

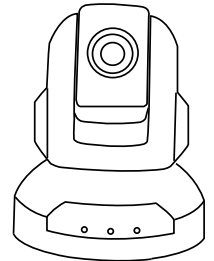
# QUICK START GUIDE

## NU-100-USB2PT-B & NU-300-USB2PTZ-B

This Nearus Video Conference Camera is equipped with HD color, smooth panning and tilting, and zooming (NU-300-USB2PTZ-B only) plus it's easy to control. In this Quick Start Guide, you'll learn how to mount, wire, and control the camera to your system all in a few short steps. Please read all instructions before installing.

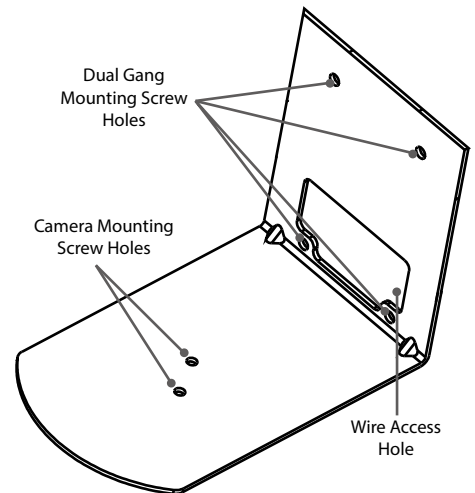
### Best Practices:

- For conference rooms where the audience will be seated around a table, install the camera below the display near eye-level for the seated participants. For larger training rooms or classrooms, mounting it above or beside the display may be preferred.
- Typical mounting height for a conference room camera is between 30-65 inches AFF.
- Proper lighting is critical for proper image quality. Back lighting from outside windows should be avoided and proper foreground lighting is highly recommended.

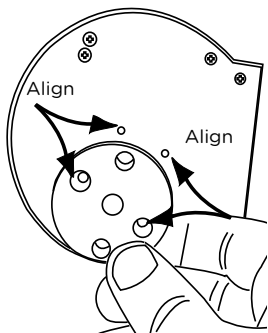


### Wall Mount Installation

1. Install a double gang junction box in the wall at the desired location.
2. Pull necessary field wires (USB extender, control wires, and power wires) to the double gang j-box.
3. Thread field wires through the L-bracket's wire access hole and secure the L-bracket to j-box using the 4 provided screws.
4. Mount the camera to the L-bracket using the 2 short screws from the underside of the camera and bracket.
5. Connect the USB cable, power connection, and control wire to the back of the camera.
6. Connect USB cable to the PC and select the 'Nearus Camera' as the video device in the software.



### Tripod/Ceiling Mount Installation



The provided threaded adapter was designed to attach the base of the camera to a standard 1/4-20 UNC threaded rod or a standard camera mount - such as a tripod.

Attach the threaded adapter (included) to the camera, using two small screws (included). Then, attach this assembly to the threaded rod or camera mount.

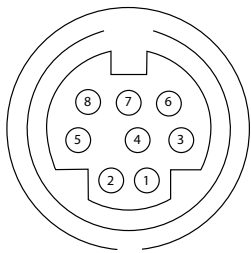
### Setting Presets

To use the presets, press the number first then press the desired action.

**1.** To Set: Press # then Set

**2.** To Call: Press # then Call

**3.** To Clear: Press # then Clear



(Camera's Female Input)

Note: Default Baud Rate: 9600

Pin S/N	Function	Pin S/N	Function
1	DTR In	5	RXD In
2	DSR In	6	GND
3	TXD In	7	IR Commander Signal Output
4	GND	8	N/A

Note: Control adapter cable is wired for pins 4 & 5, where R = 5, and G = 4.  
 More information can be found in the full manual and Visca Protocol document on our website at [www.snapav.com](http://www.snapav.com), under the support tab of the product page.

## Troubleshooting

Problem	Possible Reason	Solution
Camera Not Recognized by Computer	UVC Driver did not load properly	Unplug camera, restart computer with camera unplugged, wait for computer to boot up fully, plug camera into computer with USB cable and wait for drivers to load.
		The UVC driver is native to Windows OS, no driver is available for download. To troubleshoot, go to Device Manager, locate the camera under "Other Devices", right-click, and select uninstall. Right click again, and select "Scan for Hardware Changes" to reload the driver.
Image Fragments on a Macintosh computer.	UVC Driver may have an incompatibility.	When used with Quicktime, set video quality to Maximum.
The image is upside down or reversed.	The Reverse button has been pressed.	Press "Rev" on the remote.
	The computer's software is causing the problem.	Adjust the camera image in the software. Note: some software's display reversed in the near side but will be shown properly on the far side.
The remote isn't working.	The "Camera Select" setting on the remote does not match the "IR Select" switch number on dipswitches located on the bottom of the camera.	Choose the correct "Camera Select" button on the remote and try again.
The camera is not responding to VISCA commands when connected directly to a PC.	The connection between the PC and the camera has been disconnected.	Make sure the connection is secure. Worst case, try with another cable and a local PC.
	The device ID in the control code is not set properly.	Most commands should use "81" as the first HEX value for a camera with the default ID of 1. Example: HEX Command for Power ON is: '81 01 04 00 02 FF'

**Specifications****NU-100-USB2PT-B****NU-300-USB2PTZ-B**

Image	Sensor	1/2.7" Color CMOS, 2.1 Megapixels	1/3" Color CMOS, 1.3 Megapixels
	Minimum Scene illumination	5.0 Lux @ F2.0	0.1 Lux@F1.2
	White Balance	N/A	AUTO
	Gain Control	AUTO	
	Back-light Compensation	N/A	Manual
Lens	Focus	4mm	4.9-49mm Auto Focus
	Iris	N/A	AUTO
	Zoom	N/A	10 X Optical ZOOM
Video Output	USB 2.0, MJPEG		
Video Format	1080p @30Hz, 720p @ 30Hz	720p @ 30Hz	
IR Control	Front & Rear Sensors		
Communication	EIA/RS-232 (Bidirectional), EIA/RS485		
PTZ Control Protocol	VISCA, PELCO-D		
Baud Rate	9600 / 38400 bps		
Preset	64		
Save status after Power off	Yes		
Pan Speed	1-120°/s		
Tilt Speed	1-100°/s		
Pan Rotation Angle	360° Continuous		
Tilt Rotation Angle	+90°, -45°		
Auto Pan Scan	Yes		
Remote Control	IR Wireless remote control P/T	IR Wireless remote control P/T/Z	
Power	DC12V ±10% 2A		
Operation Temperature	32-122° F		
Environmental humidity	0-95%RH (non-condensation)		
Camera Dimensions	4.88" W x 5.71"H x 4.72"D / 8.66"W x 8.66"H x 6.89" D		
Weight	1.41 lbs/4.0 lbs (Camera/Net)	1.61 lbs/4.12 lbs (Camera/Net)	

