

# Collab HDV

## HD VIDEO CONFERENCE CAMERA



### Full HD, Wide View Angle, Multiple Video Interfaces. Multiple protocols.

The Collab HDV camera offers perfect functions, superior performance and rich interfaces. The features include advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video fluent and clear even under less than ideal bandwidth conditions.

#### ■ Superb High-definition Image

Collab HDV employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920×1080 with frame rate up to 60fps.

#### ■ Various Optical Zoom Lens

Collab HDV has 20X optical zoom lens with 72.5 ° wide view angle without distortion.

#### ■ Leading Auto Focus Technology

Leading auto focus algorithm makes the lens a fast, accurate and stable auto-focusing.

#### ■ Low Noise and High SNR

Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.

#### ■ Wide-range, Quiet and Quick Pan/Tilt Mechanism

By adopting step driving motor mechanism, the camera works extremely quiet and moves smoothly.

#### ■ Multiple Audio/Video compression

Support H.264/H.265 video compression; AAC, MP3 and PCM audio compression; Support compression of resolution up to 1920×1080 with frame up to 60fps and 2 channel 1920x1080p with 30fps compression.

#### ■ Multiple Network Protocol

Support NDI (additional option), ONVIF, RTSP, RTMP protocols and support RTMP push mode, easy to link streaming media server (Wowza, FMS)

#### ■ Wide Application

Tele-education, lecture capture, Webcasting, Video conferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.

#### ■ Low-power sleep function

Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.

# Collab HDV

## TECHNICAL SPECIFICATION

Camera Parameters	
Optical Zoom	up to 20 X Zoom f=55.7 ~ 110mm
Aperture	f = 55.7 F2.8±5%
Image Sensor	1/2.8 inch HD CMOS Sensor
Effective Pixels	16: 9 2.07 megapixel
Video Format	<p><b>ST video format :</b> 1080P60/50/30/25/59.94/29.97; 1080i60/50/59.94; 720P60/50/30/25/59.94/29.97</p> <p><b>U3.0 interface video format</b>  <b>1) USB3.0:</b> 1920X1080P60/ 50/ 30/ 25; 1280X720P60/50/30/25; 960X540P30; 640X360P30; 640X480P30; 352X288P30; 960X540P30  <b>2) USB3.0 compatible with USB2.0:</b> 960X540P30; 640X360P30; 1280X720P10/15; 720X576P50; 720X480P60; 640X480P30; 352X288P30.</p>
View Angle	3.3°(tele)-54.7°(wide)
AV	F1.8 ~ F2.4
Digital Zoom	10X
Min. Illumination	0.5Lux (1.8, AGC ON)
DNR	2D & 3D DNR
White Balance	Auto / Manual/ One Push/ 3000K/4000K/5000K/6500K
Focus/Aperture	Auto/Manual/One Push
Iris	Auto/Manual
Shutter	Auto/Manual
BLC	ON/OFF
WDR	OFF/ Dynamic level adjustment
Video Adjustment	Brightness Colour, Saturation, Contrast, Sharpness, B/W mode
SNR	>50dB

PTZ Parameters	
Pan Rotation	±170°
Tilt Rotation	-30° ~ +90°
Pan Control Speed	0.1 -100°/sec
Tilt Control Speed	0.1-45°/sec
Preset Speed	Pan: 100°/sec,Tilt: 45°/sec
Preset Number	255 presets (10 presets by remote controller)

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Input/Output Interface	
Video Interfaces	Collab HDV20 - ST Model: 3G-SDI, DVI(HDMI), LAN,RS232 (IN/OUT), RS485, A-IN Collab HDV20-U3 Model: USB3.0,DVI(HDMI), LAN,RS232(IN) Collab HDV20-U2U3 Model: USB3.0, USB2.0, HDMI, LAN, RS232(IN), A-IN
Image Code Stream	Dual stream output
Video Compression Format	H.264, H.265
Control Signal Interface	RS-232 Ring through RS232 output
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 115200/9600/4800/2400bps
Audio Input	Double track 3.5mm linear input
Audio Compression Format	AAC/MP3/PCM Audio compression
Network Protocol	RTSP/RTMP,ONVIF,GB/T28181, NDI (Additional option)
Power Interface	HEC3800 outlet (DC12V)

Other Parameters	
Supply Adapter	AC110V-AC220V to DC12V/1.5A
Input Voltage	DC12V ± 10%
Input Current	1A(Max)
Consumption	12W (Max)
Store Temperature	-10°C ~ +50°C
Store Humidity	20% - 95%
Working Temperature	-10°C ~ +50°C
Working Humidity	20% - 80%
Dimension	258mm x 172mm x 168mm
Weight	1.6 KG
Remote Operation	Remote Upgrade,Reboot and Reset
Accessories	power supply, RS232 control cable, remote controller, manual, warranty card, bracket(optional)



**Use Any Computer Conferencing App**  
Collab cameras makes applications like Zoom Video Conference, as well as Microsoft Lync, Skype, and GoToMeeting, come alive with realistic full HD wide-angle video quality. Plug it directly into our Collab LaunchPad Display with built-in Collab Core or other PC with USB 3.0, without a separate capture device.

