

ClearOne®

UNITE® 260N Pro Camera



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Notices

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Contents

FCC Notices..... iii

1. Safety Precautions 1

2. Packing List 1

3. Product Information 2

4. GUI Settings 11

5. Web Settings 15

6. Record Settings 24

7. Serial Command Control 25

8. Troubleshooting 27

FCC Notices (Class A)



This device 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 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 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.

Copyright

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1. Safety Precautions

- During the installation and operation, 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.
- Do not connect multiple devices to the same power adapter (exceeding capacity of the adapter may generate excessive heat or cause fire).
- Do not rotate the camera by hand, otherwise it may cause mechanical failure.
- When installing this product on a wall or ceiling, make sure the device is installed securely and there are no obstacles within the rotation range; Do not power on until all installation steps are completed.
- To avoid heat build-up, please keep adequate ventilation around the device.
- If the device smokes, smells, or makes noises, please turn off the power and unplug the power cord immediately, and then contact the dealer.
- 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

No.	Product Description	Quantity
1	Camera	1
2	Power Adapter	1
3	RS232 Cable	1
4	USB Cable	1
5	Remote Control	1
6	User Manual	1

3. Product Information

3.1 Features

- **Full Function USB Interface**

Full featured USB Type-C interface, compatible with USB3.0 and USB2.0, supports audio and encoding output, supports UVC 1.1 protocol.

- **4K UHD**

The new high-quality 1/1.8-inch UHD CMOS sensor with 8.42 million effective pixels enables ultra-high-resolution images up to 4K (3840x2160), downward compatible with 1080P, 720P and other resolutions.

- **AI Tracking and Framing**

Built-in artificial intelligence processor, using deep learning algorithms. AI tracking can achieve smooth tracking of the human body no matter where the face is, which is perfect for object tracking scenarios in lectures, presentations and other activities. AI framing with automatic zoom and pan/tilt rotation functions, places participants at the best size and position in the video.

- **HDMI 1.4b**

Supports HDMI 1.4b and can output 4K raw video directly without compression.

- **20x Optical Zoom**

Exclusively customized high-quality with 8 million pixel sensor and ultra-wide-angle-lens. The horizontal field angle of view is up to 60.7°.

- **Low Illumination**

The new CMOS image sensor with ultra-high SNR effectively reduces image noise under low illumination. The application of 2D and 3D noise reduction algorithms greatly reduces image noise even under the condition of ultra-low illumination. It keeps the picture clean and clear with an image SNR as high as 55 dB.

- **PoE**

The Ethernet port supports PoE. Power, control, video, and audio can all be carried on a single network cable.

- **Remote Control**

The camera can be controlled remotely through the RS232, RS485, network or USB port.

- **Multiple & Complete Interfaces**

HDMI, USB3.0 and network interfaces can output 4K video simultaneously.

- **Multiple Power Supply Modes**

Simultaneously supports a DC 12V power adapter and a PoE power supply.

3.2 Product Specifications

No.	Camera	Description
1	Video System	4K30, 4K25, 1080P30, 1080P25
2	Sensor	1/1.8-inch, CMOS, Effective Pixel: 8.42M
3	Scanning Mode	Progressive
4	Lens	20x, f=4.4mm ~ 52.8mm, F1.8 ~ F2.6
5	Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
6	Shutter	1/30s ~ 1/10000s
7	White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
8	Backlight Compensation	Supported
9	Digital Noise Reduction	2D&3D Digital Noise Reduction
10	SNR	≥55dB
11	Horizontal FOV	60.7° ~ 3.36°
12	Vertical FOV	41.1° ~ 1.89°
13	Pan Angle	±170°
14	Tilt Angle	-30° ~ +90°
15	Pan Speed	1.7° ~ 100°/s
16	Tilt Speed	1.7° ~ 69.9°/s
17	Image Flip	Supported
18	Image Freeze	Supported
19	Preset Position	255
20	Preset Accuracy	0.1°

No.	USB Features	
1	Operating System	Windows 7 and later, Mac OS X, Linux, Android
2	Color System/Compression	MJPEG/YUY2
3	Video Format	YUY2: 1080P@30fps (max.) MJPEG: 2160P@30fps (max.)
4	USB Audio	Supported
5	USB Protocol	UVC v1.1
6	UVC PTZ	Supported

No.	IPC Features	
1	Video Coding Standard	H.265/H.264/MJPEG
2	Video Stream	First Stream, Second Stream
3	First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
4	Second Stream Resolution	640x360, 480x270, 320x240, 320x180
5	Video Bit Rate	32kbps ~ 26624kbps
6	Rate Control	Variable Bit Rate, Fixed Bit Rate
7	Frame Rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
8	Audio Compression Standard	AAC
9	Audio Bit Rate	96K, 128K, 256K
10	Supporting Protocols	TCP/IP, HTTP, RTSP, RTMP(S), DHCP, ONVIF, NTP and Multicast.

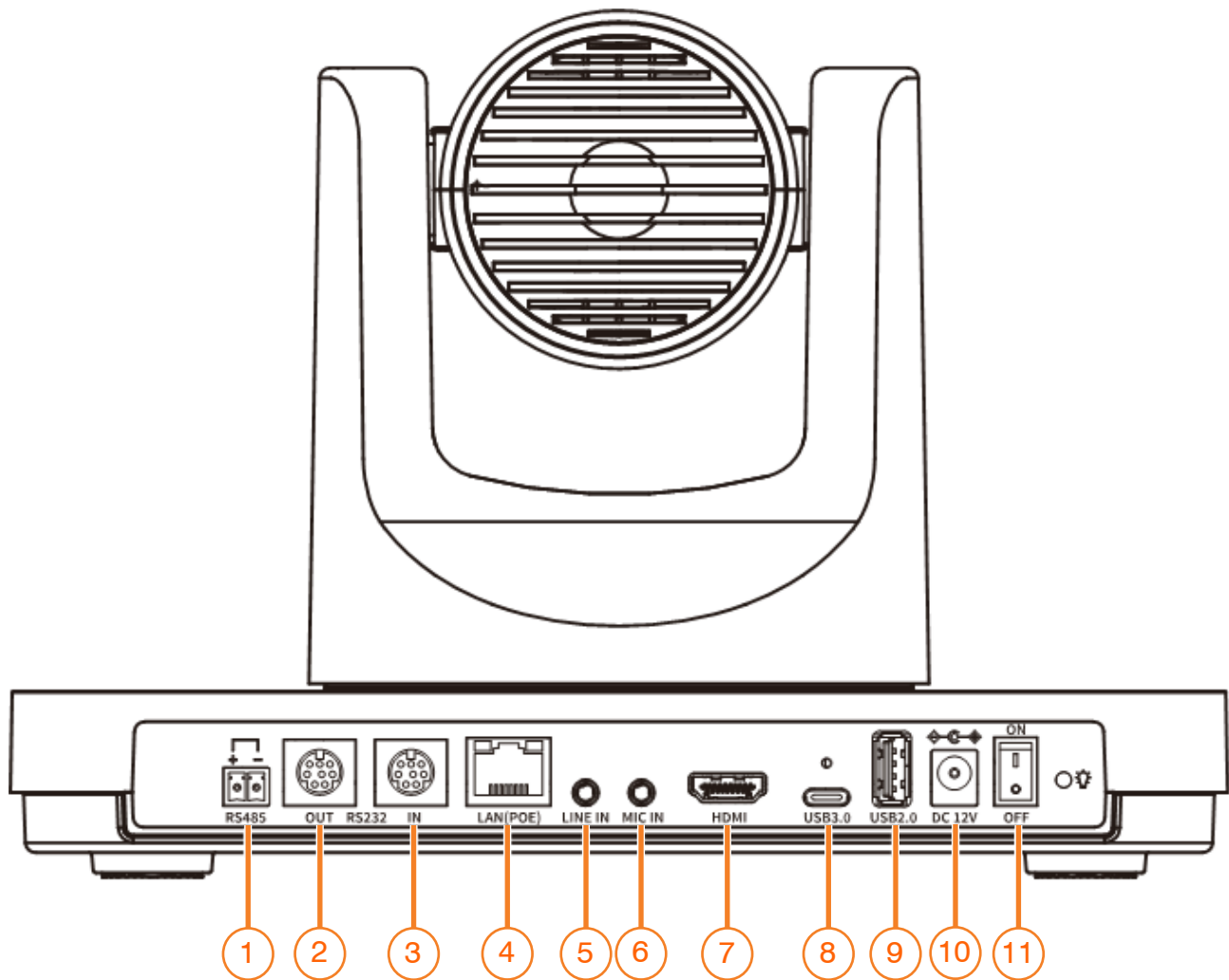
No.	Interfaces	
1	USB Interface	1 x USB3.0: Type-C
2	Video Interface	1 x USB2.0: Type-A
		1 x HDMI 1.4b
3	Network Interface	1 x LAN (POE): 10M/100M Adaptive Ethernet Port, support PoE
4	Audio Interface	1 x LINE IN: 3.5mm
5	MIC Interface	1 x MIC IN: 3.5mm
6	Communication Interface	1 x RS232 IN: 8pin min DIN; Max. Distance: 30m; Protocol: VISCA/Pelco-D/Pelco-P
		1 x RS232 OUT: 8pin min DIN; Max. Distance: 30m; Protocol: VISCA/Pelco-D/Pelco-P
		1 x RS485: 2pin phoenix port; Max. Distance: 1200m; Protocol: VISCA/Pelco-D/Pelco-P
7	Power Interface	JEITA type (DC IN 12V)

No.	General Specifications	
1	Input Voltage	DC 12V/PoE (802.3af)
2	Input Current	1.0A (max.)
3	Operating Temperature	0°C ~ 40°C
4	Storage Temperature	-40°C ~ 60°C
5	Power Consumption	12W (max.)
6	Dimension	240 x 143.8 x 171 (mm)
7	Net Weight	About 1.6Kg



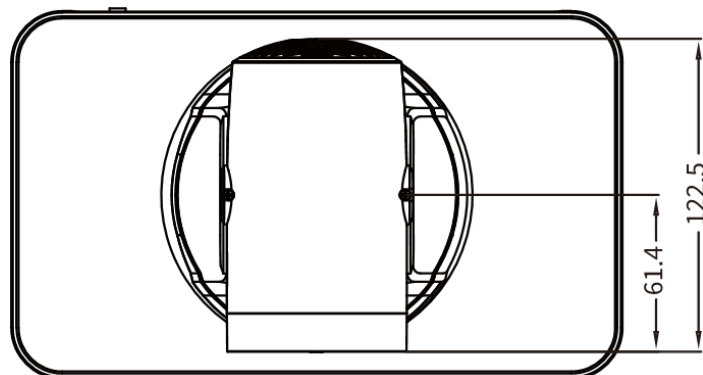
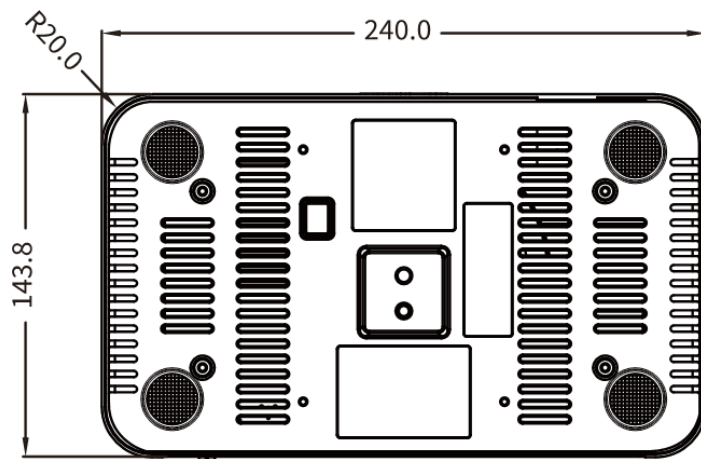
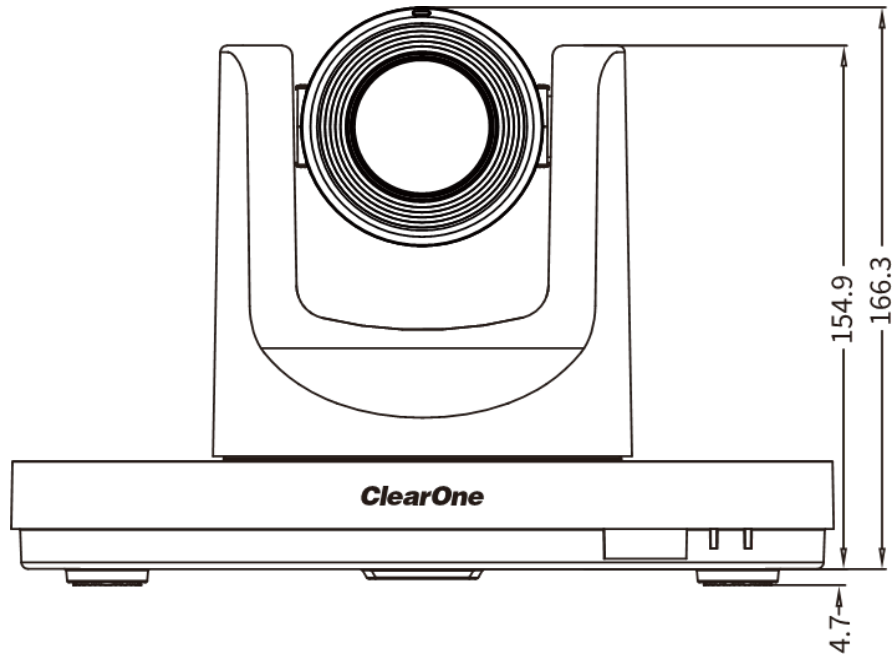
Note: Product features and specifications are subject to change without notice.

3.3 Interfaces and Buttons

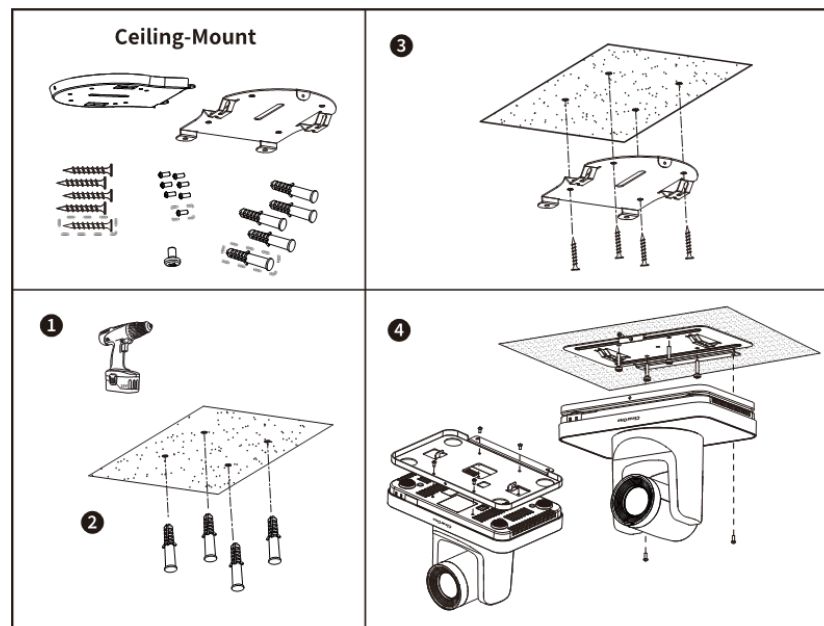
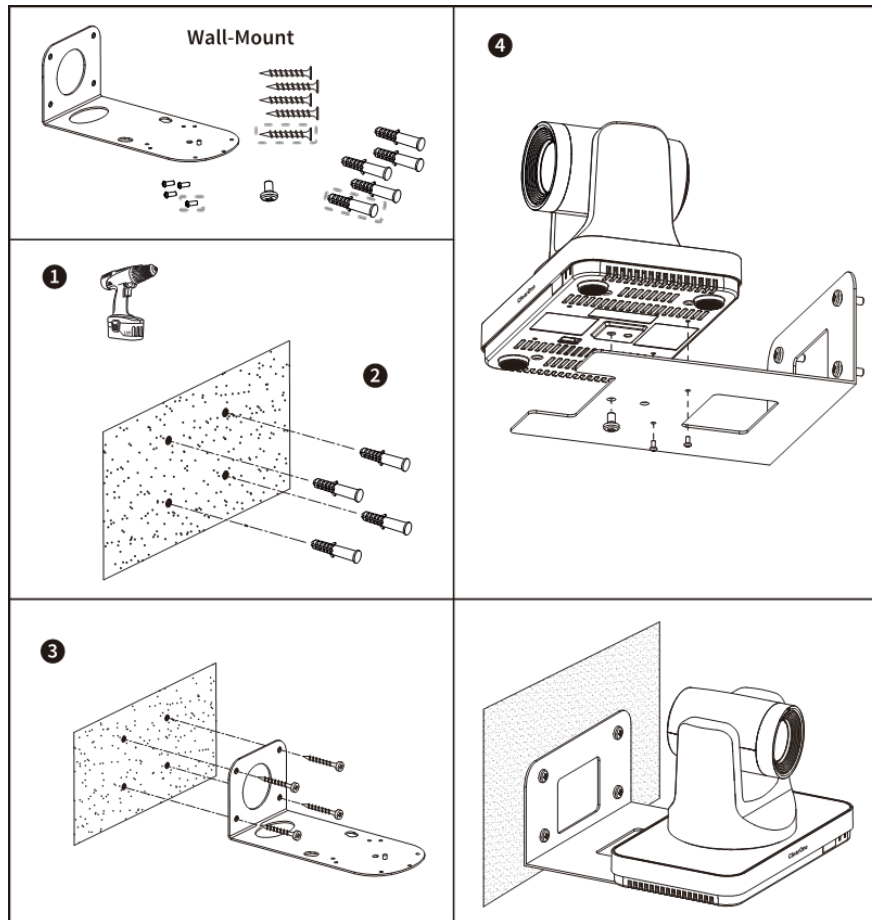



No.	Interface
1	RS485 Interface
2	RS232 OUT Interface
3	RS232 IN Interface
4	LAN (POE) Interface
5	LINE IN Interface
6	MIC IN Interface
7	HDMI Interface
8	USB3.0 Interface
9	USB2.0 Interface
10	DC 12V Interface
11	Power ON/OFF Button

3.4 Dimensions

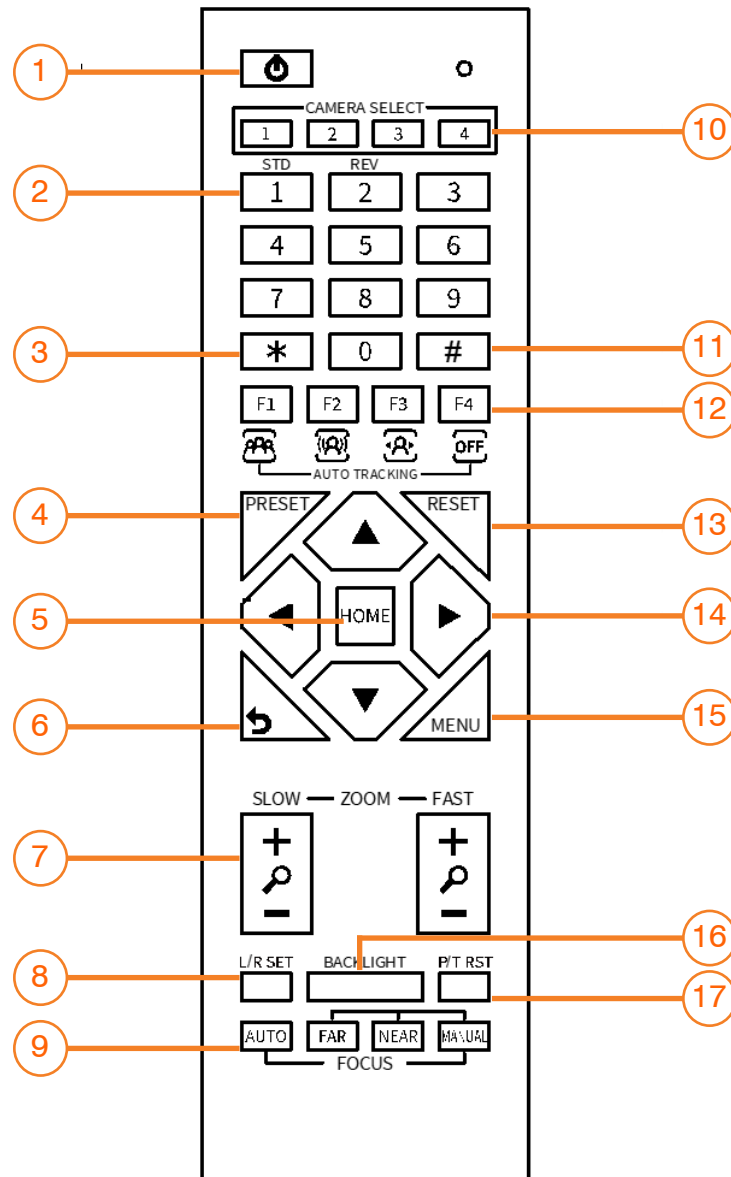


3.5 Installation



 **Note:** The installation diagram is for reference only. The brackets and screws are not standard. For packing accessories, please refer to the actual product.

3.6 Remote Control



Shortcut Set

F1: Short press to open One Push Framing mode / Long press

2s to open Auto Framing mode

F3: Short press to open Auto Tracking mode

F4: Long press 2s to close Auto Framing or Auto

- Tracking mode/Short press to stop Auto
- Framing or Auto Tracking

[*] + [#] + [1]: OSD menu default English

[*] + [#] + [3]: OSD menu default Chinese

[*] + [#] + [4]: Display current IP address

[*] + [#] + [6]: Quickly recover the default

[*] + [#] + [8]: Check the camera version

[*] + [#] + [9]: Quickly set up inversion

[*] + [#] + [MANUAL]: Restore to default IP address.

No.	Name	Function Description
1	Standby Key	Press to enter standby mode
2	Number Key	To set preset or call preset
3	*Key	Use with other keys
4	Preset Key	Preset: Setting 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	<ul style="list-style-type: none"> • SLOW: Zoom In [+] or Zoom Out [-] slowly • FAST: Zoom In [+] or Zoom Out [-] fast
8	L/R Set Key	<ul style="list-style-type: none"> • Standard: Simultaneously press L/R SET + 1 • Reverse: Simultaneously press L/R SET + 2
9	Focus Key	Auto/Manual/Far-end/Near-end 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 the preset position: [RESET] + Number key (0-9)
14	PTZ control keys	PTZ moved according to the arrow indicates
15	Menu Key	Enter or exit OSD MENU
16	Backlight Key	Backlight ON/OFF: Press repeatedly to enable or disable the backlight compensation. NOTE: <ul style="list-style-type: none"> • Effective only in auto exposure mode. • If there is a light behind the subject that causes the subject to become dark, press the backlight key to enable backlight compensation. Press again to disable this function.
17	P/T RST (PTZ Reset) Key	Press to preset Pan/Tilt self-test.

Command List

The camera uses the VISCA/Pelco-D/Pelco-P serial standard. If you need VISCA/Pelco-D/Pelco-P protocol command list details, please contact ClearOne Technical Support.

4. GUI Settings

4.1 Menu

Press the [MENU] key to display the main menu on the screen. Use the arrow key to move the cursor to a desired item and press the [HOME] key to confirm and enter the corresponding sub-menu.

▶

MENU

Exposure

Color

Image

P/T/Z

Noise Reduction

Setup

Communication Setup

Restore Default

[HOME] Enter

[MENU] Exit

4.2 Exposure

When in the main menu page, move the cursor to the [Exposure] and press the [HOME] key to confirm and enter the Exposure page as shown here.

▶

EXPOSURE

Mode

ExpCompMode

ExpComp

Backlight

Gain Limit

Anti-Flicker

Meter

DRC

Auto

On

-1

Off

6

60Hz

Average

2

▲▼

◀▶

[MENU]

Select Item

Change Value

Back

- Mode:** Auto, Manual, SAE, AAE, Bright.
- ExpCompMode:** (Exposure Compensation Mode): On, Off (Effective only in Auto mode).
- ExpComp:** (Exposure Compensation Value): -7 ~ +7 (Effective only in ExpCompMode On).
- Backlight:** On, Off (Effective only in Auto mode).
- Gain Limit:** 0 ~ 15 (Effective in Auto, SAE, AAE, Bright mode).
- Anti-Flicker:** Off, 50Hz, 60Hz (Effective in Auto, AAE, Bright mode).
- Meter:** Average, Center, Smart, Top (Effective in Auto, SAE, AAE, Bright mode).
- Iris:** F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close (Effective in Manual, AAE mode).
- Shutter:** 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1600, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (Effective in Manual, SAE mode).
- Gain:** 0 ~ 7 (Effective only in Manual mode).
- Bright:** 0~17 (Effective only in Bright mode).
- DRC:** 0 ~ 8.

4.3 Color

When in the main menu page, move the cursor to the [Color] and press the [HOME] key to confirm and enter the Color page as shown here.

WB-Mode: (White Balance Mode): Auto, Indoor, Outdoor, One Push, Manual, VAR.

RG Tuning: (Red Gain Tuning): -10 ~ +10 (Effective in Auto, One Push, VAR mode).

BG Tuning: (Blue Gain Tuning): -10 ~ +10 (Effective in Auto, One Push, VAR mode).

Saturation: 60% ~ 200%.

Hue: 0 ~ 14.

AWB Sens: (The White Balance Sensitivity): Low, Middle, High (Effective in Auto, One Push mode).

RG (Red Gain): 0~255 (Effective in Manual mode).

BG (Blue Gain): 0~255 (Effective in Manual mode).

Color Temp: 2500K ~ 8000K (Effective only in VAR mode).

COLOR		
▶	WB Mode	Auto
	RG Tuning	+1
	BG Tuning	+1
	Saturation	100%
	Hue	7
	AWB Sens	High
▲▼ Select Item		
◀▶ Change Value		
[MENU] Back		

4.4 Image

When in the main menu page, move the cursor to the [Image] and press the [HOME] key to confirm and enter the Image page as shown here.

Luminance: 0 ~ 14.

Contrast: 0 ~ 14.

Sharpness: Auto, 0 ~ 15.

Flip-H: On, Off.

Flip-V: On, Off.

B&W-Mode: On, Off.

Gamma: Ext, Default, 0.45, 0.5, 0.56, 0.63.

Style: Norm, Clarity, Bright, CStyle.

IMAGE		
▶	Luminance	7
	Contrast	7
	Sharpness	6
	Flip-H	Off
	Flip-V	Off
	B&W-Mode	Off
	Gamma	0.5
	Style	CStyle
▲▼ Select Item		
◀▶ Change Value		
[MENU] Back		

4.5 P/T/Z

When in the main menu page, move the cursor to the [P/T/Z] and press the [HOME] key to confirm and enter the P/T/Z page as shown here.

Speed By Zoom (The Depth of Field Ratio): On, Off.

AF-Zone (Auto Focus Area): Front, Top, Center, Bottom.

AF-Sense (Auto Focus Sensitivity): Low, Normal, High.

Display Info: On, Off.

Call Preset Speed: 1 ~ 24.

Pre Zoom Speed: 0 ~ 7.

P/T/Z		
▶	SpeedByZoom	On
	AF-Zone	Front
	AF-Sense	High
	Display Info	On
	Call Preset Speed	18
	Pre-Zoom Speed	5
▲▼ Select Item		
◀▶ Change Value		
[MENU] Back		

4.6 Noise Reduction

When in the main menu page, move the cursor to the [Noise Reduction] and press the [HOME] key to confirm and enter the Noise Reduction page as shown here.

NR2D-Level (2D Noise Reduction): Auto, Off, 1 ~ 5.

NR3D-Level (3D Noise Reduction): Auto, Off, 1 ~ 8.

NOISE REDUCTION		
▶	NR2D-Level	Auto
	NR3D-Level	Auto
▲▼ Select Item		
◀▶ Change Value		
[MENU] Back		

4.7 Setup

When in the main menu page, move the cursor to the [Setup] and press the [HOME] key to confirm and enter the Setup page as shown here.

Language: English, Chinese, Russian.

Video Format: 4K30, 4K25, 1080P30, 1080P25.

USB Audio: On, Off.

Standby Mode: On, Off.

Wakeup Pos: Pos0, Pos UVC (Effective only in Standby Mode On).

UVC H264: On, Off.

Tally Mode: On, Off.

Track Mode: Manual, Frame, Track.

SETUP		
▶	Language	EN
	Video Format	1080P30
	USB Audio	On
	Standby Mode	Off
	UVC H264	On
	Tally Mode	On
	Track Mode	Manual
▲▼ Select Item		
◀▶ Change Value		
[HOME] OK		
[MENU] Back		

 **Note:** The setting of USB Format, USB Mode and UVC H264 will take effect after press the [HOME] key to confirm to restart the device.

4.8 Communication Setup

When in the main menu page, move the cursor to the [Communication Setup] and press the [HOME] key to confirm and enter the Communication Setup page as shown here.

Protocol: Auto, VISCA, PELCO-D, PELCO-P.

V_Address: 1 ~ 7 (Effective in Auto, VISCA protocol).

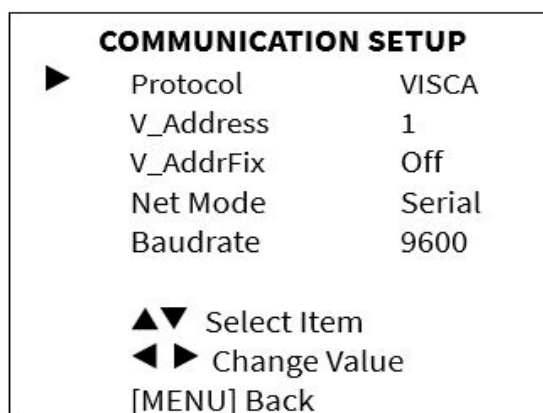
V_AddrFix: On, Off (When set to On, the 88 30 01 FF command does not work. Effective in Auto, VISCA protocol).

P_D_Address: 0 ~ 254 (Effective in Auto, PELCO-D protocol).

P_P_Address: 0 ~ 31 (Effective in Auto, PELCO-P protocol).

Net Mode: Serial, Paral (Effective in Auto, VISCA protocol).

Baudrate: 2400, 4800, 9600, 38400.



4.9 Restore Default

When in the main menu page, move the cursor to the [Restore Default] and press the [HOME] key to confirm and enter the Restore Default page as shown here.

Restore: Yes, No.



Notice

When “Yes” is selected and confirmed with the [HOME] key, all parameters will be restored to their default values, including the IR Remote address and VISCA address.

 **Note:** GUI menu and parameters are subject to change without notice.

5. Web Settings

New features. Check your version

Unite 260N new features are only available with firmware versions 9.1.21 or higher.

To check your firmware version please:

Press [*] + [#] + [8] or go to the camera website and check it under Information menu.

5.1 Access Camera

Access <http://192.168.19.8> to pop up the login window, then input username (default: admin) and password (default: admin). After login, it will show as:



This option is disabled by default. Only users with administrator credentials (as described in the previous point) can enable or disable it when a USB key is connected.

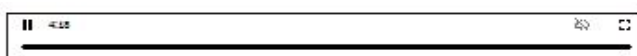


5.2 Control Camera

All pages include two menu bars:

Real Time Monitoring: Video image displaying with function buttons.

Parameter Setup: Parameter configuring.



A. Video Viewing Window

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

Status bar in viewing window shown as below:

- 1) Video Pause: Click to pause the real-time video, click again to resume.
- 2) Audio Control: Click to adjust the volume or mute.
- 3) Full screen switch button.

B. PTZ Setup

1) Pan and Tilt Control

The direction arrows and home button allow you to manually drive the camera to 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 button allow for fine manual focus adjustment if the camera has any auto focusing problems on difficult object. rate can be set to 0 ~ 7.

4) PTZ Speeds

Pan speed rate can be set to 1 ~ 24, Tilt speed rate can be set to 1 ~ 20. Zoom and Focus speed rate can be set to 0 ~ 7.

5) PTZ Presets

When the PTZ turns to the position that you would like to return to later, you can set presets for quick recall.

Type a number (0 ~ 254) into the preset box and click “Set” button to save.

When the PTZ turn to other position, input the preset number and click “Call” button to turn the PTZ back to the preset position.

6) PTZ/OSD

Move the cursor to dropdown menu, select and click “OSD” to open the on-screen menu and do menu settings on the interface.

The PTZ Setup interface includes the following elements:

- Navigation Buttons:** Four circular buttons with arrows pointing up, down, left, and right, and a central square button with a house icon (Home).
- Zoom and Focus Controls:** Two rows of rectangular buttons. The first row contains "Zoom In" and "Zoom Out". The second row contains "Focus In" and "Focus Out".
- Speed Settings:** Four rows of settings, each with a label and a value in a box with a dropdown arrow:
 - Pan Speed: 10
 - Tilt Speed: 10
 - Zoom Speed: 5
 - Focus Speed: 5
- Preset Management:** Two rectangular buttons labeled "Set" and "Call". Below them is a label "Preset" followed by an empty rectangular input box.
- PTZ/OSD Toggle:** A rectangular button labeled "PTZ" with a checked checkbox icon.
- Back Button:** A rectangular button labeled "Back".

C. Language Setting

Click to select “Simplified Chinese”, “English”, “Russian” or “Traditional Chinese” to change the language of the webpage.

The Language selection interface shows a dropdown menu with the following options:

- 中文 (簡)
- English
- Русский
- 中文 (繁)

The label "Language" is positioned to the left of the dropdown menu.

D. Focus Mode

Change Focus Mode between Auto and Manual.

The Focus Mode interface shows a dropdown menu with the following options:

- Auto

The label "Focus Mode" is positioned to the left of the dropdown menu.

5.3 Video Setting

1) Video Format

Support 50Hz (PAL) and 60Hz (NTSC) formats.

2) Encode Level

Support baseline, main-profile and high-profile.

3) Encode Codec

Support H264, H265 and MJPEG.

4) Resolution

First stream support 3840x2160, 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360; Second stream support 640x360, 480x272, 320x240, 320x180. The bigger the resolution, the clearer the image, and the larger the code stream, the more network bandwidth will be taken.

5) Bit Rate

You can specify the bit rate, the larger of the bit rate, the clearer of the image. 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 will be worse.

6) Frame Rate

You can specify the size of the frame rate, the greater the frame rate, the smoother the image, the smaller the frame, the more sense of beating.

7) Key Frame Interval

Set the interval between two frames, the bigger the interval, the slower the response when opening the image for the first time.

8) Bit Rate Control

Two modes for bit rate control:

CBR (Constant Bit Rate): Video coder will be coding according to the 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

Select to turn On/Off the Slice Split Enable function.

10) Split Mode

Split Mode Fixed bytes.

11) Slice Size

Size for slice.

Video Settings

Video Format

50Hz

Encode Level

mainprofile

First Stream

Encode Codec

H264

Resolution

3840x2160

Bit Rate

8096

Frame Rate

25

fps

I Key Frame Interval

25

Bit Rate Control

CBR

Slice Split Enable

Off

Split Mode

Fixed bytes

Slice Size

32

blocks/bytes

Second Stream

Encode Codec

H264

Resolution

320x240

Bit Rate

1024

Frame Rate

25

fps

I Key Frame Interval

25

Bit Rate Control

CBR

Slice Split Enable

Off

Split Mode

Fixed bytes

Slice Size

57600

blocks/bytes

Submit

Cancel

5.4 Image Setting

1) Brightness

Image Bright: 0~14 (Default is 7).

2) Saturation

Image Saturation: 0~14 (Default is 4).

3) Contrast

Image Contrast: 0~14 (Default is 7).

4) Sharpness

Image sharpness: 0 ~ 16 (Default is 6).

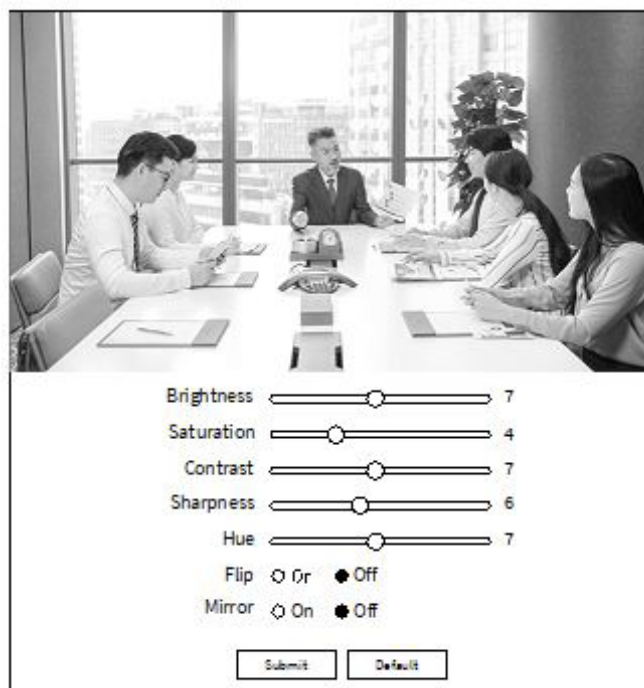
5) Hue

Image Hue: 0~14 (Default is 7).

6) Flip & Mirror

Flip: Select to turn On/Off the Flip function.

Mirror: Select to turn On/Off the Mirror function.



5.5 Audio Setting

1) Audio Switch

Select to turn On/Off the audio switch.

2) Audio Type

Audio type AAC.

3) Sample Rate

Sample rate 32K.

4) Bit Rate

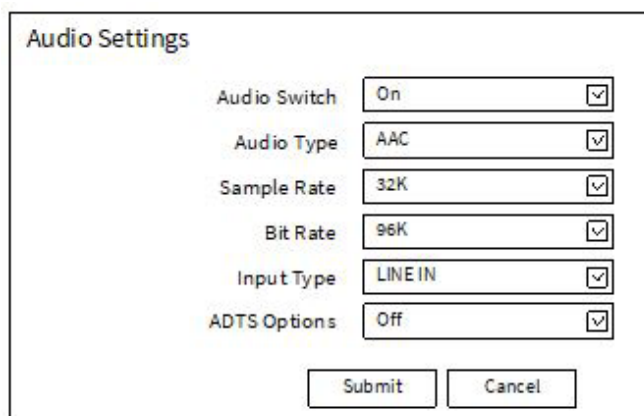
Bit rate 96K, 128K and 256K selectable.

5) Input Type

Input type Line in.

6) ADTS Options

Options: On, Off.



5.6 System Setting

1) Reboot

Click “Reboot” to restart system.

2) Username and Password

Modify the password of username and guest (use letters and Numbers only).

3) Record Settings

(*Only firmware versions 9.1.21 or higher)

Packed Time(min) is the value that will define the maximum length of your recordings in minutes.

4) USB Flash Disk Information

With this option you can check the capacity of your USB Unit as well as mount/unmount it to use it, or even format it before using it.

5.7 Network Setting

1) Lan Settings

The default the IP address is 192.168.19.8, the MAC address cannot be modified.

2) Port Settings

A. HTTP Port

The IP address identifies a network device and multiple network programs can run on the device, each network program uses the network port for data transmission. The port setting on this page is to set up which port the WEB SERVER program uses to transmit. During port mapping, it needs to be consistent with the port number (default is 80).

B. RTSP Port

Set up the RTSP port, default is 554.

C. TCP Port

Set up the TCP port, default is 5678.

D. UDP Port

Set up the UDP port, default is 1259.

E. Sony Visca

Sony Visca 52381.

3) RTMP(S) Settings

Set the MRL of RTMP(S) and select “on”, “off”, “video” and “audio” functions to enable or disable video and audio in the two streams.

4) SRT Settings

Turn On/Off SRT and set up the SRT Mode, Sever, Port, Encryption, Password, Bandwidth Overhead, Variable Latency and StreamId.

5) RTSP Settings

Turn On/Off the RTSP Auth.

6) ONVIF Settings

Turn On/Off the ONVIF and ONVIF Auth.

7) Multicast Settings

Turn On/Off Multicast, set up the Multicast Address (default is 224.1.2.3) and Port (default is 6688; 6688 is the multicast port of first stream and 6690 is the multicast port of second stream).

8) NTP Settings

Turn On/Off NTP time sync, Main time show and Sub time show; select the Time Zone; set up the Server address, Time interval and the Time Show Position of the two streams.

Lan Settings

IP Configuration Type

Fixed IP Address

IP Address

192.168.100.88

Subnet Mask

255.255.255.0

Gateway

192.168.100.1

DNS Address

8.8.8.8

MAC Address

D4:E0:8E:A9:73:45

Submit

Cancel

Port Settings

HTTP Port

80

RTSP Port

554

TCP Port

5678

UDP Port

1259

Sony Visca

52381

RTMP(S) Settings

First Stream

☐ On
 ☒ Off
 ☐ Video
 ☐ Audio

MRL

rtmp://192.168.100.138/live/stream0

Second Stream

☐ On
 ☒ Off
 ☐ Video
 ☐ Audio

MRL

rtmp://192.168.100.138/live/stream1

SRT Settings

SRT

☐ On
 ☒ Off

SRT Mode

Listener

SRT Server

192.0.2.1

SRT Port

4578

SRT Encryption

None

SRT Password

1234567890

SRT Bandwidth Overhead

25

SRT Variable Latency

500

SRT StreamId

#!:=admin

RTSP Settings

RTSP Auth

☐ On
 ☒ Off

ONVIF Settings

ONVIF

☐ On
 ☒ Off

ONVIF Auth

☐ On
 ☒ Off

Multicast Settings

Multicast

☐ On
 ☒ Off

Address

224.1.2.3

Port

6688

NTP Settings

NTP Time Sync

☐ On
 ☒ Off

Time Zone

(GMT+08:00) Beijing, Ch...

Server Address

cn.ntp.org.cn

Time Interval (min)

1440

Main Time Show

☐ On
 ☒ Off

Position

X

0

Y

0

Sub Time Show

☐ On
 ☒ Off

Position

X

0

Y

0

Submit

Cancel

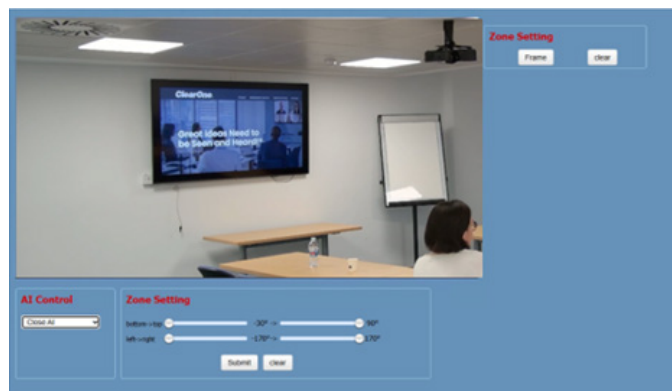
20

[Back to Table of Contents](#)

DOC-0603-001v1.0 January 2025

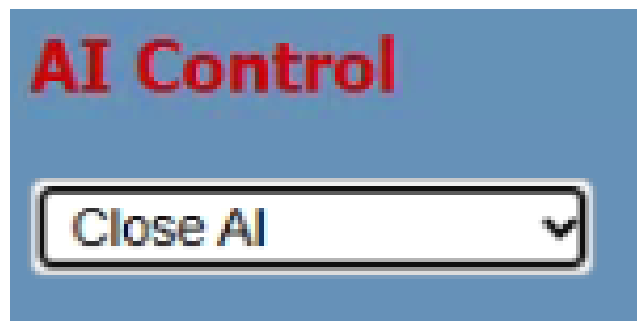
5.8 AI (Only firmware versions 9.1.21 or higher)

From this menu the camera AI can be managed from 3 different areas:



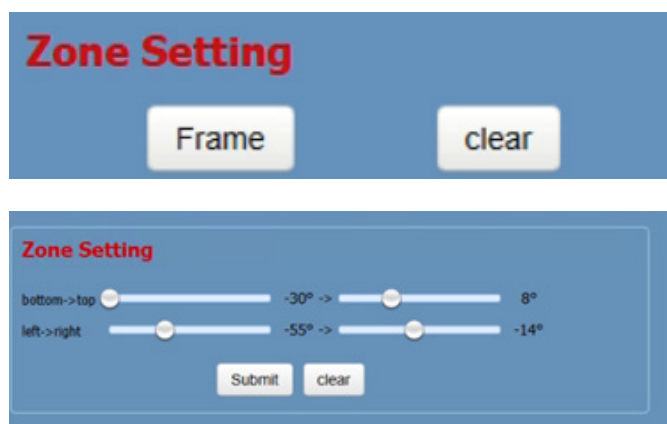
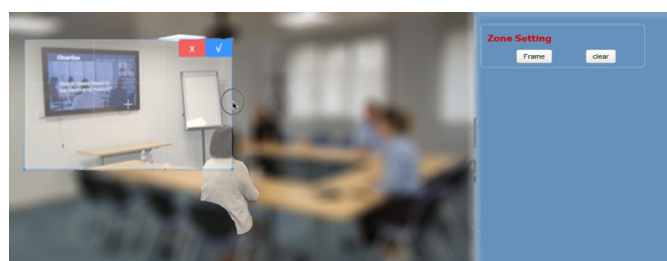
1. AI Control

AI detection can be defined here, changing between Auto Framing, Single Tracking or disabling AI.



2. Zone setting

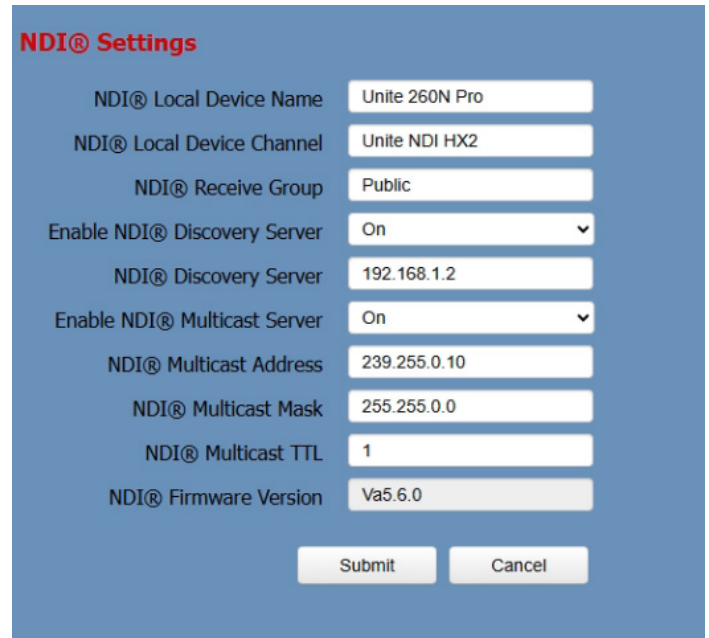
Click on Frame to start defining your zone over the image, also thru Zone settings you can define the areas bottom to top as well as left to right.



5.9 NDI® Settings

In this section you can customize NDI® functionality by performing some of the following actions:

- Define Local Device Name.
- Define Local Device Channel: This is where you can identify the unique NDI® source with a title to allow for further organizing your NDI sources.
- Receive Group: This feature allows you to “hide” NDI® resources on the network, when supported by the source, so that only the system(s) you want to access a specific NDI resource can access it.
- Enable NDI® Discovery server: This feature allows you to no longer rely on your network and DNS for discovery of cameras and instead allows you to run a free application that acts as the central point for NDI® discovery across a network.
- NDI® Discovery server IP
- Enable NDI® Multicast server: Define if your NDI network requires specific network settings, such as using Multicast. If it does, insert the details required.
- NDI® Multicast Address
- NDI® Multicast Mask
- NDI® Multicast TTL



NDI® Local Device Name	Unite 260N Pro
NDI® Local Device Channel	Unite NDI HX2
NDI® Receive Group	Public
Enable NDI® Discovery Server	On
NDI® Discovery Server	192.168.1.2
Enable NDI® Multicast Server	On
NDI® Multicast Address	239.255.0.10
NDI® Multicast Mask	255.255.0.0
NDI® Multicast TTL	1
NDI® Firmware Version	Va5.6.0

Submit Cancel

 **Note:** By default, all NDI® systems are joined to the NDI® Group “public” that allows for full access for any other NDI systems.

You can also check the NDI Firmware version of camera for support purposes.

Additional steps to configure your camera with NDI®

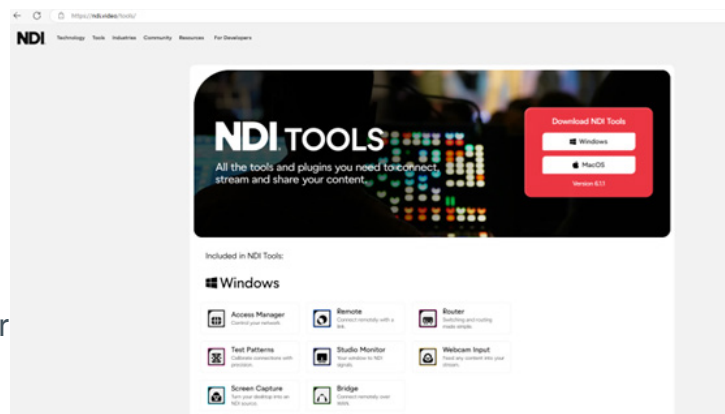
1. Download and install NDI® tools

To gain access to NDI® tools, including NDI® Scan Converter, NDI® Studio Monitor and other utilities, you'll need to download the NDI® Tools Pack from the website.

1.1 Go to <https://ndi.video/tools/>

1.2 Under Download NDI Tools, click on either Windows or MacOS to download the right version of the tool for your system.

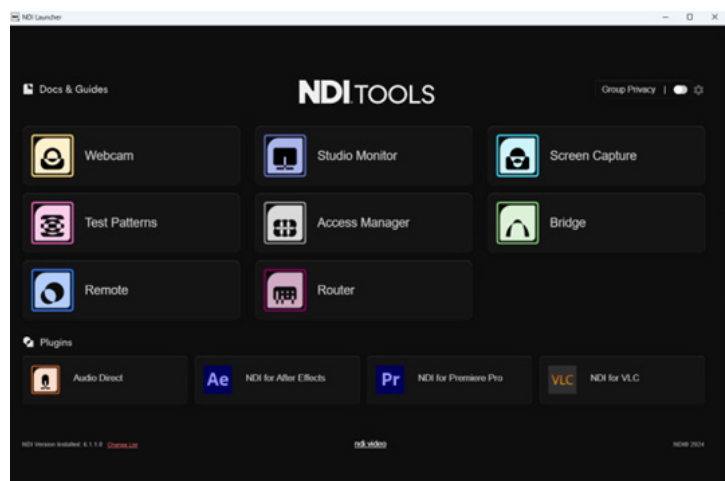
1.3 Finish installation of NDI Tools on your computer.



2. Connect NDI sources

Once you have it installed, you can connect NDI® sources.

2.1 Open NDI Tools



2.2 Click on Studio Monitor and select your video input.

2.3 If using a third party streaming tools such as OBS Studio, please visit their website for more information about using application on their platforms.



Note: WEB interface and device information are subject to change without notice.

6. Recording Audio:

This section explains how to record audio along with your video recordings.

Important Note:

- This camera does not have a built-in microphone.
- To capture audio, you will need to connect an external microphone or audio source like a DSP.

Using an External Microphone:

1. Microphone Compatibility:

- The camera supports electret condenser microphones.

2. Microphone Connection:

- The camera has a 1 channel 3.5mm Tip-Ring-Sleeve (TRS) line jack microphone input port.
- Ensure your microphone uses a compatible plug type (TRS or Tip-Ring-Ring-Sleeve (TRRS) plugs).

Using a Line-Level Audio Source:

1. Audio Source Compatibility:

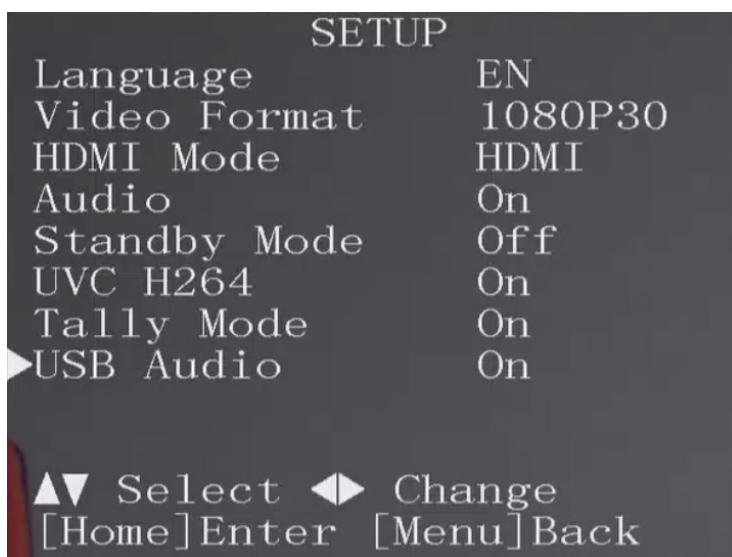
- The camera also features a line-in port for connecting external audio sources with stronger signals, such as mixers, audio players, and DSPs.

2. Line-Level Connection:

- Use a standard line-in port 3.5mm TRS jack cable to connect your audio source.

To use your PC/laptop's audio through the Unite 260N Pro's USB connection, follow these steps:

1. Using the remote control, navigate to MENU > SETUP.
2. Select USB Audio and set it to "On".
3. Your PC/laptop should now recognize the Unite 260N Pro as an microphone device.




7. Serial Command Control

In default working mode, the camera can be controlled via RS-232 or RS-485 (half-duplex mode). The parameters are as follows:

- Baud rate: 2400/4800/9600 bits
- Start bit: 1 bit
- Data bit: 8 bits
- Stop bit: 1bit
- Parity bit: none

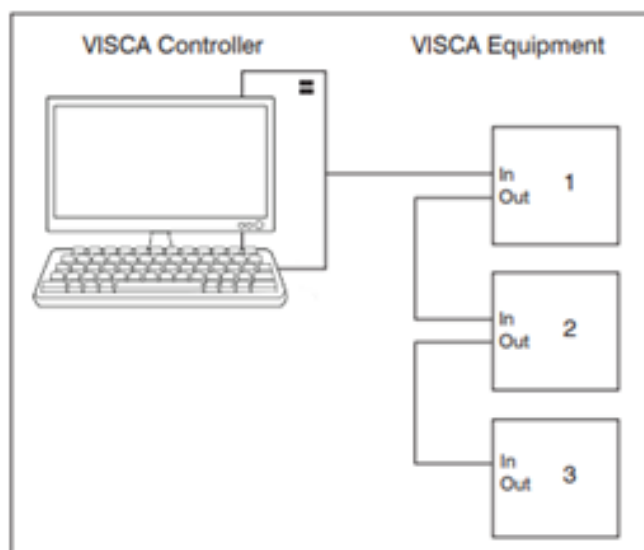
The process of initialization is complete when the camera pan-tilt rotates to the maximum position of top right and then returns to the center.

 **Note:** If the position preset 0 has been stored, the position preset 0 is called up after initialization, and users can control the camera with commands in the following command list.

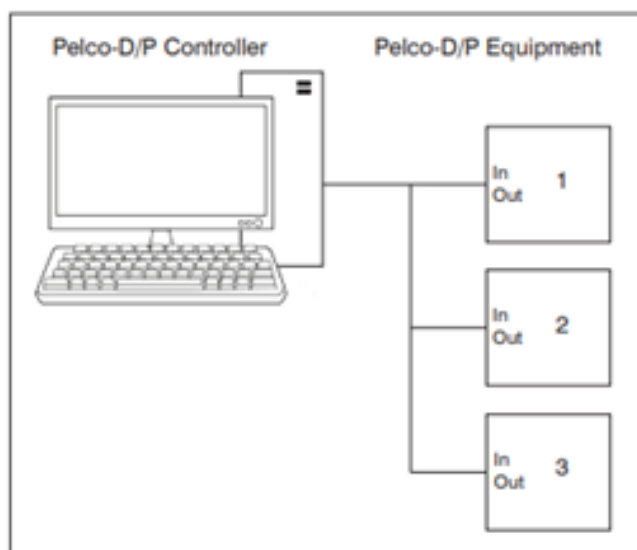
Network Configuration

Network Configuration

With VISCA

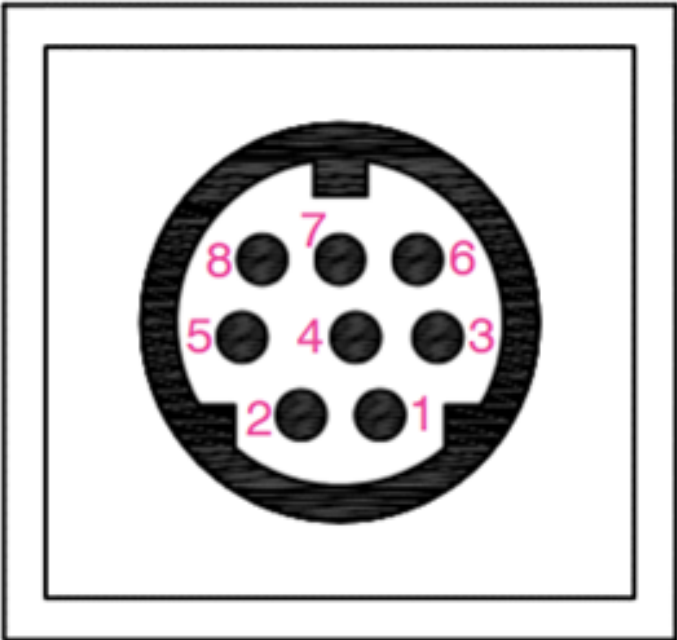


With Pelco



Control Interface Definition

Pin Number	Function
1	DTR
2	DSR
3	TXD
4	GND
5	RXD
6	RS485-
7	IR OUT
8	RS485+



Camera	DB - 9 Serial
1. DTR	1. CD
2. DSR	2. RXD
3. TXD	3. TXD
4. GND	4. DTR
5. RXD	5. GND
6. RS485-	6. DSR
7. IR OUT	7. RTS
8. RS485+	8. CTS
	9. RI

Camera In	Camera Out
1. DTR	1. DTR
2. DSR	2. DSR
3. TXD	3. TXD
4. GND	4. GND
5. RXD	5. RXD
6. RS485-	6. GND
7. IR OUT	7. NC
8. RS485+	8. NC

8. Troubleshooting

Image

- **The monitor shows no image**
 - 1) Ensure that the power supply of camera is connected, the voltage is normal, and the power indicator is always on.
 - 2) Turn off the power switch to check that the camera is self-testing.
 - 3) Ensure that the cable of video platform and TV is in correct connection.
- **Image jitters after the camera is properly connected**
 - 1) Ensure that the camera installation position is stable.
 - 2) Check that any vibrating machinery or object near the camera.
- **There is no video image in browser**

IE browser does not support HTML5, you need to use VLC plug-in to view videos. Please access VLC website (<http://www.videolan.org/vlc>) to download and install the 32-bit VLC media player, after installation, the video image will be displayed normally when access the camera. Other mainstream browsers already support HTML5 and do not need to install the VLC plug-in.
- **Unable to access through the browser**
 - 1) Using PC to access the network to test that the network access can work properly to eliminate the network fault caused by cable and PC virus until the PC and camera can ping each other.
 - 2) Disconnect the network, connect camera with PC separately and reset the IP address of PC if necessary.
 - 3) Ensure that the IP address, subnet mask and gateway settings is correct.
 - 4) Check that the MAC address is conflicts.
 - 5) Check that the web port is modified, the default setting is 80.

- **Forget the IP address or login password**

The default IP address is: 192.168.19.8; the default username and password are: admin.

Control

- **Remote control does not work**
 - 1) Check and replace with new batteries.
 - 2) Ensure that the camera's working mode is correct.
 - 3) Ensure that the address key of remote control can match the camera.
- **Serial port cannot control**
 - 1) Ensure that the protocol, address and bit rate of the camera are consistent.
 - 2) Ensure that the control cable is properly connected.