

## HCS-3316HDN

### HD Videoconference Camera



#### Features

- Dedicated HD videoconference camera
- Built-in 1/2.8-type HD CMOS image sensor with 5M pixels, 20x zoom lens, providing 240x zoom ratio (20x optical plus 12x digital)
- Broadcast quality full HD image up to 1080p60
- Wide dynamic range, high S/N ratio and 2D/3D noise reduction algorithm reproducing clear images in poorly-illuminated environment
- H.265/H.264 video coding and G7.11/G7.26 audio coding for 1080p baseband streaming
- Reliable, fast and quiet PTZ operation
- Simultaneous transmission of 3G-SDI, HDMI and IP full HD video
- Versatile connectivity supports for VISCA or PELCO-D protocols via RS-485/RS-232, which allows for efficient remote camera control
- 10M/100M adaptive Ethernet port, for video and audio stream output and control data interaction
- Built-in conversion lens for wide viewing angle (61°)
- Support up to 64 presets, pan, tilt and zoom values can be saved even after reboot

HCS-3316HDN can deliver high quality video signals simultaneously through two HD video outputs. It also boasts of rapid, smooth and silent PTZ operation thanks to its direct drive motor. The camera covers a wide shooting range, with a wide pan range of 300° ( $\pm 150^\circ$ ) and a tilt range of 120° (-30° to +90°). Both pan and tilt speeds are variable within the range of 0.1° to 200° and 0.1° to 150° respectively. Conference rooms everywhere are making the transition to HD and it makes this change effortless. This unique camera employs a 1/2.8-type HD CMOS image sensor with five mega effective pixels and can be used in combination with any number of codecs and other systems to produce high-quality, high-resolution images. With its wide field of view, built-in 20x optical zoom lens, 16:9 aspect ratio video and high-speed, quiet pan/tilt operation, the camera can cover subjects across widerspace with minimal disturbance. Combining convenient features such as auto focus/ auto exposure, 64-position presets, auto cruise, configurable scan mode, remote control, and external control via standard RS-485/232 interface, it is ideal for application including videoconferencing, distance learning, corporate training, etc.

#### Technical Specifications

##### Electrical

Image sensor	1/2.8-type HD CMOS sensor
Effective pixels	Five mega pixels
Signal system	HD: 1080p60, 1080p50, 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50, 720p30, 720p25
Shutter speed	1/60 s - 1/10000 s (60Hz), 1/50 s - 1/10000 s (50Hz)
Minimum illumination	0.5 lux (50IRE, F1.6)
Horizontal viewing angle	61° (wide)
Lens	20x Optical + 12x digital
Noise reduction	2D/3D noise reduction algorithm
SNR	>55 dB
Synchronous mode	Inter-sync
Back light	On/Off/Auto
Pan speed	0.1°/s - 200°/s
Tilt speed	0.1°/s - 150°/s
Pan angle	-170° to +170°
Tilt angle	-30° to +90°
Preset position	255 (TAIDEN conference management software can preset, clear and recall 64 preset positions)
Preset precision	0.1°
Video output	HD-SDI, HDMI
Multiple video outputs	Simultaneous output of 2 HD video and 1 IP video
Ethernet interface	10M/100M adaptive Ethernet port
Control protocol	PELCO-D, VISCA
Control interface	RS-485, RS-232
Baud rate	2400/4800/9600/19200/38400 bps
Video coding standard	H.265, H.264
Main stream resolution	1920x1080, 1280x720
Sub stream resolution	720x576, 720x480, 960x540
Bitrate	variable (128k-8192kbps)/fixed
Frame rate	50Hz: 1-50fps, 60Hz: 1-60fps
Address range	0 ~ 255
Operating temperature	0°C ~ +50°C
Storage temperature	-20°C ~ +70°C
RH operating range	0 - 95% relative humidity (non-condensing environment)
Power supply	DC 12 V
Power consumption	<10 W

##### Mechanical

Installation	Tabletop or ceiling-mounting
Dimensions (h x w x d)	170 x 260 x 163 mm
Color	Gray (PANTONE Cool Gray 11C)

#### Ordering Information

HCS-3316HDN\_G ..... HD Videoconference Camera (gray)

## HCS-3316ZJ Tripod



### Features

- Used for mounting HCS-3316HDB and HCS-3316HDN camera
- Max. adjustable height: 1.4 m
- Weight: 2.6 kg

### Ordering Information

HCS-3316ZJ ..... Tripod (for HCS-3316HDB and  
HCS-3316HDN camera)

## HCS-3316CK Camera Control Keypad



### Features

- Working with HD video conferencing camera HCS-3316HDB and HCS-3316HDN, and compatible with a variety of professional cameras, such as, SONY, VBLOSSOM, Polycom, CISCO, etc.
- Preset 6-16 image functions, such as, doom position, lens position, white balance, mirror, frozen, etc.
- LCD with backlight, to display information and tips
- Control interface: six axis control lever, 28 function keys with backlight
- Control protocols: VISCA, PELCO-P, PELCO-D

### Technical Specifications

#### Electrical

Power supply	DC 12 V/1 A
Power consumption	2.7 W
Control protocol	PELCO-P, PELCO-P, VISCA
Connectors:	
Camera control	RS232, RS485
DVR control	RJ45 (RS485)
Computer control	USB2.0

#### Mechanical

Installation	Tabletop or ceiling-mounting
Dimensions (h x w x d)	155 x 355 x 150 mm
Weight	1.5 kg (excl. power adapter) 1.9 kg (with power adapter)

### Ordering Information

HCS-3316CK ..... Camera Control Keypad  
(for TMX-xxxxSDI2 Series  
HD Video Tracking Matrix  
Switcher)