in Gamma Mode to Manual).

NR-2D Mode: Manual, Auto.

NR-2D: 0~99 (Effective only in NR-2D Mode to Manual).

NR-3D Mode: Manual, Auto.

NR-3D: 0~15 (Effective only in NR-3D Mode to Manual).

6.5 Display

Move the main menu cursor to [Display], and press [HOME] key enter the display page, as shown in the following figure.

Display		
>	OSD-Dir	0
	Frac Rate	Off
	HDMI Mode	HDMI
	SDI Mode	Level A
	Flip-H	Off
	Flip-V	Off
	Freeze	Off
[MENU] Return / [HOME] Enter		

OSD-Dir: 0, 90, 180, 270.

Frac Rate: On, Off.

HDMI Mode: HDMI, DVI.

SDI Mode: Level A, Level B.

Flip-H: On, Off.

Flip-V: On, Off.

Freeze: On, Off.

6.6 P/T/Z Setting

Move the main menu cursor to [P/T/Z Setting], and press [HOME] key enter the P/T/Z setting page, as shown in the following figure.

P/T/Z Setting		
>	AF-Sense	High
	AF-Zone	Front
	Focus Limit	Off
	LR Mode	STD
	Motion Sync	Off
	Horizontal Speed	23
	Vertical Speed	19
	Zoom Speed	7
	PTbyZoom	On
[MENU] Return / [HOME] Enter		

AF-Sense: High, Normal, Low.

AF-Zone: Front, Top, Center, Bottom.

Focus Limit: On, Off.

Near Focus Limit: 1M, 1.5M, 2M, 3M,

4M, 5M, 6M, 8M, 10M, 15M, 20M
 (Effective only in Focus Limit to On).
Far Focus Limit: 15M, 20M, Infinity
 (Effective only in Focus Limit to On).
LR Mode: STD, REV.
Motion Sync: On, Off.
Horizontal Speed: 0~23.
Vertical Speed: 0~19.
Zoom Speed: 0~7.
PTbyZoom: On, Off.

6.7 Setting

Move the main menu cursor to [Setting],
 and press [HOME] key enter the setting
 page,

as shown in the following figure.

Setting	
>	Visca 1
	Addr
	Visca Series
	Mode
	Baud 9600
	Rate
	DHCP Off
	IP 192.168.100.88
	Addr
	MAC d4e08e548d13
[MENU] Return / [HOME]	
Enter	

Visca Addr: 1~7 (Effective only in VISCA
 protocol).

Visca Mode: Serial, Paral.

Baud Rate: 2400, 4800, 9600, 19200,
 38400,
 57600, 115200.

DHCP: On, Off.

IP Addr: 192.168.100.88.

MAC: d4e08e548d13.

6.8 Version

Move the main menu cursor to [Version],
 and press [HOME] key enter the version
 page, as shown in the following figure.

Version

Version	
Main	X8.02.15
AF	14.04.04
Date	2022-08-18
Code	VF1
NDI	Okay
License	
[MENU] Return / [HOME]	
Enter	

Main: Display the version number of the
 main program of the camera.

AF: Display the camera autofocus version number.

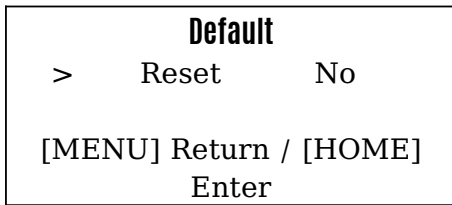
Date: Display the burning date of the main program version of the camera.

Code: Display the camera code.

NDI License: Display NDI license verification results.(optional)

6.9 Default

Move the main menu cursor to [Default], press [HOME] key enter default page, as shown in the following figure.



Reset: Yes, No.



GUI menu and parameters are subject to change without notice.

7 WEB Settings

7.1 Access Camera

Access <http://192.168.100.88> to pop up the login window, then input username (default: admin) and password (default: admin). After login, it will show as below:



7.2 Control Camera

All pages include two menu bars:
Real time monitoring: displaying video image
Parameter setup: with function buttons.

A. Video Viewing Window

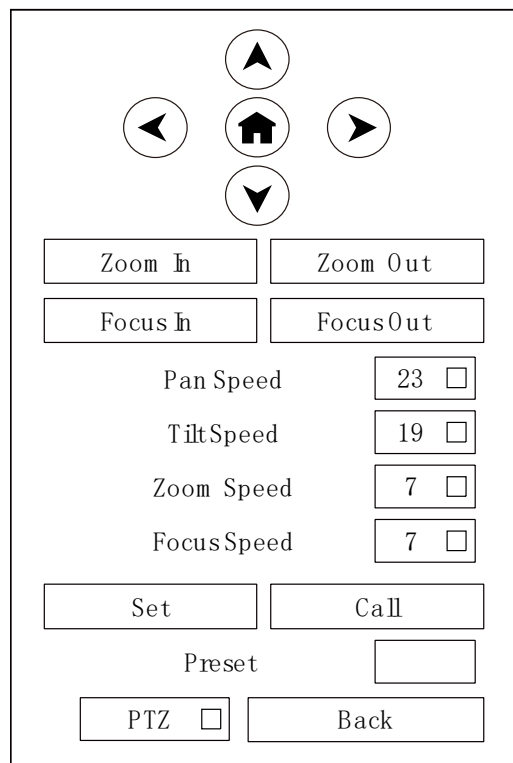
Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, will show full-screen, double click again, will return to initialized size.

Status bar in viewing window shown as below:



- 1) Video playback pause button: control real-time video pause, stop the last picture, click recoverable video again.
- 2) Audio control buttons: can adjust the volume or set silent mode.
- 3) Full screen switch button.

B. PTZ Setup



- 1) **Pan and Tilt Control**
Up, Down, Left and Right arrows and the

home button allow you to manually drive the camera to the desired position.

2) Zoom

Zoom In and Zoom Out buttons allow for wide or narrow view of the space.

3) Focus

Focus In and Focus Out buttons allow for fine manual focus adjustment if the camera has any problems auto focusing on the difficult object.

4) PTZ Speeds

Pan speed can be set at any rate between 1 ~ 24, Tilt speed can be set at any rate between 1 ~ 20. Zoom and Focus speeds can be set at any rate between 1 ~ 7.

5) PTZ Presets

After manually setting up a shot that you would like to return to later, you can save presets for quick recall of these positions. Type a number between 0 and 254 into the Preset box. Click the "Set" button to save the current location with that preset number. Click the "Call" button to cause the camera to return to that position. This enables smooth, quick and convenient control without the need to manually drive the camera.

You can set up preset that user want as below.

Method: Type preset number into the Preset box.

The diagram illustrates the PTZ Preset control interface. It consists of a rectangular container with a border. Inside, there are two buttons at the top: 'Set' on the left and 'Call' on the right. Below these buttons, the word 'Preset' is centered, and to its right is an empty rectangular input box for entering a preset number.

Preset: Optional items: 0 ~ 254.

6) PTZ/OSD Dropdown

From the dropdown menu, clicking the OSD option will open the on-screen display menu of the camera giving you control from within the IP interface.

C. Language Selection

Language	English
	中文(简)
	Русский

Click either “Chinese”, “English” or “Russian” to change the language of the webpage.

7.3 Video Settings

Video Settings

Frac Rate On Off

First stream

Encode Level

Encode Protocol

Resolution

BitRate

Frame Rate

IKey Frame Interval

Bit Rate Control

Slice Split Enable

Slice Size

Second stream

Encode Level

Encode Protocol

Resolution

BitRate

Frame Rate

IKey Frame Interval

Bit Rate Control

Slice Split Enable

Slice Size

1) **Frac Rate**

Turn On/Off Frac Rate.

2) **Encode Level**

Support baseline, mainprofile, highprofile and svc-t four levels.

3) **Encode Protocol**

Support H.264 and H.265 protocols.

4) **Resolution**

First stream support 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360. Second stream support 1280x720, 1024x576, 720x480, 640x360, 480x272, 320x240, 320x180; The bigger resolution is, the clearer the image will be, more network bandwidth will be taken.

5) **Bit Rate**

The user can specify the bit rate.

Generally speaking, the larger of the bit rate, the clearer of the image. However, the configuration of the bit rate needs to be combined with the network bandwidth. When the network bandwidth is narrow and the bit rate is configured larger, the video stream cannot be transmitted normally, and the visual effect is worse.

6) Frame Rate

User can specify the size of the frame rate, generally, the frame rate greater, the image more smooth; Frame rate is smaller, the more sense of beating.

7) I Key Frame Interval

Set interval between 2 I frame, the bigger interval is the response will be lower from viewing window.

8) Bit Rate Control

Code stream control way:

CBR (Constant Bit Rate): Video coder will be coding according to preset speed.
VBR (Variable Bit Rate): Video coder will adjust the speed based on preset speed to gain the best image quality.

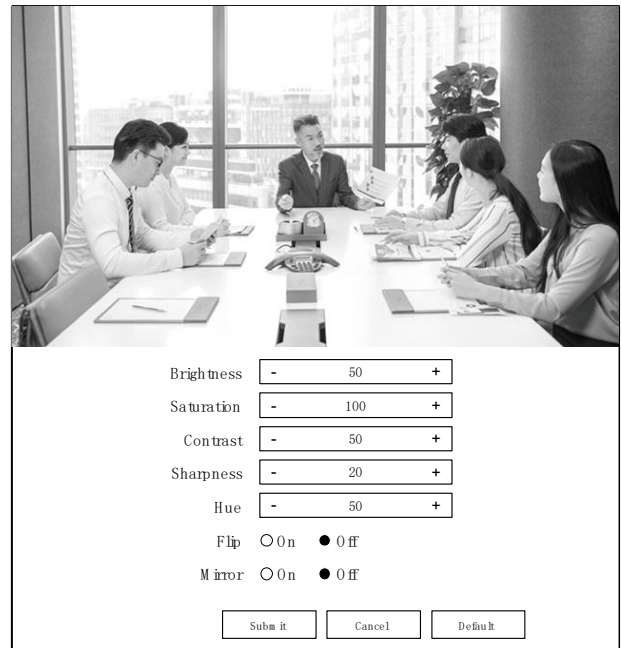
9) Slice Split Enable

Enable or disable slice split function.

10) Slice Size

Set the size of slice.

7.4 Image Settings



1) Brightness

Brightness of image: 0~99 (Default value is 50).

2) Saturation

Saturation of image: 0~200 (Default value is 100).

3) Contrast

Contrast of image: 0~99 (Default value is 50).

4) Sharpness

Sharpness of image: 0~99 (Default value is 20).

5) Hue

Hue of image: 0~99 (Default value is 50).

6) Flip

Turn On/Off the Flip function.

7) Mirror

Turn On/Off the Mirror function.

7.5 Audio Settings

Audio Settings

Audio Switch On

Audio Type AAC

Sample Rate 48K

Bit Rate 96K

Input Type LINE IN

Input Vol L 2

Input Vol R 14

1) Audio Switch

Turn On/Off audio switch.

2) Audio Type

Optional items: AAC.

3) Sample Rate

Optional items: 32K, 48K.

4) Bit Rate

Optional items: 96K, 128K, 256K.

5) Input Type

Optional items: LINE IN, MIC.

6) Input Vol L

The volume of the left channel.

7) Input Vol R

The volume of the right channel.

7.6 System Settings

Initialize

Reboot

User

UserName

Password

Guest

Password

1) Reboot

Click the "Reboot" button, system restart.

2) Username and Password

The user can modify the password (letters and Numbers only).

7.7 Network Settings

Lan Settings

IP Configuration Type Manual

IP Address

Subnet Mask

Gateway

DNS Address

MAC Address

NTP Settings

Time Zone GMT+08:00 Fuzhou, China

Server Address

Time Show On Off

Position

Subtitle Display On Off

Subtitle Content

Port Settings

HTTP Port

RTSP Port

TCP Port

UDP Port

Sony Visca

Support TCP connection then control camera, default port: 5678.

RTMP (S) Settings

First Stream On Off

MRL

Second Stream On Off

MRL

SRT Settings

SRT On Off

SRT Port

SRT Encryption

SRT Password

RTSP Settings

RTSP Auth On Off

ONVIF Settings

ONVIF On Off

ONVIF Auth On Off

1) Lan Settings

Default the IP address is 192.168.100.88, the MAC address cannot be modified.

2) NTP Settings

Setting NTP Time Zone and Server Address. Turn On/Off Time Show, set the position of the Time Show. Turn On/Off Subtitle Display, set the Subtitle Content of the camera screen.

3) Port Settings

A. HTTP Port

IP address identifies network device, the device can run multiple web applications, each network program using network port to transmit data, so data transmission to be carried out between the port and port. Port setting is to set up web server program using which port to transmit. When port mapping, need to be consistent with the port number (default port: 80).

B. RTSP Port

The camera support RTSP protocol, use the VLC tools broadcast, default port: 554.

C. TCP Port

D. UDP Port

Support UDP protocol, default port: 1259.

E. Sony Visca

Support Sony Visca, default value: 52381.

4) RTMP(S) Settings

Turn On/Off first stream or second stream, setting the MRL of RTMP.

5) SRT Settings

Turn On/Off SRT, Setting the SRT Port, SRT Encry and SRT Password.

6) RTSP Settings

Turn On/Off RTSP Auth.

7) ONVIF Settings

Turn On/Off ONVIF and ONVIF Auth.

7.8 NDI® Settings (Optional)

NDI® Settings	
NDI® HB	<input type="radio"/> On <input checked="" type="radio"/> Off
NDI License	<input type="text" value="ok"/>
Server IP	<input type="text" value="192.168.100.1"/>
Group Name	<input type="text" value="Public"/>
Key	<input type="text" value="ePNN09JW"/>
NDI® Firmware Version	<input type="text" value="v5.1.1"/>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

1) NDI®|HB

Turn On/Off NDI®|HB.

2) NDI License

Display NDI License verification results.

3) Server IP

Setting NDI® Server IP address.

4) Group Name

Setting NDI® Group Name.

5) Key

Setting NDI® Key.

6) NDI® Firmware Version

Display NDI® Firmware Version.

7.9 Device Information

Information	
Device ID	<input type="text" value="HD Camera"/>
Device Type	<input type="text" value="V.F1"/>
Software Version	<input type="text" value="X8.02.15"/>
Webware Version	<input type="text" value="v1.5.5"/>
Device Serial Number	<input type="text" value="X6v19260f6c9"/>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

7.10 Download Upgrade Program

If you need the camera upgrade program, please contact the manufacturer.



WEB interface and parameters are subject to change without notice.

8 Troubleshooting**Image**

- The monitor shows no image
 - 1) Check that the camera power supply is connected, the voltage is normal, and the power indicator light is always on.
 - 2) Turn off the power switch to check whether the camera is self-testing.
 - 3) Check the cable of video platform and TV whether correct connection.
- The video image displayed by the camera lens is jittery
 - 1) Check whether the camera installed position be stabled.
 - 2) Check whether have vibrating machinery or object near the camera.
- There is no video image in Browser

IE browser does not support H5, you need to use VLC plug-in to view videos. Please access VLC website (<http://www.videolan.org/vlc>) download and install the 32-bit VLC media player, after it installed, access camera will have normal image display. Other mainstream

browsers already support H5 and do not need to install the VLC plug-in.

- Unable to access camera through Browser
- 1) Using PC to access the network to test whether the network access can work properly, first of all, the network fault caused by the PC virus can be eliminated, until the PC and camera can communicate with each other Ping.
- 2) Disconnect the network, connect camera and PC separately, and reset the IP address of PC.
- 3) Check IP address, subnet mask, and gateway settings for camera.
- 4) Check whether the MAC address is conflicts.
- 5) Check whether the web port is modified.
- 6) The default web port is 80.
- Forget the IP address or login password

Please remember (The default IP address: 192.168.100.88; default user name: admin; default password: admin).

Control

- Remote control cannot control
- 1) Check and replace the new battery for the remote controller.
- 2) Check whether the camera working mode is correct.
- 3) Check whether the address of remote control can match the camera.
- Serial port cannot control
- 1) Check whether the camera protocol, address and baud rate such is the same.
- 2) Check whether the control line is connected well.





Buscar na loja...



CARRINHO



ACESSÓRIOS

GOPRO/ACTION CAMS

CÂMERAS

FLASHS

LENTES OBJETIVAS

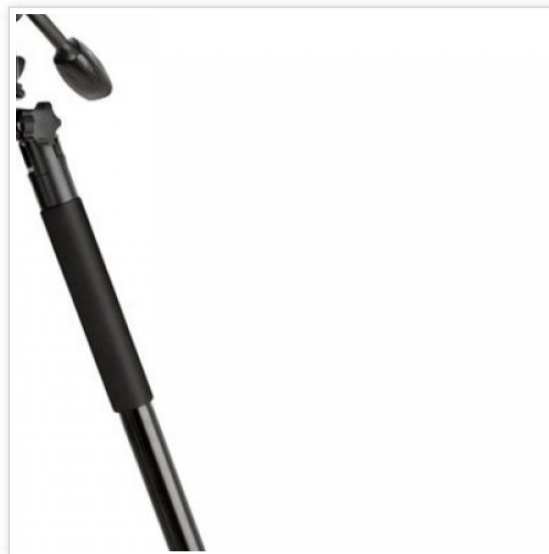
EQUIPAMENTOS DE ESTÚDIO

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PAR AMIGO



DESCRIÇÃO

O Tripé Profissional Q620 com Cabeça Panorâmica 3 Vias Alumínio até 8kg é ideal para Fotografia Filmagens e Transmissões é um tripé pequeno e portátil feito em liga de alumínio de alta qualidade para maior estabilidade estrutural possui uma altura máxima de uso de 180cm (1.8m) e mínima de 50cm.

Este Tripé Profissional com Cabeça Panorâmica que suporta equipamentos até 8kg apenas tripé suporta até 20kg. Seu sistema com placa de liberação rápida torna a montagem da Câmera Fotográfica ou Filmadora muito mais prática. O Tripé Durawell Q620 possui pernas telescópicas de 4 seções com sistema de travamento Flip-lock que permite um ajuste rápido da altura de cada perna além disso o design do eixo central permite que você ajuste a altura do tripé livremente bem como a inversão da barra para a captura de imagens em ângulos baixos.

A Cabeça Panorâmica de 3 Vias suporta movimentos multi-ângulos com o nivelador bolha e as marcas de medição de graus fica ainda mais fácil e eficaz mudar a posição vertical e horizontal da cabeça. A placa de liberação rápida adota padrão universal de rosca 1/4" alta compatibilidade e praticidade para seu equipamento.

Principais Características:

- Tripé Profissional com capacidade para equipamentos de até 8kg apenas tripé suporta até 20kg
- Cabeça Panorâmica de 3 Vias com placa de liberação rápida e parafuso de 1/4"
- Tamanho dobrado de 65cm com altura máxima de 1.8 metro e mínima de 58cm
- Sistema central com gancho de contrapeso e barra removível para uso invertido
- Pernas de 4 seções com botões de travamento para ajuste de altura
- Construção robusta feito em liga de alumínio premium pesando aproximadamente 3kg
- Perfeito para Câmeras Filmadoras Telescópios equipamentos Lasers e muito mais.
- Acompanha Bolsa de Transporte

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SOCIAL



VOLTAR AO TOPO

Considere esses itens alternativos

Câmera PTZ - 10X/20X Câmera NDI de transmissão ao vivo com rastreamento automático e saídas SDI/HDMI/IP para transmi...
 5,0 ★★★★★ 1
 R\$2.999⁰⁰

Câmera PTZ - 10X/20X Câmera NDI de transmissão ao vivo com rastreamento automático e saídas SDI/HDMI/IP para transmi...
 5,0 ★★★★★ 1
 R\$2.299⁰⁰

Eletrônicos e Tecnologia > Câmeras e Foto > Câmeras de Segurança



Chameye Câmera PTZ NDI 20x Zoom Óptico AI Auto Tracking Câmera PTZ com visor LCD, 3G-SDI IP 1080P 60fps PoE Transmissão ao Vivo HDMI PTZ Câmera para Eventos Educativos de Adoração da Igreja, C720N

Marca: Chameye
 4,5 ★★★★★ 43 avaliações de clientes | [Pesquisar nesta página](#)

Pagamentos e Segurança Política de devolução

Nenhuma opção de compra em destaque
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Estilo: **Câmera de rastreamento NDI AI 20 x**

Câmera PTZ de rastreamento AI 20x **Câmera de rastreamento NDI AI 20 x**

Câmera HDMI PTZ com zoom 30x

Marca	Chameye
Tecnologia do sensor fotográfico	CMOS
Resolução de captura de vídeo	1080p, 1080i
Distância focal máxima	88.5 Millimeters

[Ver mais](#)

Sobre este item

- **[*]** Câmera PTZ de transmissão ao vivo Chameye 20X para câmera de igreja, conferência e produção ao vivo com tecnologia NDI/HB. O NDI é ideal para transmitir vídeo de alta resolução com baixa latência, usando NDI, você pode ligar, controlar, configurar e visualizar vídeo em um único cabo Ethernet. Compatível com Vmix, OBS, Zoom, Skype e outros softwares de videoconferência e software de produção de vídeo que suportam NDI.
- A câmera PTZ HDMI de transmissão ao vivo profissional usa um sensor CMOS HD de 1/2,8 polegadas com 2,07 milhões de pixels efetivos, permitindo alcançar imagens de alta qualidade com uma resolução máxima de 1920 x 1080. A câmera HDMI PTZ Chameye pode transmitir até 4 saídas de vídeo simultaneamente, incluindo HDMI, LAN, 3G-SDI e USB 3.0. Também pode ser usada como uma câmera USB PTZ com funcionalidade Plug-and-Play, facilitando a configuração de um sistema de transmissão ao vivo ou conferência usando Zoom, Skype for Business, OBS ou vMix.
- **[* * *]** Usando tecnologia de IA atualizada, ele pode determinar com precisão a localização de uma pessoa através do reconhecimento facial, permitindo rastreamento automático e seleção automática de quadros. Com base em algoritmos avançados de IA e suporte a rastreamento humanoide, a câmera PTZ de rastreamento automático humanoide AI é perfeita para gravação e transmissão educacionais. Com reconhecimento facial e rastreamento corporal, a câmera nunca perderá o seu momento.
- Câmera Chameye PTZ com lente ultra grande angular de 60,7°, zoom óptico de 20x + zoom digital de 16x. Possui uma tela LCD que mostra o endereço IP e o status operacional, simplificando a configuração da rede. Você pode visualizar, controlar a câmera e ajustar as configurações profissionais através da página da web da câmera. O recurso PoE (Power over Ethernet) simplifica o processo de configuração, permitindo energia, controle e transmissão de vídeo/áudio usando apenas um único cabo de rede. Isso elimina a necessidade de cabos de alimentação e conexões separados, tornando a instalação mais limpa e eficiente.
- A câmera suporta HDMI, 3G-SDI, NDI e LAN para produzir 4 canais de saída de vídeo ao mesmo tempo. Com a interface 3G-SDI capaz de transmitir sinais de forma eficaz até 150 metros em uma resolução de 1080P30. Você pode usar HDMI para uma saída 3G-SDI para transmissão de longa distância, NDI para vídeo em rede e LAN para sinais adicionais — tudo simultaneamente. Esta configuração oferece flexibilidade, permitindo a distribuição de vídeo de alta definição para vários destinos sem perder qualidade ou precisar de equipamento extra.
- **[* * * * *]** Garantia de devolução do dinheiro em 30 dias sem motivo. Garantia limitada de 18 meses. Suporte vitalício ao cliente. Oferecemos suporte técnico online/assistência remota em tempo real e responderemos às perguntas dos clientes dentro de 24 horas.

[Relatar um problema com este produto](#)

Informações sobre o produto

Detalhes técnicos

Marca	Chameye
Cor correspondente	Preto
Tipo de produto	Câmera (PTZ)
Resolução de gravação	2,07 MP
Zoom óptico	20 x
Tamanho da tela	1 polegadas LCD
Estabilização de imagem	Óptico
Características especiais	Zoom óptico de 20x, NDI, Rastreamento automático de IA, Visor LCD, PoE
Distância focal	8.9 centímetros - 4.42 milímetros
Abertura de diafragma	f0 Hz
Tecnologia de conexão	USB, HDMI
Veze de aumento ou zoom	8 x
Modelo	C720N
Resolução de vídeo	1080p, 1080i
Aparelhos compatíveis	Notebook, Desktop, Tablet, Computador pessoal, Smartphone
Cor	Preto
Fabricante	Chameye
Número do modelo	C720N
Dimensões do produto	30,48 x 25,4 x 25,4 cm; 3,78 quilogramas
ASIN	B0BTBPVLR9T
Peso do produto	3,78 Kilograms
Funciona a bateria ou pilha?	Não
EAN	0735530482353

Informações adicionais

Dimensões do pacote	29.6 x 24.4 x 24.4 centímetros
Disponível para compra desde	15 abril 2024

Avaliações de clientes	4,5 ★★★★★ 43 avaliações de clientes
	4,5 de 5 estrelas

Produtos relacionados a este item

Patrocinado

Câmera PTZ HDMI 20X USB3.0 3G-SDI IP Live Streaming
 Câmera, Câmera de...
 R\$2.699⁰⁰

Câmera PTZ, câmera de sala de conferência 20X com saídas de transmissão 3G-SDI...
 R\$2.699⁰⁰

Câmera PTZ 4K com zoom óptico de 20X
 Câmera de sala de conferência HDMI...
 R\$2.199⁰⁰

HCSTVCON Câmera PTZ 4K HDMI Zoom
 óptico 20x com saídas de transmissão IP USB3.0...
 R\$2.299⁰⁰

Webcams 4K Tiny 2 com controle de voz PTZ, rastreamento AI
 multimido e foco...
 R\$1.999⁹⁹

OBSBOT Tiny 2 Lite 4K Webcam para PC,
 Câmera de Streaming PTZ com...
 R\$1.761¹²

4K Câmera de segurança externos, câmeras externas PTZ de lente dupla segurança resi...
 R\$199⁹⁹

Os clientes também visualizaram esses produtos

Câmera PTZ - 10X/20X Câmera NDI de transmissão ao vivo com rastreamento automático e saídas SDI/HDMI/IP...
 R\$2.999⁰⁰

zowielek Câmera 4K NDI/HX3 PTZ PoE, zoom óptico de 25x, saídas HDMI e SDI simultâneas, RTSP/RTMP(s)/SRT...
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 Câmera de Streaming PTZ com Rastreamento de IA com Sensor de 1/...
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Câmera PTZ com zoom óptico HDMI SDI USB Webcam IP Live Streaming 1080P 60fps com suporte a PoE para...
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Câmera PTZ com zoom óptico de 10x Câmera de sala de videoconferência USB 1080P para reuniões de negócios e serviços ...
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Da marca

A Chameye é uma empresa de tecnologia inovadora focada em câmeras PTZ de vídeo ao vivo, como câmera NDI PTZ, câmera HDMI PTZ, câmera AI PTZ.

Guiados pelas necessidades dos clientes, com pesquisa e desenvolvimento mais previsíveis e transformação mais eficiente de conquistas técnicas, criaremos produtos e soluções de comunicação de áudio e vídeo de alta qualidade e econômicos para fabricantes de marcas, integradores de sistemas, revendedores e usuários finais.

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Produtos relacionados a este item

Patrocinado

Câmera NDI PTZ, Câmera HDMI 20X USB3.0 3G-SDI IP Live Streaming
 Câmera de...
 R\$3.499⁰⁰

Câmera PTZ 4K com zoom óptico de 20X
 Câmera de sala de conferência HDMI...
 R\$2.199⁰⁰

Webcams 4K Tiny 2 com controle de voz PTZ, rastreamento AI
 multimido e foco...
 R\$1.999⁹⁹

OBSBOT Tiny 2 Lite 4K Webcam para PC,
 Câmera de Streaming PTZ com...
 R\$1.761¹²

HCSTVCON Câmera PTZ 4K HDMI Zoom
 óptico 20x com saídas de transmissão IP USB3.0...
 R\$2.299⁰⁰

4K Câmera de segurança externos, câmeras externas PTZ de lente dupla segurança resi...
 R\$199⁹⁹

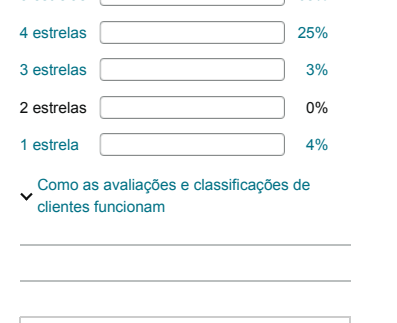
Câmera PTZ - 10X/20X Câmera NDI de transmissão ao vivo com rastreamento...
 R\$2.999⁰⁰

Apple iPhone 15 Pro Max (512 GB) — Titânio natural

★★★★★ 445

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Avaliação de clientes



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Richard J. Depaso

★★★★★ **The picture quality and support is great**
 Avaliado nos Estados Unidos em 25 de janeiro de 2024
Compra verificada

We own several different brands of PTZ cameras and have great relations with all the manufacturers. This camera appears to be a newer generation than some of our others and the picture quality and low-light performance stand out. This also can follow a person - auto tracking- which is useful. Customer support responds within a day. I'm sure they would even respond sooner but time zones prevent that.

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William M

★★★★★ **AI tracking works an absolute dream!**
 Avaliado no Reino Unido em 22 de julho de 2024
Estilo: Câmera PTZ de rastreamento AI 20x | Análise do cliente Vine de produto gratuito (O que é isso?)

This is my first time trying out one of these types of cameras, so it's pretty impressive product design than I was able to use it with no issues at all right from the start! The setup process is fairly simple, with multiple connection options and being plug and play on many systems.

The AI tracking works shockingly well, and didn't really seem to fail at any point during my (admittedly non-intensive) testing at home. Picture quality seems fantastic as well, nice and clear with good handling of lighting, and the zoom was incredibly impressive as well.

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Marco

★★★★★ **Camera di qualità**
 Avaliado na Itália em 24 de janeiro de 2024
Compra verificada

Assolutamente funzionale, precisa, con Auto Tracking migliore di molti altri modelli anche più costosi.

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Amazon Customer

★★★★★ **Gute Kamera für Livestream-Produktionen**
 Avaliado na Alemanha em 5 de janeiro de 2024
Compra verificada

Gute PTZ-Kamera für Livestream Produktionen bei Sportveranstaltungen. Ich hatte die Kamera inzwischen schon mehrfach im Einsatz, um über LAN das Videobild per NDI in meine Streaming-Software (OBS) zu holen. Mit dem entsprechenden PTZ-Plugin für OBS lässt sich die Kamera auch direkt in der OBS-Benutzeroberfläche steuern, samt Speicherung verschiedener Einstellungen zum schnellen Bildwechsel.

Über eine WiFi-Brücke bekomme ich den NDI-Stream auch über Strecken von mehr als 50m sauber in mein OBS, nur sollte man die Einstellung "Full NDI" dabei verwenden, da die Kamera dann enorme Bitraten verwendet.

Man kann die Bitrate manuell einstellen, diese wird dann auch tatsächlich exakt auf den NDI-Stream angewendet. Weiterhin kann die Kamera SRT und weitere Streaming-Protokolle.

Per NDI ist die Latenz natürlich am besten, selbst über WiFi. Die Kamera kommt auch gut mit schlechten Lichtverhältnissen klar und man kann auch den Weißabgleich sehr gut einstellen. Top-Ergänzung zum Equipment, wenn man eigentlich als "Einzelkämpfer" mit nur einer Hauptkamera ohne ein Team das produzierte Video mit anderen Kamerarichten (Totale auf Halle).

[Ver mais](#)

Aladin

★★★★★ **Top Produkt und top Support**
 Avaliado na Alemanha em 17 de novembro de 2023
Estilo: Câmera de rastreamento NDI AI 20 x | Compra verificada

Wir haben vier Geräte im Einsatz und sind absolut zufrieden. Rückfragen vom Support werden in kürzester Zeit beantwortet. Super Kamera zu einem tollen Preis-Leistungs-Verhältnis!

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