

Nearity

CONFERENCE CAMERA

User Manual



Model: AW-V410

V1.0

Content

1. Product Overview	01
1.1 Product Introduction	01
1.2 Features	01
1.3 Packing List	01
2. Basic Information	02
2.1 Physical Structure	02
2.2 Dimension	03
3. Deployment	03
3.1 IConnection/system topology	03
3.2 Installation Guidelines	04
4. Functions	05
4.1 Indicators	05
4.2 Remote Control	05
4.3 Operation on Nearsync	07
5. Key Specification	11
6. Caution	13
7. FAQ	13

1. Product Overview

● 1.1 Product Introduction

Bring your audience into the room with true 2K video using NEARITY V410 PTZ Conference Camera. Coupling a 10x combined zoom with 350° pan range, V410 brings conferences and meetings into perfect focus. A powerful plug-and-play solution for all your video conference needs.

● 1.2 Features



- Premium streaming video

Delivers crystal clear meetings and collaboration with a 2K QHD image, 120° ultra-wide angle lens, and 10x combined zoom.



- AI Smart Mode

Can be achieved AI smart-tracking and auto-framing, it will upgrade the experience of video conference.



- High dynamic range capable

HDR capability and automatic white adjustment ensures you stand out, even in poor lighting conditions.



- Designed for privacy

Automatically swivels from the ensure position to the rear to ensure enterprise and personal security when the meeting ends.



- Engineered elegance

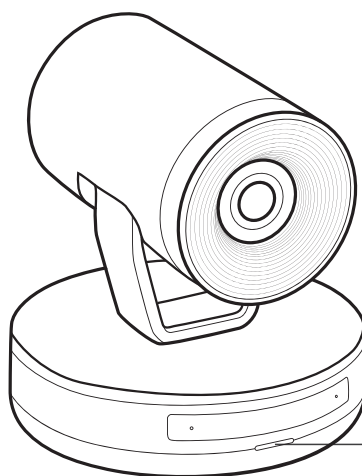
Premium materials and modern design fit any business environment.

● 1.3 Packing List

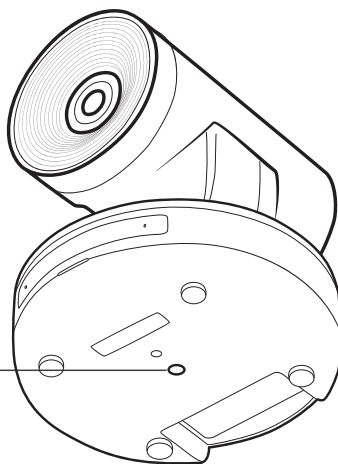
V410 * 1	USB Cable * 1	Power Adaptor* 1	Remote * 1	User QSG * 1

2. Basic Information

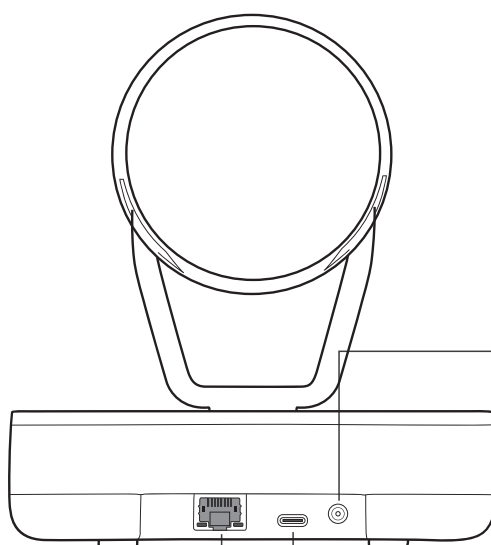
● 2.1 Physical Structure



① LED indicator



② Universal Tripod
1/4" Interface

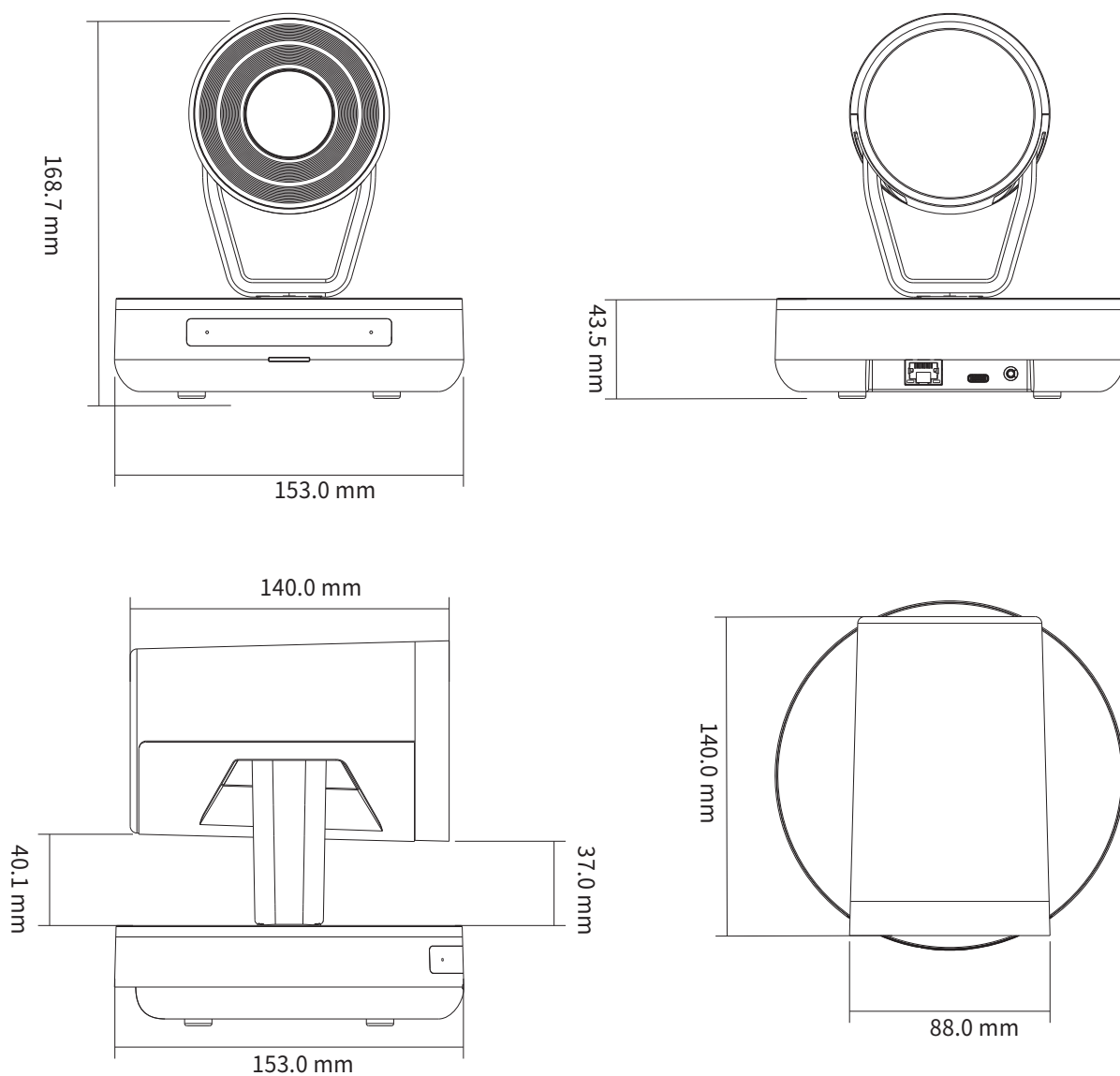


⑤ Power Port (DC 12V)

③ RJ45 interface

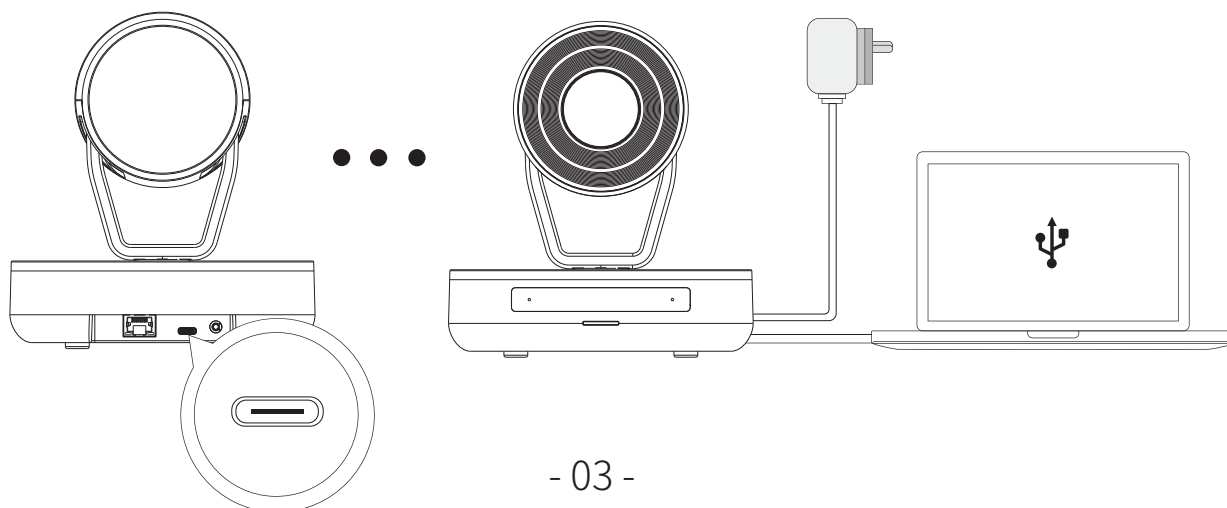
④ USB 2.0 Type-C

● 2.2 Dimension



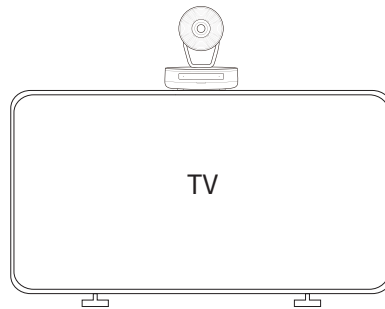
3. Deployment

● 3.1 Connection/system topology

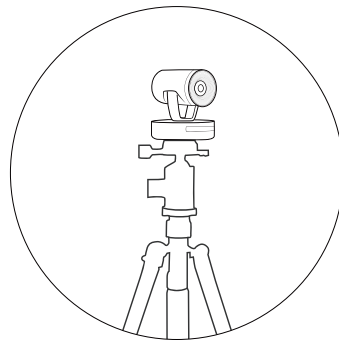


● 3.2 Installation Guidelines

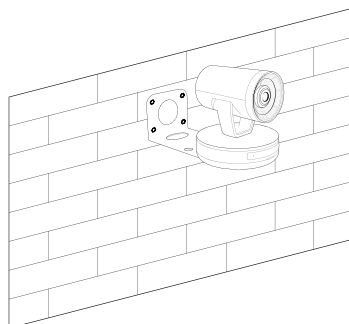
① TV mounting



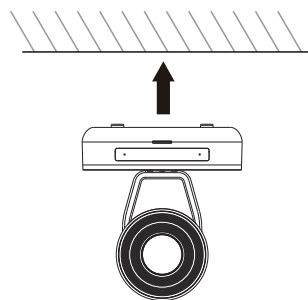
② Tripod



③ Wall mounting



④ Ceiling Mounting(with V4 bracket)

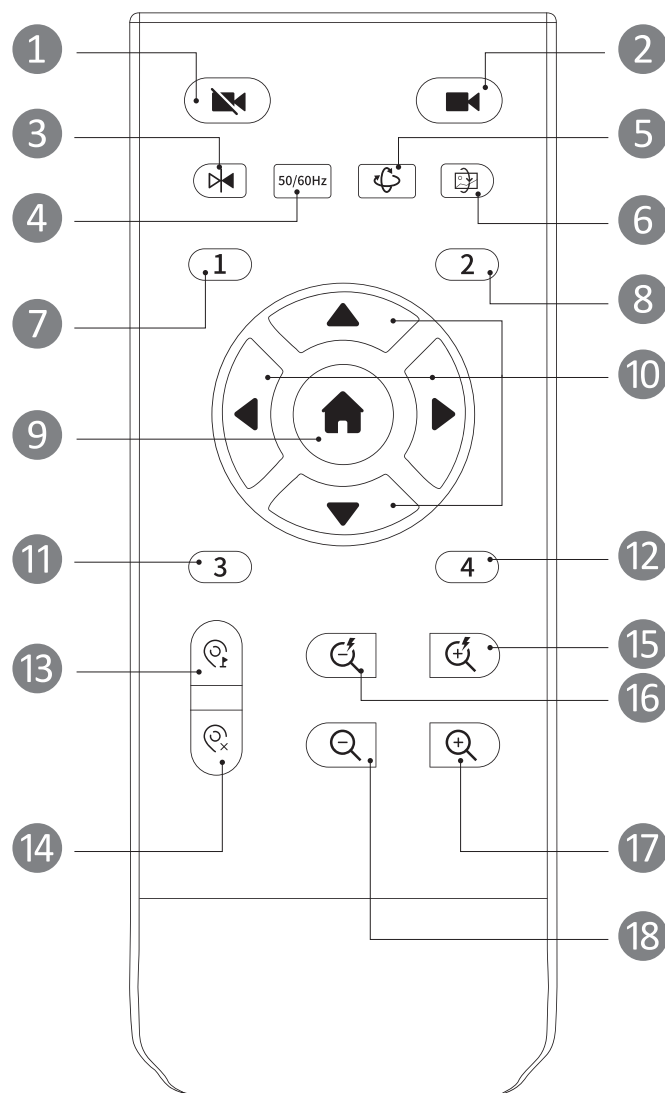


4. Functions

● 4.1 Indicators

Solid white:	power connected, and the USB already connected with Laptop/PC
Solid white off after 4 seconds:	power connected, but USB not connected
Flash white:	firmware upgrading

● 4.2 Remote Control

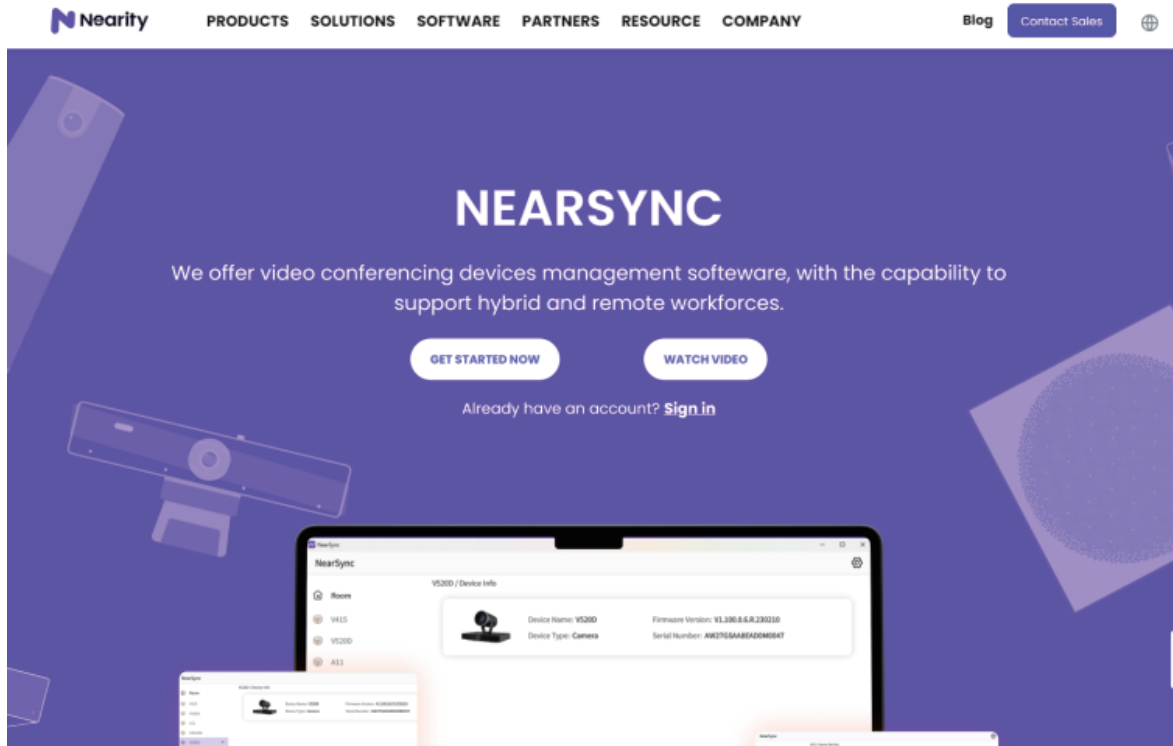


S/N	Function	Description
1	Camera Off	Turn off the device camera
2	Camera On	Turn on the device camera
3	Mirror	Mirroring the image
4	Flicker frequency switch	Switches between 50 Hz and 60 Hz
5	Reset and Self-check	PTZ self-check and calibrate position
6	Flip vertically	Flip the image vertically, can be installed inverted
7	Preset 1	Switch to preset 1; press 13 "set preset" and then "1" to change preset 1 to the current position
8	Preset 2	Switch to preset 2; press 13 "set preset" and then "2" to change preset 2 to the current position
9	Menu&Panorama mode	Long press: turn on/off OSD menu Short press: switch to panorama mode, the PTZ will reset to default position
10	PTZ control	Control pan/tilt function of the PTZ
11	Preset 3	Switch to preset 3; press 13 "set preset" and then "3" to change preset 3 to the current position
12	Preset 4	Switch to preset 4; press 13 "set preset" and then "4" to change preset 4 to the current position; When it's in OSD, press "4" back to the previous step
13	Set preset	Set the current position to preset 1/2/3/4
14	Clear preset	Clears preset 1/2/3/4
15	Fast zoom-in	Fast zoom in the image
16	Fast zoom-out	Fast zoom out the image
17	Zoom in	Zoom in the image
18	Zoom out	Zoom out the image

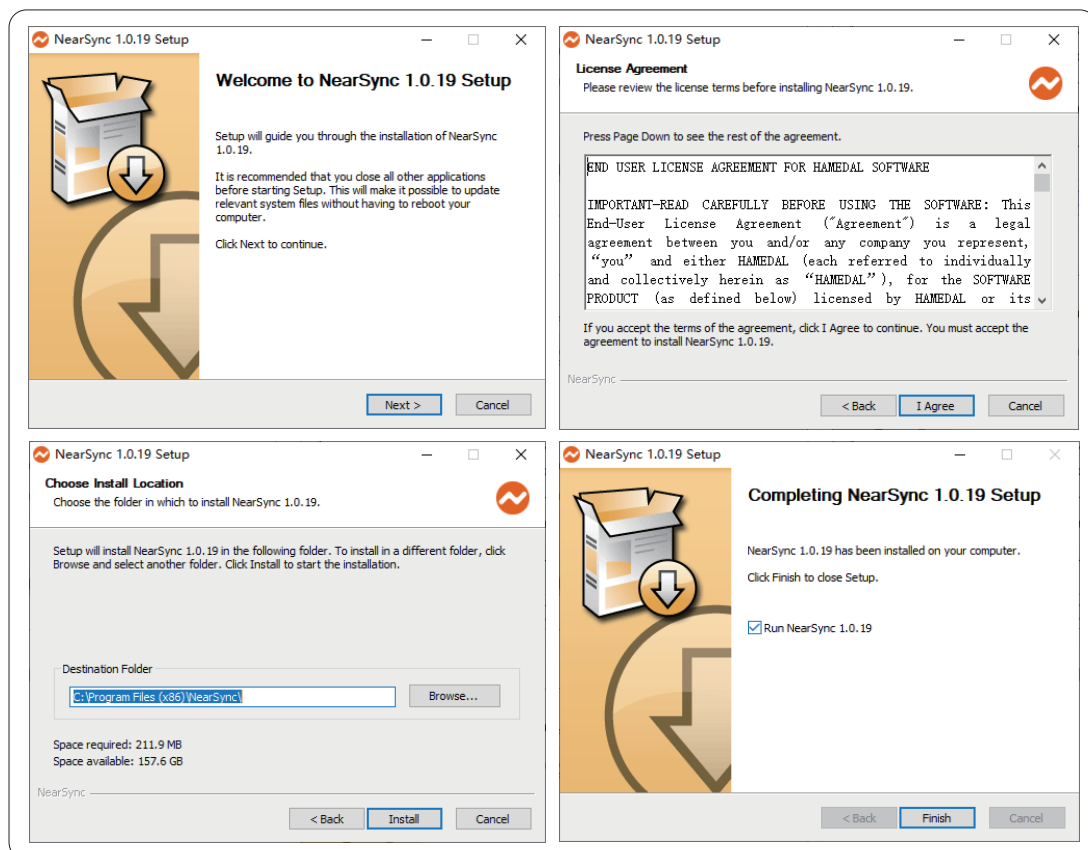
● 4.3 Operation on Nearsync

4.3.1 Downloading link

Download the Nearsync on the official website.<https://nearity.co/resources/dfu>



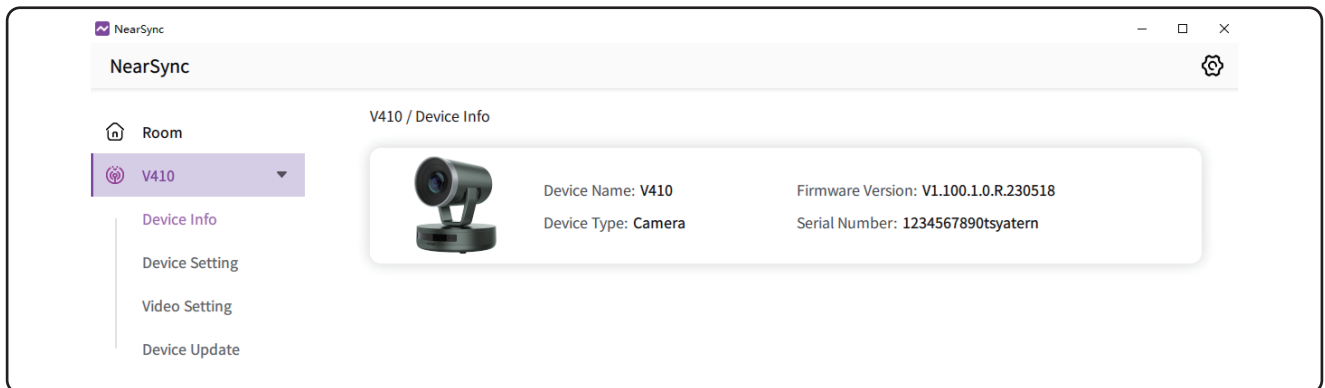
4.3.2 Install Nearsync



4.3.3 Operation

4.3.3.1 Home page

After the V410 is connected to the computer via USB, the nearsync automatically recognizes the device information

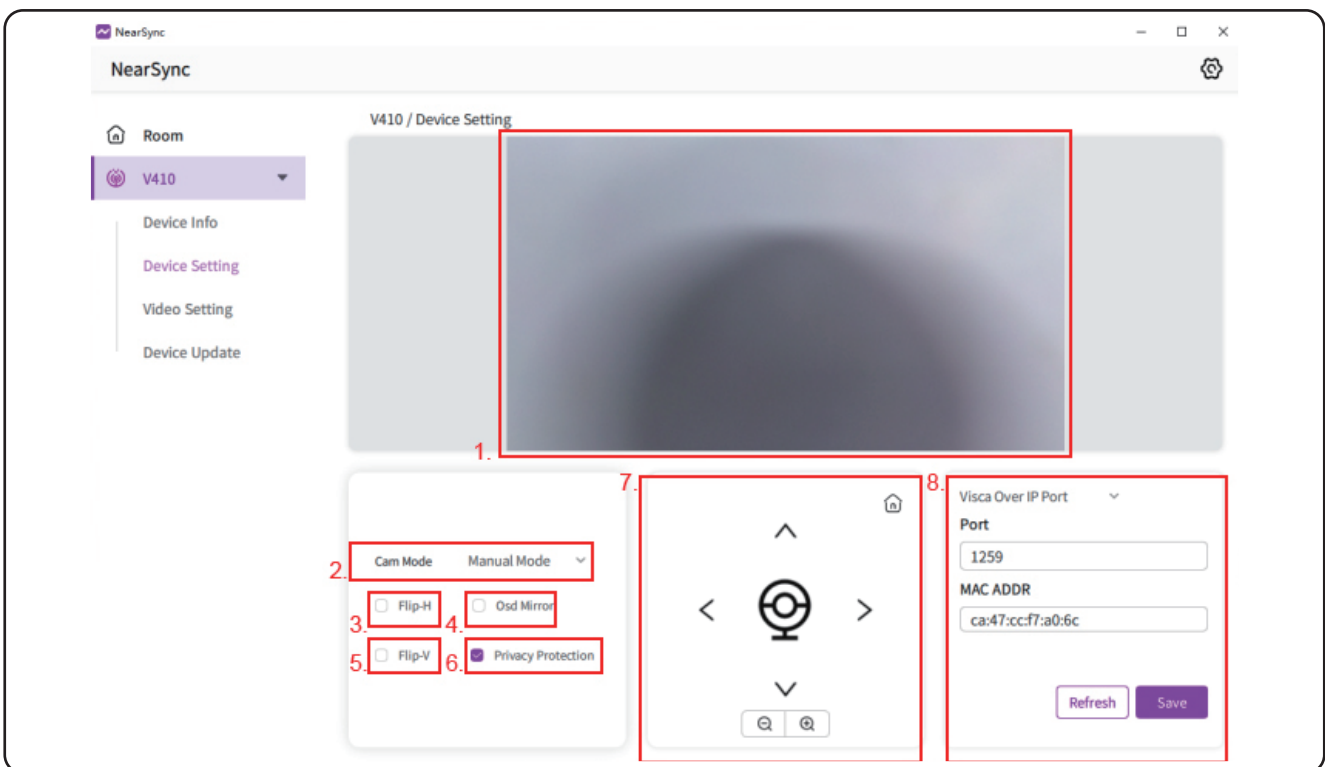


1.Navigation Bar

2.Product picture

3.Product information: product model, firmware version, product SN

4.3.3.2 Device Setting



1.Preview

2.Mode Select: Manual mode, Smart Track, Auto framing

3.Flip horizontally ON/OFF

4.Flip OSD ON/OFF

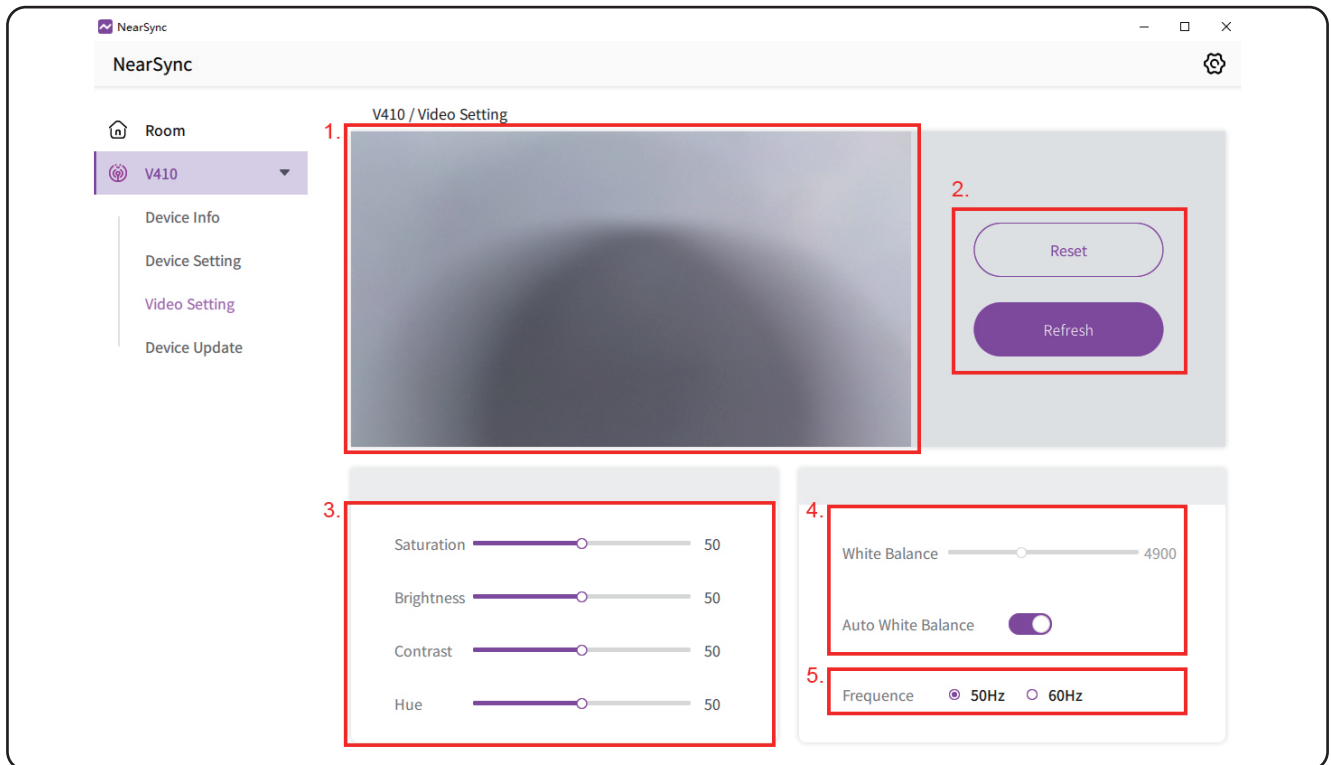
5.Flip vertically ON/OFF

6.Privacy protection ON/OFF

7.PTZ: Control pan/tilt rotation, image panorama, image rapid zoom in/out

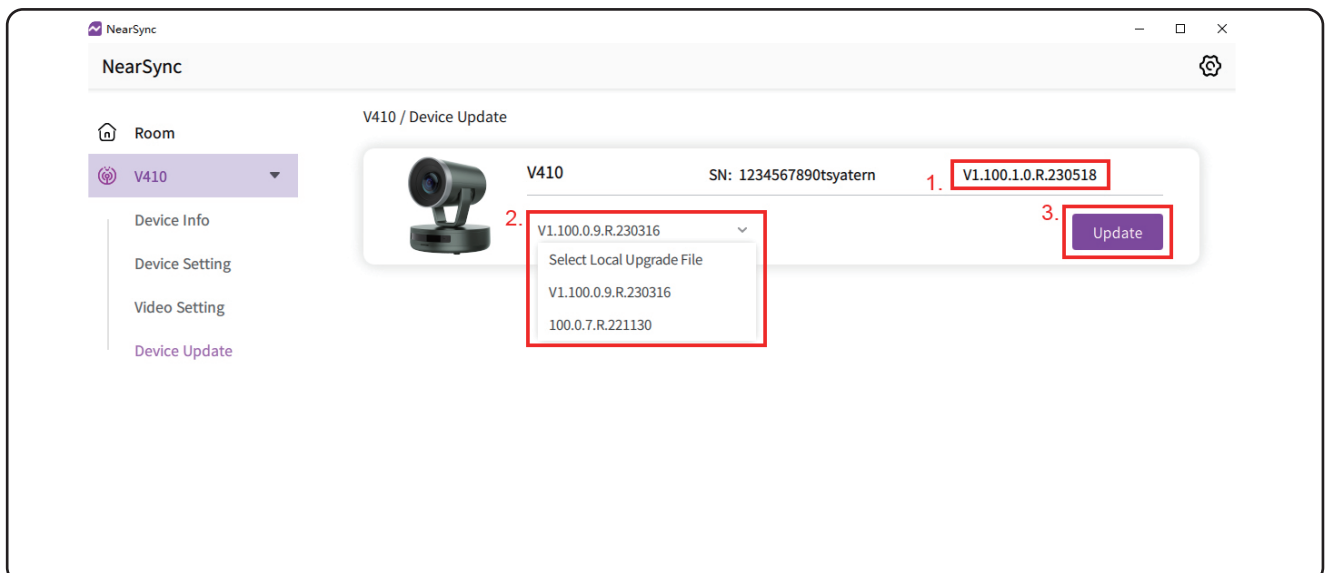
8.Visca Over IP port configuration, network configuration, Rtsp configuration

4.3.3.3 Image Setting



1. Preview
2. Reset image parameters, refresh the page
3. Adjust image: Saturation, brightness, contrast, chromaticity
4. Auto/Manual white balance
5. Switch flicker frequency 50/60Hz

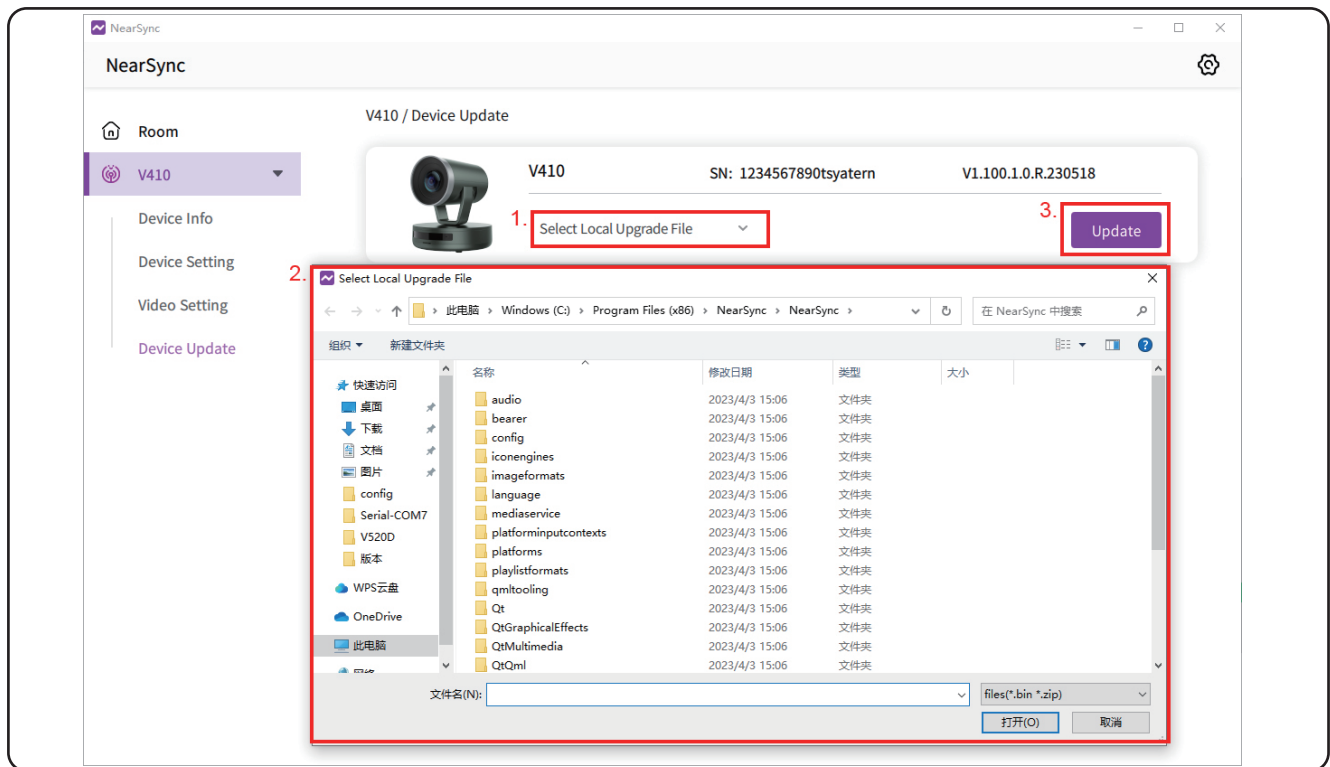
4.3.3.4 Online Upgrading



1. Check the latest firmware version for all devices/update all to the latest
2. The latest 3 firmware versions will display in the drop-down menu
3. Choose the firmware you want to update. The progress bar shows the progress of the updating

4.3.3.5 Updating locally

Before you update, make sure that you've already got the right version from our technical team.



1. Tick to switch to local update mode
2. Choose the right firmware you want to update on your local PC/Laptop
3. Click to update, the process will be shown on the process bar

5. Key Specification

	Technical Specifications
Camera Features	Aperture: F/1.8~2.8
	Sensor: Sony 1/2.8 inches CMOS, 4MP
	4x optical zoom + 2.5x digital zoom
	FOV(D):wide 120°
	FOV(H): wide 99°
	FOV(V): wide 64°
Video Characteristics	Non-distortion lens
	Auto-exposure supported
	Automatic white balance supported
	3D noise suppression supported
	QHD 2K
	Support AI mode: Smart Tracking/ Auto-framing
	Aspect ratio 16:9
	YUV: max of 480P@30fps MJPEG: max of 1080P@30fps H264: max of 1440P@30fps
PTZ Features	Pan/Tilt range: pan: $\pm 175^\circ$; tilt: $\pm 30^\circ$
	Pan speed: $1.7^\circ \sim 100^\circ/\text{s}$
	Tilt speed: $0.7^\circ \sim 28^\circ/\text{s}$
	H & V flip supported
	4 preset positions
	Privacy protection supported

Audio Features	Built-in 2 noise cancelling microphones
	Effective pickup distance 1.5m
Power and Connectivity	DC 12V/1.5A
	RJ45 Ethernet
	USB2.0 Type-C
Physical Characteristics	Height: 166mm(6.5 inches) Width: 153mm (6 inches) Depth: 153mm(6 inches)
	Net weight: 1117.5g(39.42 oz)
	Color: Dark Gray
Optional Mounts	Tripod bracket / TV bracket / Wall bracket
Compatible Operating Systems	Windows/Mac/Linux
Packing List	1x V410
	1x USB cable(3m)
	1x Power adapter
	1x Remote control
	1x User manual

6. Caution

- Unauthorized removal and strong impact may cause damage to the device.
- The device should be kept away from high temperature environment, heat source, strong magnetic field, strong electric field.
- Do not immerse the device in water or other liquids. Keep in a dry, cool place.
- Be sure to fix the camera in case it falls out.
- Do not touch the surface of the lens or clean the product with a cotton swab or cotton cloth, use a non-abrasive cleaner to remove dirt from the product or the surface of the lens, and avoid using any corrosive solutions.

7. FAQ

Q: Can the V410 conference camera support HDMI and USB output at the same time?

A::No. Nearity V410 cannot support HDMI output.

Q: Does the V410 PTZ support Daisy-chain with Speakermic A20 or other microphone devices?

A: No. There's no audio input port on the camera. Can not cascade with speakermic or other microphones.

Q: No. There's no audio input port on the camera. Can not cascade with speakermic or other microphones.

A: The V410 doesnot have audio output port. The speaker need to connect with PC/Laptop.