

### HuddleCam-HD<sup>™</sup> 20X

### **User Manual**

Please read this Manual before setting up and using the camera to ensure it's best performance. www.HuddleCamHD.com

### Providing USB Video Conferencing Solutions for the 21<sup>st</sup> Century





152 Robbins Rd, Downingtown, PA, 19335, USA	- HuddleCamHD.com I 1 800	- 486-5276
---	---------------------------	------------

Precautions.....

<u>Safe</u>	ty Tips
	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.

#### Supplied Accessories.....

- HD Color Video Camera (1)
- 12V/2.0A DC Power Adapter (1)
- Installation Bracket (1)
  - Installation Screw (1)

 $\square$ 



- USB 3.0 Data Lines (3m), Serial Control Line, RS-232C to RS-485 Cable
- IR Remote Controller (1)

User Manual (1)

Π

#### Rear Board Connectors.....

High Definition Interface:	USB 3.0
Control Signal Interface:	Mini DIN-8 (VISCA IN, VISCA OUT/RS485)
Control Signal Configuration:	Dip-Switch Pin 7/TTL Signal; Baud Rate: 9600bps
Power Supply Interface:	DC 12V Socket

<u>Electrical</u>.....

Power Supply Adapter:	12V DC/2A
Input Voltage:	12V DC (10.5-14V DC)
Input Power:	24W (MAX)

#### Structure.....

Material:	Aluminum, Plastic
Dimensions (W x H x D):	9.84 in. (250mm) x 5.51 in. (140mm)
	x 6.06 in. (154mm)
Mass:	2.84 lbs. (1.29 kg.)
Working Environment:	Indoor
Operating Temperature:	32°F (0°C) to 113°F (45°C)
Storage Temperature:	-14°F (-26°C) to 140°F (60°C)
Color:	Silver Gray



Rear Board & Function.....

1. Front View.....



1. Lens

20x Optical Zoom.

2. IR Receiver

To receive IR remote controller signal.

3. Power LED

Blue LED blinks when unit is powered.

4. Stand by LED

Orange LED blinks for Stand-By status, Blue LED for Working Status.

5. IR Receiver

To receive IR remote controller signal.



2. Rear View.....



6. Power Switch

Power On/Off button.

7. DC IN 12V Socket

Only use the Power Adapter supplied with this camera.

8. IR Receiver

To receive IR remote controller signals.

#### 9. IR Selective Switch

When using only one remote to control more than one camera, this switch will assign a unique ID to each camera.

#### 10. VISCA IN Port

For hard wired remote control from a 3<sup>rd</sup> party PC, joystick, etc...

#### 11. VISCA Out Port/RS485

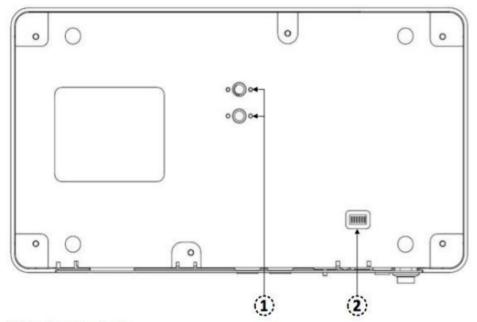


Used for daisy chaining multiple cameras for RS-232 RS-485 control.

12. USB 3.0 Interface

For connection to PC USB 3.0 port (also compatible with USB 2.0 port and driver).

#### 2. Bottom View.....



#### 1. Tripod

Will accept 1/4-20 bolt from 3<sup>rd</sup> party tripod, wall or ceiling mount.

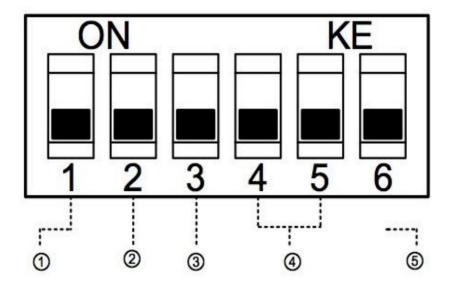
2. Dip-Switch

Used for selecting baud rate and the remote signal output switch.

# i i HuddleCamHD

152 Robbins Rd, Downingtown, PA, 19335, USA - HuddleCamHD.com I 1 800 - 486-5276

4. Dip-Switch Settings.....



Note: When changing Dip-Switch settings, make all changes with camera powered off.

Dip-Switch 1 - (To set communication baud rate).

Dip-Switch 2 - (To set control protocol).

Dip-Switch 3 - (Set only for firmware upgrading).

**Dip Switch 4 & 5 -** (To set camera's RS232/RS485 ID number - for daisy chain wired control).

	Dip-switch4	Dip-switch 5
1	OFF	OFF
1	OFF	ON
2	ON	OFF
3	ON	ON

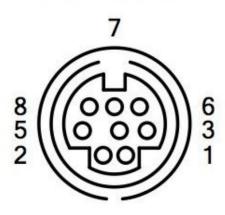
#### Camera address code setting

## **i i** HuddleCamHD

152 Robbins Rd, Downingtown, PA, 19335, USA - HuddleCamHD.com I 1 800 - 486-5276

Cable Connection Info..... VISCA RS-232C - IN Reference.....

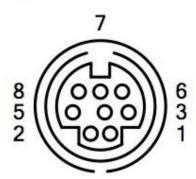
VISCA RS-232C IN



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

VISCA RS-232C - Out Reference.....

VISCA RS-232C OUT



	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:

Pan Speed Set speed of Pan motor - Range =	Default Value: 20 1 - 63
Tilt Speed Set speed of Pan motor - Range =	Default Value: 20 1 - 63
Scan Speed (Auto Pan Mode) Set speed of boundary scan - Rang	Default Value: 6 ge = 1 - 63
Tour Path (uses presets) Select desired tour path - Range =	Default Value: 1 1 - 4
Tour Dwell Set duration to dwell on each pres	Default Value: 5 set - Range = 1 - 60
Proportion Set Proportion - Range = On - Off	Default Value: On
Auto Rev Set camera mounting orientation -	Default Value: P - N for inverted ceiling mount
Frame Set Refresh Rate - Range = 50Hz o	Default Value: 60Hz or 60 Hz



#### The Lens OSD Menu is as follows:

	/DR /ide Dynamic Range = On or Off	Default Value: Off
_	ACKLIGHT N/OFF	Default Value: OFF
	R (Noise Reduction) djustable Value: 0-5	Default Value: 3
Α	/B (White Balance) uto/Manual/Outdoor/Indoor/One Manual Settings):	Default Value: Auto Push/ATW
	R GAIN (Red Gain) Adjustable Scope: 0-255	Default Value: 64
	B GAIN (Blue Gain) Adjustable Scope: 0-255	Default Value: 84
Α	E (Auto Exposure) uto/Manual Manual Settings):	Default Value: Auto
	SHUTTER Shutter Speed Range: 1/1-1/100	Default Value: 1/1 00
	IRIS Close/F1.4-f22	Default Value: Close
	BRIGHT Set Brightness 0 - 31	Default Value: 0



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

1.	Reset: Restarts the camera and restores it		Reset	Power	
	to Factory Default settings.		$\cap$	(b)	- 7
2.	(Note: Will delete all memory). Camera Selection	1	Camera		/
۷.	Select Camera ID: 1, 2 or 3	C24.04			
3.	Preset Positions	2	-(1) (2)	) (3)	
	1-9: Preset Positions		Pres	et.	
	Set: Setting Preset Position		1 2	3	
	Clear: Clear Preset Position				
	Call: Call Preset Position				
	Note: If you want to set (or call) the first		(4) (5	) (6)	
	preset position to 1, you should press	3			
	number key "1", then press	5			
	"Set" (or "Call") to set (call) the position.		(7) (8	) (9)	
4.	Fast Zoom in/out Control Zone				
	+: Zoom in quickly		(Set) Clea	r (Call)	
E	-: Zoom out quickly Pan/Tilt Controller				
5.	Pail/ IIIt Controller				
	Move Up		+ Dom		0
	Move Down	4	Zoom OSI	Zoom	9
	Move Left		Fast Len	Slow	
	MOVE LET			9 - 1	
	Move Right				
	-		Manual	Far	
	🛏 Auto Pan				
6.	Additional Function Zone		Auto	Near	
	Freeze: Image Freeze		•		10
	BL: Back-light Compensation				
	WB: White Balance AE: Auto Exposure	~			
	D Zoom: Digital Zoom	5	• ( •		
	HDMI: Swap to HDMI video output				
	DVI: Swap to DVI video output		Y~	$\sim$ y	
	Format: Swap between different formats		•		
7.	Power Supply Switch				
	Switch for turning camera on		(L-Limit) (Sca	n) (R-Limit)	
	(i.e. Stand-By mode vs. Working mode)				11
8.	OSD Menu Zone		Home Tuo	r) (REV)	
	Dome OSD: Enter Pan Tilt Zoom OSD menu				
	Lens OSD: Enter lens OSD menu		Freeze BL	WB AE	
9.	Slow Zoom In/Out Zone	G			
	+: Zoom in slowly	0	AZOON HOM	DVI Farmed	
10	-: 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				
			(	J	
Vor 1	2 6/26/15				
ver I.					



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 3.0 cable to camera and USB 3.0 port of PC (unit is also backwards compatible with USB 2.0 port).
- 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.....

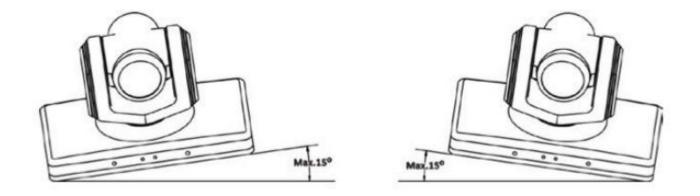
Remove dust or dirt on the surface of the lens with a blower (commercially available).



Installation Instructions.....

Desktop Installation.....

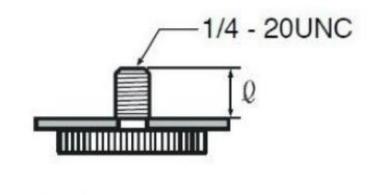
When using the HuddleCam<sup>M</sup> on a desk, Make sure that it will stand level. If you want to use the camera on an incline, make sure the angle is less than 15 degrees to ensure that the camera's pan and tilt mechanism operates normally.



Tripod Installation.....

When using the HuddleCam<sup>™</sup> 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.

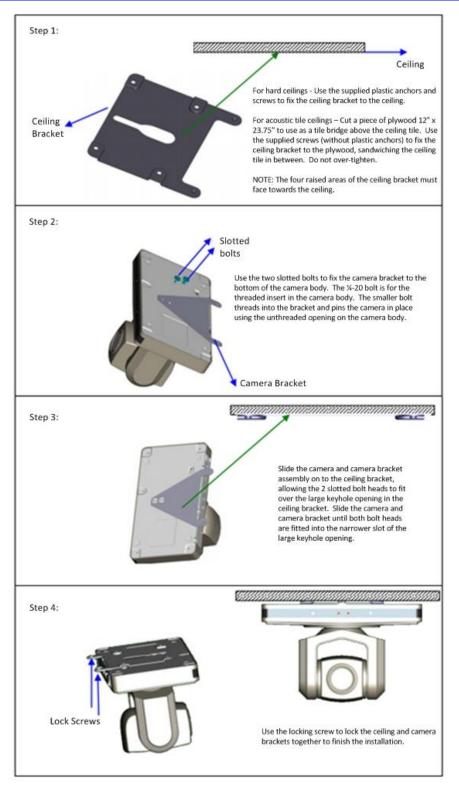


Q = 5 - 7 mm

# i i HuddleCamHD

#### 152 Robbins Rd, Downingtown, PA, 19335, USA - HuddleCamHD.com I 1 800 - 486-5276

#### Ceiling Mount.....





#### 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.
	Power switch is set to OFF.	Set the power switch to
		ON.
Camera will not connect to	USB cable is bad.	Try new USB Cable
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.
	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
	control is not set to match	camera settings.
	the "IR select" switch	
	number set on the camera.	
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.
The Comerce is not work in the	incorrect.	Discourse at a surger and
The Camera is not working	No response or image from	Disconnect power, and
at all.	camera.	wait a few minutes, then
		connect the power again.
		Retry.



USB 3.0 provides high quality 1920x1080 pixels progressive @ 30fps

152 Robbins Road Downingtown, PA 19335 | www.HuddleCamHD.com | 1800 486 5276