HuddleCamHD

HuddleCam-HD™ 3X Wide
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 21st Century

HuddleCamHD

USB 3.0 HD Camera

Precautions..

Safety 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)

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

- IR Remote Controller (1)
- User Manual (1)

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

Electrical...

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

   3x 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.

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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 3rd party PC, joystick, etc…
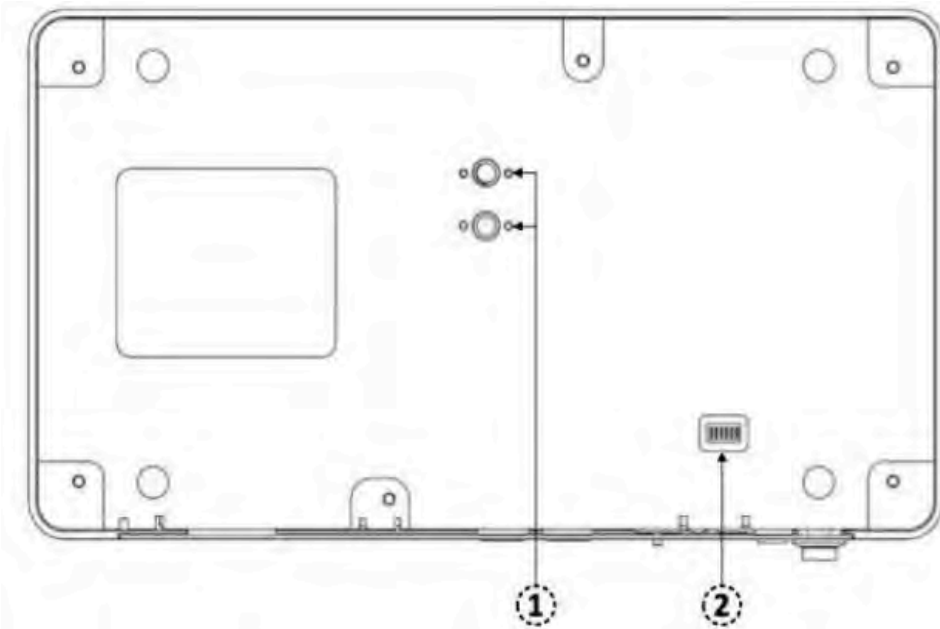
11. VISCA Out Port/RS485

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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. BottomView..
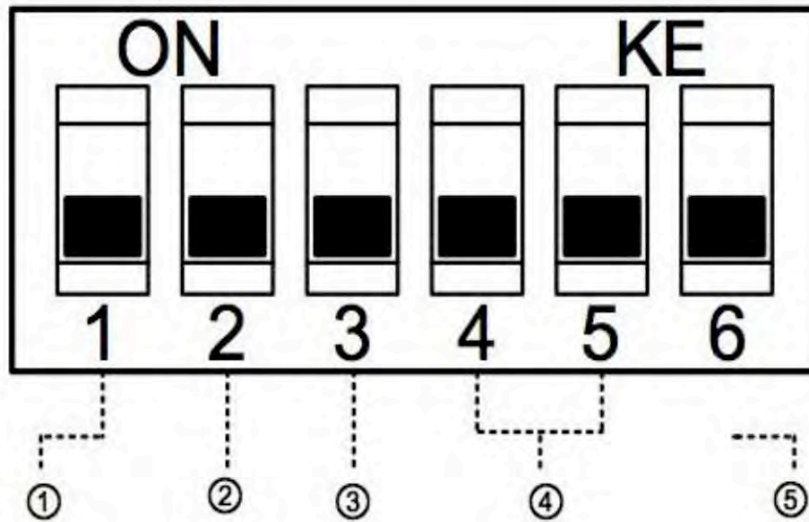

1. Tripod

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

2. Dip-Switch

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

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).
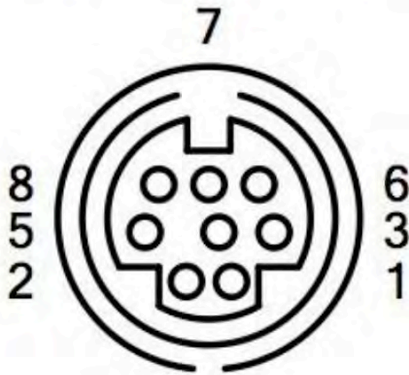
Camera address code setting

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

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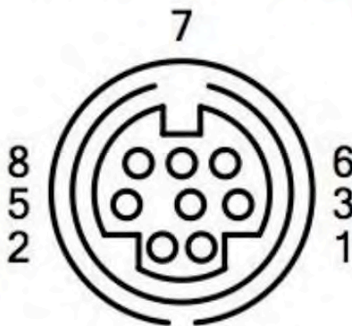
Pin S/N	Function	
	RS-232	RS-485
1	DTR OUT	TX+
2	DSR OUT	TX-
3	TXD OUT	
4	GND	
5	RXD OUT	
6	GND	
7		RS-485 -
8		RS-485 +

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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   Default Value: 20
  Set speed of Pan motor - Range = 1 - 63

- Tilt Speed   Default Value: 20
  Set speed of Pan motor - Range = 1 – 63

- Scan Speed (Auto Pan Mode)   Default Value: 6
  Set speed of boundary scan - Range = 1 – 63

- Tour Path (uses presets)   Default Value: 1
  Select desired tour path - Range = 1 – 4

- Tour Dwell   Default Value: 5
  Set duration to dwell on each preset - Range = 1 – 60

- Proportion   Default Value: On
  Set Proportion - Range = On – Off

- Auto Rev   Default Value: P
  Set camera mounting orientation – N for inverted ceiling mount

- Frame   Default Value: 60Hz
  Set Refresh Rate - Range = 50Hz or 60 Hz

The Lens OSD Menu is as follows:

- DISPLAY   Default Value: Off
  On Screen Display = On or Off

- DZOOM   Default Value: Off
  Enable Digital Zoom = On or Off

- BACKLIGHT   Default Value: OFF
  ON/OFF

- NR (Noise Reduction)   Default Value: 3
  Adjustable Value: 0-5

- WB (White Balance)   Default Value: Auto
  Auto/Manual/Outdoor/Indoor/One Push/ATW
  (Manual Settings):

  - R GAIN (Red Gain)   Default Value: 64
    Adjustable Scope: 0-255

  - B GAIN (Blue Gain)   Default Value: 84
    Adjustable Scope: 0-255

- AE (Auto Exposure)   Default Value: Auto
  Auto/Manual
  (Manual Settings):

  - SHUTTER   Default Value: 1/1
    Shutter Speed Range: 1/1-1/10000

  - IRIS   Default Value: Close
    Close/F1.4-f22

  - BRIGHT   Default Value: 0
    Set Brightness 0 - 31

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

1.   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 Positions
      Set: Setting Preset Position
      Clear: Clear Preset Position
      Call: Call Preset Position
      Note: If you want to set (or call) the first
      preset position to 1, you should press
      number key "1", then press
      "Set" (or "Call") to set (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
      Switch for turning camera on
      (i.e. Stand-By mode vs. Working mode)
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

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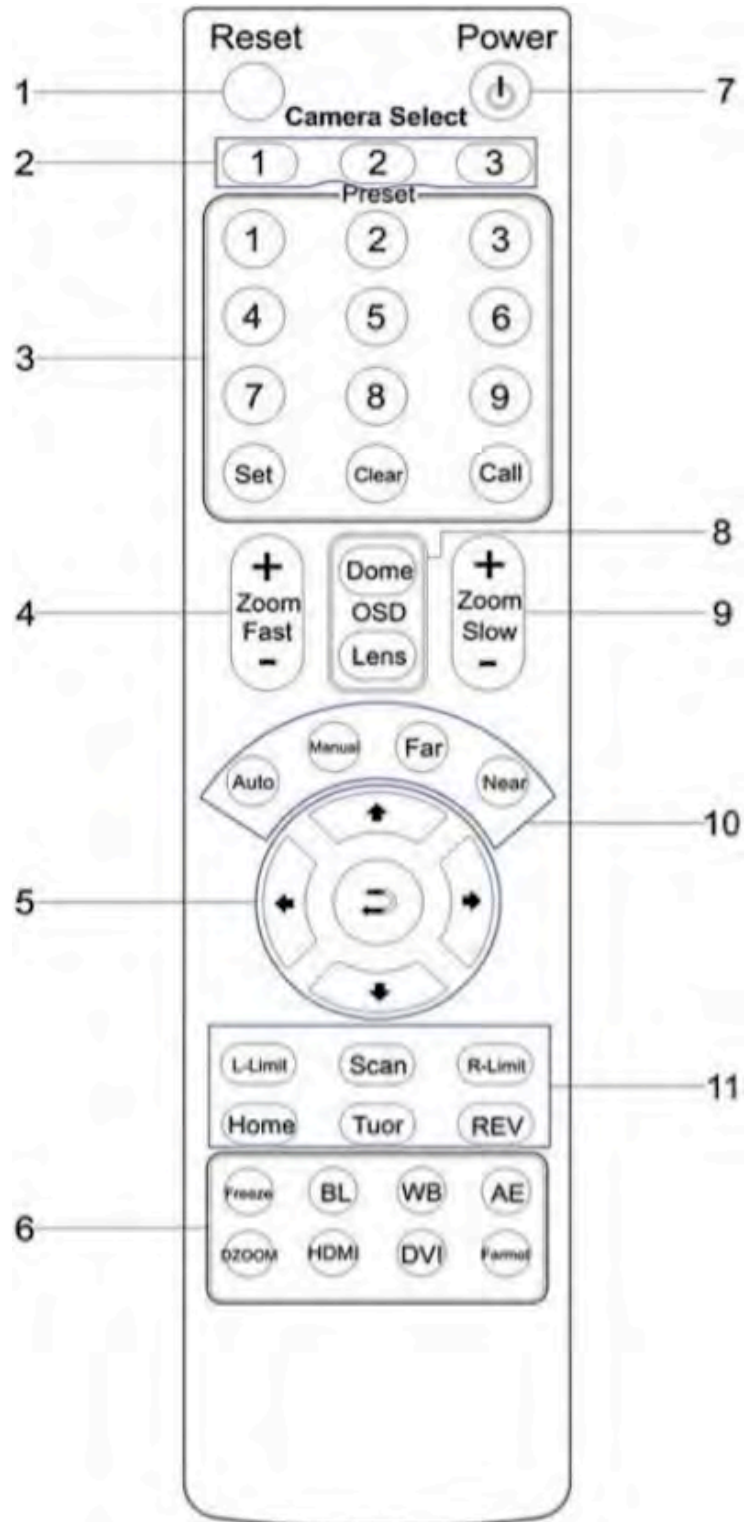
11.   Pan/Tilt Function Zone
        L-Limit: Set left boundary limit scanning position
        Scan: Enable Boundary Scanning (Auto Panning)
        R-Limit: Set right boundary limit scanning position
        Home: Go to camera's Home position
        Tour: Enable automatic patrol tour of presets
        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..
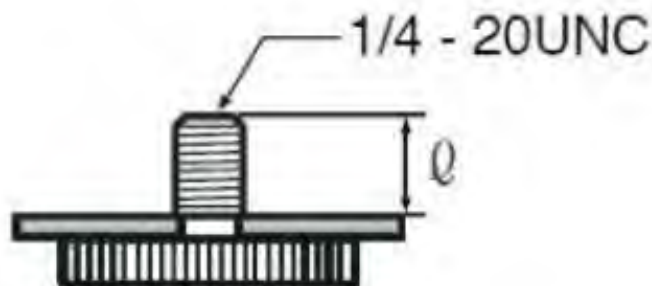
When using the HuddleCam™ on a desk, Make sure that it will stand level. If you want to use the camera on an incline, make sure the angle is less than 15 degrees to ensure that the camera's pan and tilt mechanism operates normally.

Tripod Installation..

When using the HuddleCam™ 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.
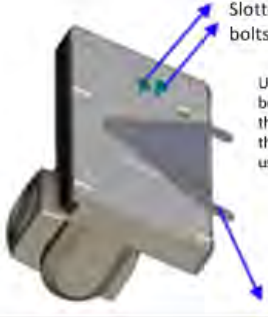
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Step 1:

Ceiling

Ceiling Bracket

For hard ceilings - Use the supplied plastic anchors and screws to fix the ceiling bracket to the ceiling.

For acoustic tile ceilings – Cut a piece of plywood 12" x 23.75" to use as a tile bridge above the ceiling tile. Use the supplied screws (without plastic anchors) to fix the ceiling bracket to the plywood, sandwiching the ceiling tile in between. Do not over-tighten.

NOTE: The four raised areas of the ceiling bracket must face towards the ceiling.

Step 2:

Slotted bolts

Use the two slotted bolts to fix the camera bracket to the bottom of the camera body. The ¼-20 bolt is for the threaded insert in the camera body. The smaller bolt threads into the bracket and pins the camera in place using the unthreaded opening on the camera body.

Camera Bracket

Step 3:

Slide the camera and camera bracket assembly on to the ceiling bracket, allowing the 2 slotted bolt heads to fit over the large keyhole opening in the ceiling bracket. Slide the camera and camera bracket until both bolt heads are fitted into the narrower slot of the large keyhole opening.

Step 4:

Lock Screws

Use the locking screw to lock the ceiling and camera brackets together to finish the installation.

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Troubleshooting...

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

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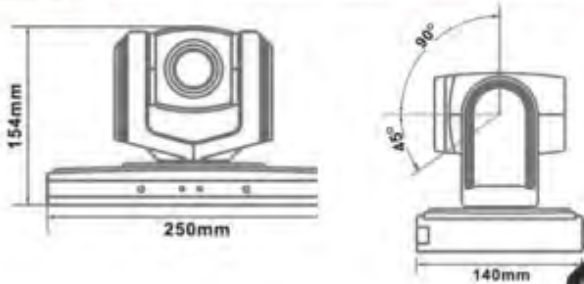
• Technical Specifications

- 1920x1080p 30fps | 1280x720p 30fps
- 3X Optical Zoom
- 12X Digital Zoom
- 1/2.8 Exmor CMOS Sensor
- Field of View 90°
- Focal Length:f=3-9MM;
- 3.27 Megapixels
- Pan 355°
- Tilt +125°
- 9 Presets
- Real SONY Lens/Camera Module
- Min Lux 1.0 at F 1.2
- VICA Control / Baud Rate 9600/38400bps
- Supports image flip

154mm

250mm

140mm

90°

45°

RS-232

RS-232 / USB

USB 3.0

RS232 Joystick

Crestron/Extron Control System

Soft Codec PC
Cloud Based Video Conferencing. (USB 3.0 for Video & USB 2.0 for Remote PTZ Control)

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

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Hi-Tech Meeting Rooms > Sound Masking > Digital Signage > Network Video
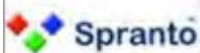
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