NEXVOO CLASSCAM

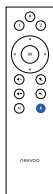# 4K AI USB Class Camera

User Manual
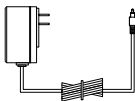## (Model: CC520)

Package Contents

1

NEXVOO CLASSCAM
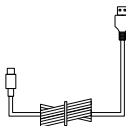4K AI USB Class Camera

2

Remote control

3

Power Adapter (12V/1A)
9.8-ft(3m)

4

5.9-ft(1.8m) USB cable
(Type-C to Type-A)

5

Wall mount kit

6

User Manual

Features

1. The CLASSCAM is equipped with a 4K telephoto camera, giving your virtual learners to see the teacher and a clear whiteboard writing of the classroom, so they will not miss any action.
2. 6mm lens focal length.
3. 4K 30fps Ultra HD video,
4. Support multiple video encoding: H.265 / H.264 / MJPEG / YUV
5. With its built-in beamforming noise-reducing microphone, you can clearly pick up the voice of the teacher.
6. AI auto framing and AI speaker tracking.
7. USB plug-and-play connectivity.
8. Works with most video applications for Class.

Know your product

1. Keyboard
2. Microphones
3. HDR Camera, 4K telephoto lens
4. Camera LED
5. Function LED
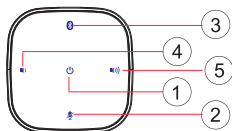6. PC interface
7. Power port (DC 12V/1A)
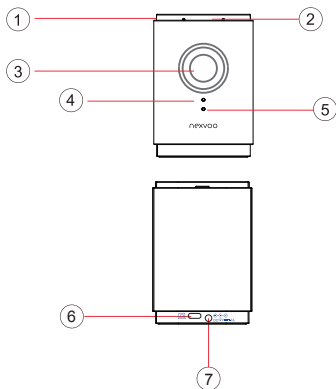
8. Mute
9. Preset 2
10. Preset 1
11. Pan and Tit
12. Rotate lens
13. Zoom in
14. Volume up
15. Zoom out
16. Volume down
17. Bluetooth
18. AI Switch
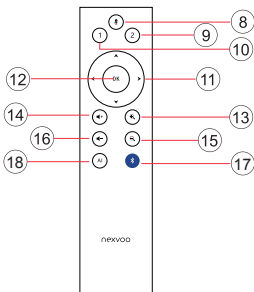
Note: Only after AI is turned off, you can adjust the lens angle through the remote control.

1. Power On/Off
2. Microphone Mute
3. Bluetooth
4. Volume down
5. Volume up

Installation

Mounting ceiling
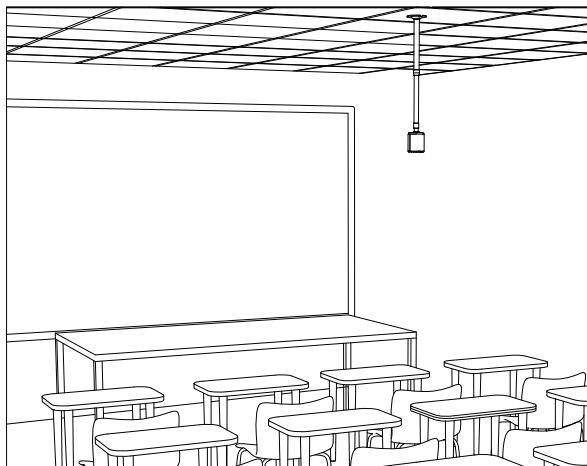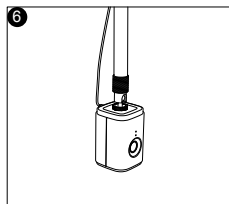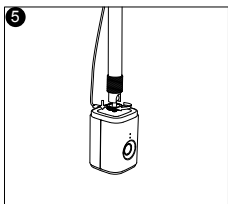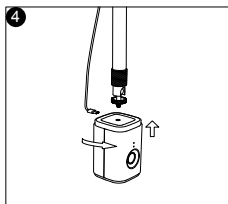
Setup your product

Connect ClASSCAM to external power.

Press the Power button for 1 sec to turn on the device.

Or connect the CLASSCAM to the PC/Mac via the supplied USB cable, the device will automatically turn on.

Use your product

1. Video

· Starting the video: The video is controlled by the application and will start once the camera is selected and the video is started in the application. Camera LED will turn on when the video is streaming.

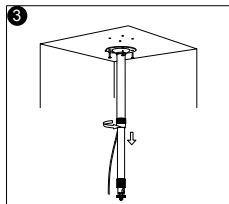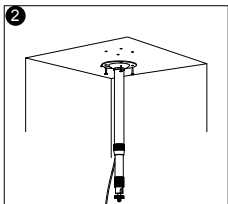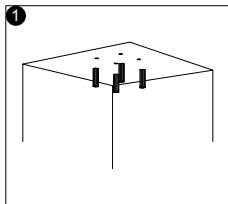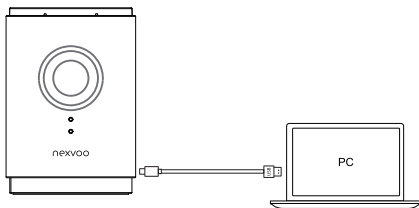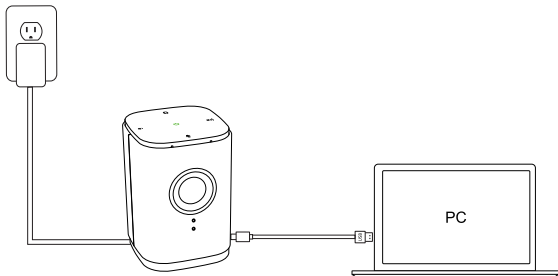· Pan, tilt and zoom the camera using the controls on the remote control. Press once for incremental or press and hold for continuous pan or tilt. You can also pan and tilt the camera image – first zoom in, and then pan the image or tilt the image. You may also manually tilt the camera itself.

· Saving pan, tilt and zoom settings: It can be saved by long pressing the Preset Zone 1 or 2 of the remote control. After saving successfully, the status indicator will blink blue for 2 seconds.

2. Audio

· Volume: Volume Up and Down adjusts PC/Mac volume.

· Mute: Mute microphone with Mute button.

3. Connection with Bluetooth remote control:

· CIASSCAM will automatically search remote control's Bluetooth after power-on. If the remote control is found, CIASSCAM can pair and connect automatically with remote control. If the remote control is not found within 3 minutes, please press any key to make the remote control enter pairing mode again.

· The remote control is lost or cannot be found, how to pair a new remote control, you can do the following:
Touch the Bluetooth button for 3 seconds to clear the paired remote control, CIASSCAM will automatically search and connect to the new remote control.

Note: The control distance of the remote control is about 10m (32.8 ft).

4．Advanced AI Technologies

· The CLASSCAM offers Auto-Tracking Camera which can automatically follow each teacher when recording videos and remained zoom into the whiteboard spaces where they are teaching. Once installed, your teachers will be able to launch their Learning software (Zoom, Teams, Meet, etc.) and let our advanced AI technology do the rest. Give your classrooms a virtual PTZ(Pan, Tilt, Zoom) experience on a budget.

Note: You can turn off or turn on AI Technology by AI button through the Remote control.

Button Instructions

⏻	Touch the button and hold for 1 second to power on, and 3 seconds to power off.
🔊	Touch the button to increase PC/Mac speaker volume
🔉	Touch the button to decrease PC/Mac speaker volume
🎤	Touch the button to mute or unmute the microphones
🅱	Touch the button and hold for 3 seconds to clear the paired remote control

Light Indicator

1. Camera LED

🟢	Camera on
⚪	Camera off

2. Function LED

🔵	Always on	Press and hold the power button for 1 second to turn on the device used external power supply.
		Plug in the USB cable to automatically turn on the device.
	Blink slowly	The device is searching for the remote control (Blink for 1 minute).
	Blink quickly	The AI function is turned on (Blink for 2 seconds).
		The device is paired with the remote control successfully (Blink for 2 seconds).
		The device saves the lens preset zone successfully (Blink for 2 seconds).
		The camera is turned 180° by remote control successfully (Blink for 2 seconds).
🔴	Always on	The device is turned off when connected with DC.
	Blink slowly	The microphone is muted.
	Blink quickly	The AI function is turned off (Blink for 2 seconds).
		The paired Bluetooth remote control is deleted (Blink for 2 seconds).
		The device is updating the firmware.

* The actual color of LED indicator may be slightly different and shall prevail.

Web management

You can configure the Nexvoo ClassCam CC520 USB video device on the Web management.

You can configure the following settings on the Web management.

- View device information
- Remote control configuration
- Camera Tracking
- System update & reset
- Change password
- Restore default settings

  Note: Web management only supports Windows system.

Network configuration

1. After ClassCam CC520 is connected to the power supply, it will automatically turn on. The device turns on the AP mode, The SSID of the device's WIFI is: **Nexvoo ClassCam**.
2. Search for " **Nexvoo ClassCam**" and connect via WIFI on your computer.

Login Web management

1. Start the browser, enter http://192.168.1.1 to open the login interface of the ClassCam CC520 Web management platform.
2. Enter the username and password, click "Sign in" to login to the web management platform. (Default username: Admin, Password: 123456)

   Note: Some browsers may not be fully compatible. It is recommended to use Chrome /Firefox/Microsoft Edge browser etc.

View device information

You can view the basic information for your ClassCam CC520 USB device through Web Management platform.

Procedure

1. Login to the web management platform through a browser.
2. In the Dashboard section, view the basic information for your ClassCam CC520 USB device.

Remote control configuration

You can clear the paired remote control in Bluetooth Settings menu through the web management platform.

Procedure

1. Login to the web management platform through a browser.
2. Go to General Settings – Bluetooth Settings.

Click "Clear Remote Control" button to clear the paired remote control, then you can pair and connect a new remote control.

Camera tracking

You can set the AI technology of the device in the Camera Tracking menu through the web management platform.

Procedure

1. Login to the web management platform through a browser.
2. Go to General Settings – Camera Tracking.
3. Control the ClassCam CC520 USB device through the following functions:

Button Name	Description
Rotate the video	The default setting is Off. After Rotate the video is turned on, the video will be rotated 180° vertically.
Mirror the video	The default setting is Off. After Mirror the video is turned on, the video will be rotated 180° horizontally.
AI Technology	• The default setting is On, the device will enable auto framing and teacher tracking in the platform area. • After the AI technology is turned off, device video will show panoramic view.
Recognition Mode	• The default setting is **Face**, the device uses face recognition to track the teacher in the platform area. • If set as **Person**, the device will use person detection to track the teacher in the platform area.
Close-up View	• The default setting is **Auto**, the device will automatically present a close-up view based on the teacher's location. • Setting as **2x zoom**, the device will use the 2x zoom view as the close-up view. • Setting as **3x zoom**, the device will use the 3x zoom view as the close-up view.
Preset zone	• The default setting is **Off**, the device will track the teacher in panoramic view. • Before setting the preset zone, please set the lens preset 1/2 through the remote control first, please refer to the remote control instructions. • Set as **Preset 1**, the device will use preset 1 as the preset zone, and track the teacher in this area. • Set as **Preset 2**, the device will use preset 2 as the preset zone, and track the teacher in this area.
Out of the Preset zone	• The default setting is **Track**, the device will track the teacher when the teacher walks out of the preset zone, but once there are people in the preset zone, the camera will jump to the preset zone to track the people in the area. • Set as **Do not Track**, the device will not track the teacher when the teacher walks out of the preset zone, and still focus on the preset zone.

Update the ClassCam CC520 USB Device

You can update the firmware of the ClassCam CC520 USB device through Web Management platform.

Procedure

1. Login to the web management platform through a browser.

2. Go to System Settings – System Update.

Click or drag the firmware file with the format of .img to the firmware import area, then click "Update" button to start the system update.

Note: Make sure your computer doesn't enter sleep mode during the system update. Otherwise, the update may fail.

Change Your Password

Nexvoo recommends that you change your device's password from the default for security reasons

Procedure

1. Login to the web management platform through a browser.

2. Go to System Settings – Change Password.

3. Enter your Current Password.

4. Enter a new password in New Password and Confirm Password fields.

5. Click Save.

Restore Default Settings

You can erase all configuration and restore the ClassCam CC520 USB video device default setting through Web Management platform.

The default settings to be cleared include but are not limited to:

• Password

• Remote control presets

• Bluetooth settings

• Camera Tracking

• Audio settings

Procedure

1. Open the login interface of the Web management platform.

2. Click Restore Default Settings.

3. Enter the correct SN number of the device.

4. Click OK to restore default settings.

Notes & Warnings

Please read and follow all the safety instructions carefully.

1. Use the included USB cable to connect the device, the use of unapproved third-party USB cable may damage your device.

2. Unauthorized dismantlement and strong impact may damage the device.

3. Keep the device away from high-temperature environments, heat sources, strong magnetic, or electric fields.

4. Do not immerse the device in water or any other liquid. Store the whole device in dry and cool places.

5. Constant high-volume sounds have a negative impact on human hearing.

6. Dispose the packing materials, the whole device, and other electronic components properly.

7. Waste packaging, old electronic products, please classify properly

8. The package and this device contain small components that can be dangerous to children, Please keep the device out of children's reach.

9. The device can be an interference source for other electronic devices and medical equipment.

Product Information

Dimensions
• 109 x 75 x 75 mm (Hx W x D)
  4.3 x 2.95 x 2.95 inches (H x W x D)

Weight
• 300g
  10.23ounces

Camera Specs
• f/2.1 Aperture
• FOV 73°
• UHD 4K resolution
• Frame rate: 30 fps
• 6mm focal length
• Video encoding:
  H.265 / H.264 / MJPEG / YUV
• 5x zoom/EPTZ
• Mirro the video
• Rotate the vertical direction of the
  video
• Mechanical tilt

Video Specs
• UHD 4K@30fps
  FHD 1080p@30fps
  HD 720p@30fps

Power Input
• DC 12V/1A @ 100~240VAC, 50/60Hz

AI Teaching Technology
  • Preset zone setting
  • Auto framing for Preset zone
  • Out of the Preset zone detection
  • Close-up view setting

Audio Specs
• 360° wideband audio with 16ft(5m)
  diameter range
• Mute/Unmute control
• Microphone
  - Two omni-directional microphones
    supporting 16ft (5m) diameter range
  - Sensitivity: -34dB ±3dB
  - Frequency response: 20Hz-15KHz

System Requirements
• Supported operating systems
  -Windows 7, 8.1, 10
  - Mac OS X 10.15 or higher
  - Chrome OS™
  - Android™ 6.0 or higher
    Support standard audio and video device
    drivers
  - UAC1.0 audio
  - UVC1.1/1.5 video
  - HID1.11

Interface
• USB-C port
• DC power port
• Bluetooth 4.2

*The specifications above are subject to changes without notice.

FC CE RoHS

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