

HuddleCamHD 3x

USB 2.0 PTZ CAMERA

INSTALLATION & OPERATION MANUAL





Precautions.....

Safety <u>Tips.....</u>

- Please read this manual carefully before using the camera.
- Avoid damage from stress, violent vibration or liquid intrusion during transportation, storage or installation.
- Take care of the camera during installation to prevent damage to the camera case, ports, lens or PTZ mechanism.
- Do not apply excessive voltage. (Use only the specified voltage.) Otherwise, you may experience electrical shock.
- Keep the camera away from strong electromagnetic sources.
- Do not aim the camera at bright light sources (e.g. bright lights, the sun, etc.) for extended periods of time.
- Do not clean the camera with any active chemicals or corrosive detergents.
- Do not disassemble the camera or any of the camera's components. If problems arise, please contact your authorized dealer.
- After long term operation, moving components can wear down. Contact your authorized dealer for repair.

In the Box.....

Supplied Equipment.....

- 3x Zoom USB 2.0 HD Video Conference Camera
- 12V/2.0A DC Power Adapter
- USB 2.0 A-B cable (16ft / 4.9m)
- RS-232C Serial Control cable
- RS-232C to RS-485 adaptor cable
- Wall Mount
- IR Remote Controller
- Quick Start Guide



Physical Description.....

1. Front View.....



1. Lens

2. IR Receiver

To receive IR remote controller signal.

3. Power LED

Blue LED lights when unit is powered, LED is dark for Stand-By status.

4. IR Receiver

To receive IR remote controller signal.



2. Rear View.....



5. USB 2.0 Interface

For connection to PC (USB 2.0 port. Will also function in a USB 3.0 port as USB 2.0 device).

6. DC12V In Socket

Only use the power adapter supplied with this camera.

7. IR Receiver

To receive IR remote controller signals.

8. RS232 IN Port

For hard wired remote control from a 3rd party PC, joystick, etc...

9. RS485 IN Port

For hard wired remote control from a $3^{\rm rd}$ party PC, joystick, etc...



3. Bottom View.....



1. Tripod / Wall Mount / Ceiling Mount

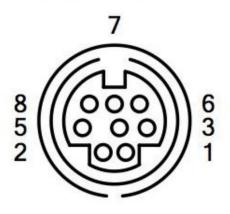
Will accept 1/4-20 bolt from 3^{rd} party tripod, wall or ceiling mount.



Cable Connection Info.....

VISCA RS-232C - IN Reference.....

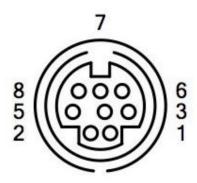
VISCA RS-232C IN



Pin S/N	Function DTR IN	
1		
2	DSR IN	
3	TXD IN	
4	GND	
5	RXD IN	
6	GND	
7	IR Commander Signal OUTPUT	
8	NO Connection	

VISCA RS-485 - In Reference.....

VISCA RS-485 IN



D:- C/N	Function		
Pin S/N	RS-232	RS-485	
1	DTR OUT	TX+	
2	DSR OUT	TX-	
3	TXD OUT		
4	GND		
5	RXD OUT		
6	GND		
7		RS-485 -	
8		RS-485+	



OSD MENU.....

On Screen Display Menu - Use the OSD menu to access and change the camera's settings.

Note: You cannot manually move the camera (pan / tilt) when the OSD menu is visible on the screen.

The Dome OSD Menu is as follows:

	_				
_	Pr	<u> </u>	-^	_	\sim 1
•	ГΙ.	w			u

o Dome Address Default: 1

1 - 7

Dome Protocol
 Default: VISCA

VISCA, PELCO-D

o Baud Rate Default: 9600

2400, 4800, 9600, 38400

Pan/Tilt

o IR Address Default: 1

1 - 3

o Pan Speed Default: 14

1 - 24

o Tilt Speed Default: 10

■ 1 - 18

Picture FreezeOn, OffDefault: Off

Loc Resume
 Default: Off

Off, 30, 60, 90

Information

Version

Model

o Date



The Lens OSD Menu is as follows:

 Exposure

o Brightness Default: 50

■ 1 - 255 (increments of 5)

BacklightDefault: Off

On, Off

AE (Auto Exposure)
 Default: Auto

Auto, Shutter

o Shutter Default: 1/30

1/25, 1/30, 1/50, 1/60, 1/75, 1/90, 1/100, 1/120, 1/125, 1/150, 1/180, 1/215, 1/250, 1/300, 1/350, 1/425, 1/500, 1/600, 1/725, 1/1000, 1/1250, 1/1500, 1/1750, 1/2000, 1/2500, 1/3000, 1/3500, 1/4000, 1/6000,

1/10000

o ANTI-Flicker Default: 60

50 / 60

Color

o Hue Default: 50

1 - 100

SaturationDefault: 50

1 - 100

SharpnessDefault: 50

1 - 127

WB (White Balance)Default: Auto

Auto, Manual

o Color Temp Default: 4900

4000 - 5400 (increments of 100)

Image

o Image Flip Default: Off

Mirror, Off, All, Flip

Frame (frames per second)Default: 30

25 / 30

Image Mode
 Default: Normal

Clear, Bright, Beauty, Normal



IR Remote Controller (Note: Some buttons do not operate for all camera models)

Reset:
 Restarts the camera and restores it to Factory Default settings.
 (Note: Will delete all memory).

2. Camera Selection

Select Camera ID: 1, 2 or 3

3. Preset Positions

1-9: Preset PositionsSet: Setting Preset Position

Clear: Clear Preset Position
Call: Call Preset Position

Note: To Set / Call preset position 1, you should press number key "1", then press Set / Call to Set or Call the position.

4. Fast Zoom in/out Control Zone

+: Zoom in quickly

-: Zoom out quickly

5. Pan/Tilt Controller

Move Up

Move Down

Move Left

Move Right

Auto Pan

6. Additional Function Zone

Freeze: Image Freeze BL: Back-light Compensation

WB: White Balance AE: Auto Exposure D Zoom: Digital Zoom

HDMI: Swap to HDMI video output DVI: Swap to DVI video output

Format: Swap between different formats

7. **Power Supply Switch**Power On / Off button

8. OSD Menu Zone

Dome OSD: Enter Pan Tilt Zoom OSD menu Lens OSD: Enter lens OSD menu

9. Slow Zoom In/Out Zone

+: Zoom in slowly

-: Zoom out slowly

10. Focus Control Zone

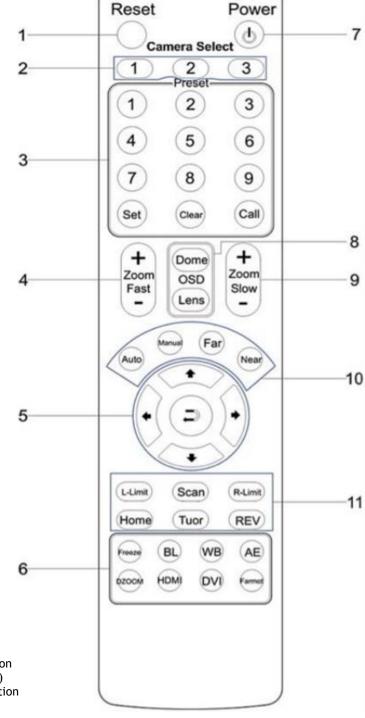
Auto: Turn on auto focus Manual: Turn on manual focus Far: Set focus at farther distance Near: Set focus at nearer distance

11. Pan/Tilt Function Zone

L-Limit: Set left boundary limit scanning position Scan: Enable Boundary Scanning (Auto Panning) R-Limit: Set right boundary limit scanning position

Home: Go to camera's Home position

Tour: Enable automatic patrol tour of presets Rev: Enable image flip for ceiling mounting





Connection Instructions.....

- 1. Connect included Power Supply to the camera.
- 2. Wait for camera to come to Home Position.
- 3. Connect included USB 2.0 cable to camera and USB 2.0 port of PC.
- 4. Select and configure camera in your software of choice.

NOTE: Failure to follow this sequence may result in no connection to PC.

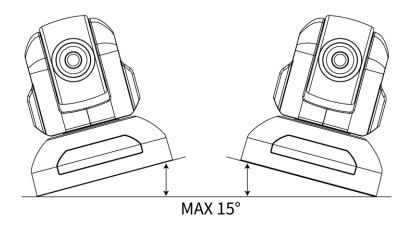
Care Of The Unit.....

Remove dust or dirt on the surface of the lens with a blower (commercially available).

Installation Instructions.....

Desktop Installation.....

When using the HuddleCamHD Camera on a desk, Make sure that it will stand level. If you want to use the camera on an incline, make sure the angle is less than 15 degrees to ensure that the camera's pan and tilt mechanism operates normally.

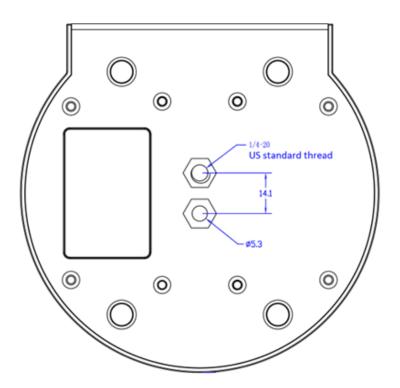




Tripod Installation.....

When using the HuddleCamHD Camera with a tripod, screw the tripod to the bottom of the camera. The tripod screw must fit below specifications:

Note: Tripod must stand on a level surface.



Wall Mount Installation.....

The camera includes a wall mount allowing you to mount the camera to a wall. Follow the figures below to mount your camera to the wall.

Position mounting holes on the wall.

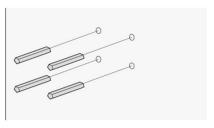


Fig. 1

Screw the wall mount into place.

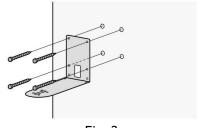


Fig. 2

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Screw the camera onto the wall mount with a 1/4-20 mount screw.

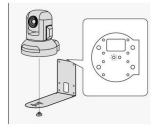


Fig. 3



USB Connection.....

Important Notes Regarding USB Connectivity:

USB 3.0 ports are backwards compatible with USB 2.0 devices. USB 2.0 ports are not completely forward compatible with USB 3.0 devices (some USB 3.0 devices will connect to USB 2.0 with limited functionality).

External USB hubs should be avoided (i.e. give the camera its own USB port on the device) as they are not well suited to transmitting HD video reliably.

USB extension systems must be fully compatible with the version of USB that you are using and must utilize an external power supply, when required. Caution: Some "compatible" USB 3.0 extenders do not actually have the full 5Gbps bandwidth required for uncompressed HD video - so check bandwidth specs. Always connect the HuddleCamHD camera directly to the device in order to associate the UVC drivers before attempting to use any extension system.

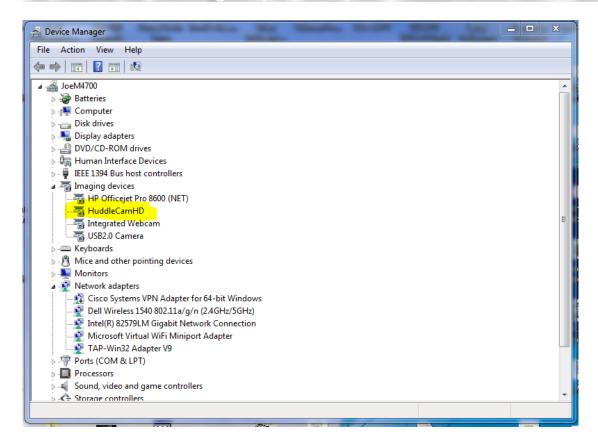
USB 3.0 power saving settings in the device's operating system should be turned off completely for reliable USB 3.0 camera connectivity.

HuddleCamHD Cameras

All HuddleCamHD cameras utilize the UVC (USB Video Class) drivers that are built into Windows, Mac OS and Linux to stream HD video to your device via your device's USB port (USB 2.0 or USB 3.0 depending upon HuddleCamHD camera). When your device successfully recognizes the camera, your device will register the HuddleCamHD camera as an "imaging device".

You can see this in your Windows Device Manager program (type "device manager" into the Windows search tool) as shown in the screenshot, below:



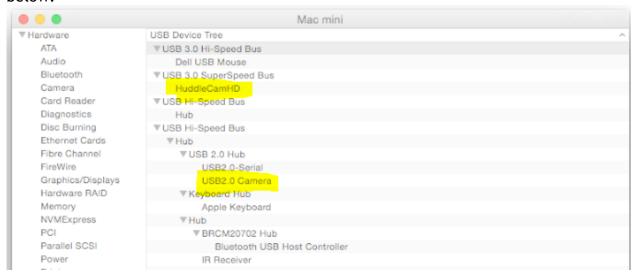


In this example, you can see the HuddleCamHD camera in use connected as a fully functional USB 3.0 device (HuddleCamHD) as well as a USB 2.0 device with limited functionality (USB2.0 Camera).

If your device has not connected to or has not recognized the HuddleCamHD camera as an imaging device (in which case, you may see a new "unknown device", "Westbridge" or "CYTFX3" labeled device show up in Device Manager's "Universal Serial Bus Controllers" section rather than in the "Imaging Devices" section), the HuddleCamHD camera will not be available to programs that utilize a camera. In this case, try restarting the device and reconnecting the camera via USB (USB 2.0 or USB 3.0 depending upon HuddleCamHD camera).



Similarly, you can see a connected device in System Information on a MAC. See screenshot below:



In this example, you can see the HuddleCamHD camera in use connected as a fully functional USB 3.0 device "HuddleCamHD" as well as a "USB2.0 camera" with limited functionality (USB2.0 camera).



Troubleshooting.....

Problem	Cause	Resolution
There is no power to the	Power adapter is	Check the connections
camera.	disconnected from mains	between the camera,
	or from camera.	power adapter and mains.
		If anything is
		disconnected, reconnect
		it.
	LICE II : I	T USD C III
Camera will not connect	USB cable is bad.	Try new USB Cable
to the PC via USB.	Camera connects	Connect USB only after
	sometimes.	camera has completely
		booted.
Camera unable to pan,	Menu is currently	Retry after exiting the
tilt, and/or zoom.	displayed on the screen.	menu.
cite, and or 200111	Pan, tilt or zoom range	Try to pan/tilt/zoom in
	limit was reached.	the other direction.
Remote control not	The "camera select"	Choose the correct "IR
working.	button on the remote	select" number to match
3	control is not set to match	camera settings.
	the "IR address" set on	
	the camera dip switch.	
Camera cannot be	The connection between	Refer to Cable Connection
controlled via VISCA.	the PC and camera is	Info section of this
	incorrect.	manual.
	Commands being sent are	Refer to VISCA manual.
	incorrect.	
The Camera is not	No response or image	Disconnect power, and
working at all.	from camera.	wait a few minutes, then
		connect the power again.
		Retry.



Specs......

Model Number: HC3X-(xx)-G2 Color (xx): WH=White; BK=Black

Camera & Lens

• Video CMOS Sensor 1/2.8" CMOS, 2.1 Mega Pixel

• Frame Rate 30fps 1920 x 1080p

• Lens Zoom 3X Optical Zoom f = 3.3-10mm

• Iris F1.7 - F3.0

• Horizontal Field of View 34° (tele) to 82° (wide)

• Warranty 2 Years parts and labor

Pan/Tilt Movement

• Pan Movement 0 - 355°, 48°/s (maximum)

• Tilt Rotation Up: 90°, Down: 30°

• **Presets** 64 Presets

Rear Board Connectors

• Video Interface USB 2.0, Type B

• Control Signal Interface Mini DIN-8 (RS232 IN, RS485 IN, Pelco-D IN)

Control Signal Config.
 Baud Rate
 Dome - On Screen Display Menu
 2400, 4800, 9600, & 38400 bps

• Power Supply Interface DC 12V 2A

Electrical Index

• Power Supply Adapter 12V DC 2A

• Input Voltage 12V DC (10.5-14V DC)

• Input Power 24W (Max)

• Working Environment Indoor

Physical

Material Aluminum, Plastic

• **Dimensions** 4.88"W x 5.5"H x 4.75"D [6"H w/ Tilt Up]

(124mm x 139mm x 120mm [152mmH w/ Tilt Up])

• Weight 1.66 lbs (0.75 kg)

• **Box Dimensions** 8.75" x 8.88" x 7" (222mm x 225mm x 178mm)

• **Boxed Weight** 3.66 lbs (1.66 kg)

• Color Black & White

Operating Temperature
 Storage Temperature
 32°F to + 113°F (0°C to +45°C)
 -14°F to 140°F (-10°C +60°C)

• Working Environment Indoor only