



PTZ Conference Room USB Camera



P/N 35520

User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

FEATURES

- 1080p maximum resolution with 2.1 megapixel sensor
- Smooth motors for pan and tilt movement
- 3x optical zoom
- USB connection for power, audio, video, and PTZ movement controls
- Compatible with the VISCA, Pelco-D, and UVC 1.5 protocols
- Works with most WebRTC software and PTZ control over the USB connection

CUSTOMER SERVICE

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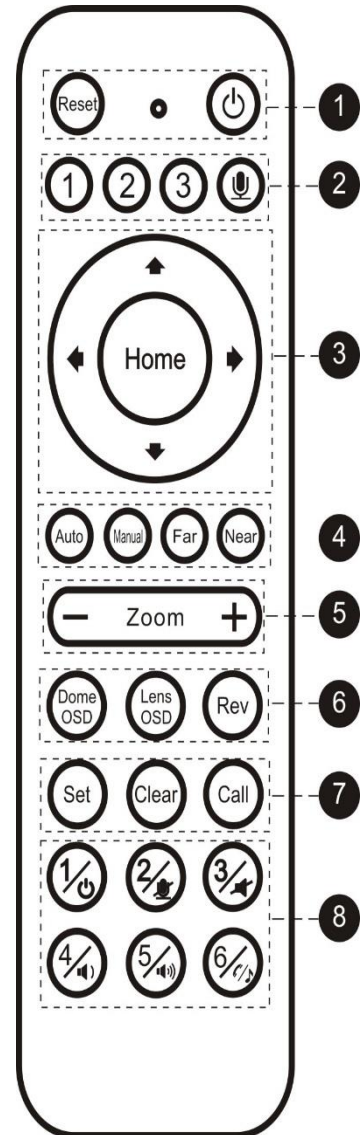
PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

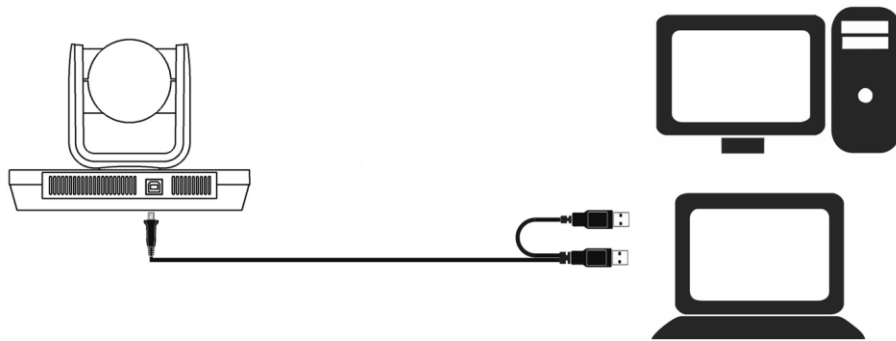
- 1x PTZ camera
- 1x L-type USB power and data cable
- 1x IR remote control
- 1x L-type wall mount kit
- 1x User's manual

REMOTE CONTROL

1. **Reset Button, LED Indicator, and Power Button**
2. **Device Selection:** The camera address code and remote control address code must correspond (set to 1-3 in the OSD menu).
3. **Pan and Tilt Controls:** Use the directional keys to move the camera pan and tilt. Press the **Home** button to return the camera to the home position.
4. **Focus Controls:** Set the focus to **Auto** or **Manual**. When Manual is selected, use the **Far** and **Near** buttons to adjust the focus.
5. **Zoom Controls:** Use the **+** and **-** buttons to adjust the optical zoom.
6. **OSD Controls:** Press the **Dome OSD** or **Lens OSD** buttons to access the Dome or Lens OSD menus. Press the **Rev** button to flip the camera image or use a mirror image.
7. **Preset Control Buttons:** After pressing a **Preset Address Button**, press **Set** to save the preset, press **Clear** to erase the preset, or press the **Call** button to move the camera to the saved preset position.
8. **Preset Address Buttons:** Press one of the numbered keys to select one of the six presets. After selecting the preset, press the **Set** button to save the camera position to the preset, the **Clear** button to erase the preset, or the **Call** button to move the camera to the saved preset position.



CONNECTING TO A COMPUTER



Plug one Type-B end of the included L-type USB cable into the camera, then plug the main Type-A connector at the other end into a USB port on your computer. If connecting to a USB 2.0 port, plug the other Type-A connector into a second USB port to supply the power needed by the camera. If connecting to a USB 3.0 connector, a second connection for power is not required.

SETUP

This camera is a plug and play device and does not require drivers when connected to a computer running the Windows® 7/8/10, Mac® OS X®, Chrome OS™, or Linux® operating system. The computer should automatically configure itself to use the camera. If it does not, ensure that the Conferencing App is configured to use the **USB PTZ Camera**.

ON SCREEN DISPLAY

Self-Test Menu

On power-up, a self-test menu briefly displays the following information.

- **IR Address:** Displays the current IR address used by the remote control.
- **Dome Address:** Displays the current IR address code assigned to the camera.
- **Protocol:** Displays the current control protocol.
- **Baudrate:** Displays the current baud rate.

- **Lenstype:** Displays the camera lens type.
- **Dometype:** Displays the camera model information.
- **Vendor:** Displays the manufacturer.
- **Version:** Displays the firmware version.

Dome Menu

Press the **Dome OSD** button on the remote control to open the camera menu. Use the directional buttons to scroll and change the settings. An **&** symbol on the menu indicates that the parameter is being adjusted. Press the **Dome OSD** button again to save the settings and exit the menu.

- **Protocol:** Choose **VISCA** or **Pelco-D** as the control protocol. The change takes effect after exiting the menu.
- **Baudrate:** Choose **9600** or **38400** for the baud rate. The change takes effect after exiting the menu.
- **Pan Speed:** Set the pan movement speed to a value from **1-24**. The change takes effect after exiting the menu.
- **Tilt Speed:** Set the tilt movement speed to a value from **1-20**. The change takes effect after exiting the menu.
- **Auto Rev:** Set the image flip to **On, Off, Mirror, or Flip**. The change takes effect immediately.
- **Frame:** Set the video output frame rate to **25** or **30** frames per second. The change takes effect immediately.
- **Flicker:** Set the anti-flicker setting to **50Hz** or **60Hz**. The change takes effect immediately.
- **Preset Freeze:** When enabled, the camera freezes the image on screen while it moves to a preset PTZ position. The change takes effect after exiting the menu.

- **POS Comeback:** This setting instructs the camera to remember the last position after the set time has elapsed. This is useful for when the camera is turned back on. Set the value to **30**, **60**, or **90** seconds. The change takes effect after exiting the menu.

Lens Menu

Press the **Lens OSD** button on the remote control to open the camera menu. Use the directional buttons to scroll and change the settings. An **&** symbol on the menu indicates that the parameter is being adjusted. Press the **Lens OSD** button again to save the settings and exit the menu.

- **BL:** Turn backlight compensation **On** or **Off**. The change takes effect immediately.
- **Saturation:** Set the color saturation to a value from **0-15**. The change takes effect immediately.
- **Sharpness:** Set the sharpness to a value from **0-15**. The change takes effect immediately.
- **NR:** Set the noise reduction to **Off** or **Auto 1-4**. The change takes effect immediately.
- **WB:** Set the white balance to **Auto**, **Indoor**, **Outdoor**, **Onepush**, **ATW**, or **Manual**. When the **Manual** option is selected, you can set both the **RGAIN** (red gain) and **BGAIN** (blue gain) to a value from **0-255**.
- **AE:** Set the exposure to **Auto** or **Manual**. When set to **Manual**, you can set the shutter speed to a value from **1/10,000** to **1/60** seconds. The Iris is fixed by default and is non-adjustable. The change takes effect immediately.

Notes:

- Only the high-end models support the OSD menu display
- **Pan** and **Tilt** operations are disabled when the OSD menu is displayed.
- The settings for the **Address Code**, **Protocol**, **Baud Rate**, and **Preset Freeze** functions do not change when the **Reset** button is pressed.
- The **Shutter** can only be adjusted if **Manual** is selected in the AE menu.

- The **RGAIN** and **BGAIN** values can only be adjusted when the **WB** is set to **Manual**.

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website www.monoprice.com or through email by sending a message to tech@monoprice.com. Check the website for support times and links.

SPECIFICATIONS

Model	35520
Image Sensor	1/2.9" Sony® CMOS
Effective Pixels	2.1 megapixels
Minimum Illumination	0.1 Lux at f1.6
White Balance	Auto, Manual, Indoor, Outdoor, ATW
Gain Control	Auto
Backlight	Supported
Electronic Shutter	Supported
Video Signal-to-Noise Ratio	>50dB
Focus	f=3.3-10mm, autofocus
Iris	f1.7 ~ f3.0
Zoom	3x optical zoom
Field of View	84°
Connection Type	USB 2.0

Video Output Format	MJPEG: 1080p@30/25Hz, 720p@30/25Hz, 640x480, 640x360
Control Protocol	VISCA, Pelco-D, UVC
Naud Rate	9600bps or 38400bps
Speed Match	Speed can be determined by the magnification of the lens
OSD Menu	Supported
Image Flip	Supports image mirror and flip
PTZ Speed	1-40°/sec
Horizontal Rotation Range	330°
Vertical Rotation Range	±30°
Power Source	USB 2.0, 5 VDC, 800mA
Operating Temperature	+32 ~ +122°F (0 ~ +50°C)
Operating Humidity	0 ~ 90% RH, noncondensing
Dimensions	7.1" x 4.4" x 5.1" (180 x 112 x 129 mm)
Weight	19.4 oz. (550g)

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