

Video Conference Solution

FULL HD CMOS Censor – 30FPS Video System



HTVC 444 is plug & play device and with Interactive Display, Speaker Audio soundbar and PTZ camera, it is ideal for video/virtual conferencing solution.

hugo
TECHNO

Model: HTVC-444

Product Specifications:

Model: HTVC-444

Interactive Display	
Display size (Diagonal)	86 inches
Technology	IPS DLED Backlight
Display colour	8 bit-16 million colours
Aspect Ratio	16:9
Resolution	3840 x 2160
Brightness	600 cd/m ²
Contrast Ratio	5000:1
Built In Speakers	2.1 Stereo Sound with in-built 20-Watt x 2 speakers and 15 Watt x 1 Sub-Woofer
Camera Port	Dedicated USB Based Camera Port
Camera Plate	Camera Plate on top for screw-in web cam installation
Viewing Angle	Horizontal 178 degrees, Vertical 178 degrees
Touch Feature	IR Recognition, 7 H hardness, scratch resistant, anti-glare, anti-crack resistant
Touch Resolution	32767 x 32767
Touch Points	20 Points
Writing Points	10 Points with automatically detect pen diameter (8mm & 2mm) and write simultaneously with different colors and thicknesses.
Pen Recognition	Dual Pen recognition with 2mm tipped pens at real-time lag free response rate.
Split Screen	4 Way Split Screen content sharing software
Touch on/Off	Function available
Touch Response Time	15 ms
Input Ports	HDMI x 3, Audio x 1, RGB/VGA x 1, CVBS (AV) x 1, PC slot x 1, RS232x1
Output Ports	HDMI x 1, Audio (Earphone out) x 1, Coax x 1, SPDIF x1, RS232 x1
USB Ports	USB 3.0 Type A x 2, USB 2.0 Type A x 4, USB 2.0 Type B for Touch x 2
Communication port	RJ45 x 1 Giga LAN Port
OS Support/Embedded Player	Windows 10/ Windows 8/ Windows 7/Linux/Mac/Android Embedded Player CPU Inbuilt.
Stylus/Pen Holder	Inbuilt magnetic mechanism to hold up to two numbers of Stylus/Pen on Frame/ Structure
Networking	DHCP (Auto identification) and Static IP supported
Power Supply	230V AC +/- 10%, 50 Hz
Power Consumption	155 Watt
Accessories	AC Power cord, User Manual, Remote control, USB interface cable, Two Stylus, Wall mount bracket

Android	
Android Version	7
CPU	ARM Dual Core Cortex A73 1.2 GHz
Memory	2 GB
Storage	16 GB

Mini PC	
Form Factor	2 Ltr
CPU	Intel Core i3 (8th Gen processor) with 2.30 Ghz Base frequency
Memory	4 GB RAM
Storage	1 TB

Wi-Fi	Inbuilt Wi-Fi / Wireless LAN Card
Ports	HDMI x 1, Display Port x 2, USB ports x 6, LAN Port x 1
Operating System	Windows 10
Accessories	Wireless keyboard and Wireless optical mouse

USB Microphone- Omni Directional	
Connectivity	Wireless
Battery Life	15 Hours
Inbuilt Speakers	5W x 2
Inbuilt Microphone	Available
Microphone Range	10 Mtr.
Operating System	Android
Wireless communication Technology	Bluetooth (Bluetooth connection to Mobile devices, headset and PC.)

Software Features	
Annotation	Normal Pen, Smart Brush, Tool Pen, Writing Pen, Emphasize Pen, Brush pen, Bamboo Pen, Pen, Highlighter, Pencil and Texture, Different sizes available with Region eraser, Shapes, Stamp, Text, Generic consist of (shapes, Arrows, National Map, National Flag), Desktop Annotation. Annotation of on video, PPT, PDF. Annotate on PC/ Laptop with the help of smart phone
Education	Education Consist of Physics, chemistry, Biology, Geography, sports, arts and lab apparatus subjects. Education practical's feels like original (Maths, Physics, chemistry, Geography), Different types of exercise books, Google for Education partner, multiple numbers of images available like maps, agricultural, animals and many more
Other features	Search Light, Screen Curtain, Magic layer, turn table, explorer, screenshot, magnifier, calculator, soft keyboard, Timer, Geometry Tools, Screen recording, webcam, Screen Lock, White board, Green Board, Black Board, customization board, cloud storage, cloud download, select & remove blank pages, can import & export documents/ contents, software features, artificial intelligence pen, embedded chrome browser, Youtube Drag & Drop, compatible with iwb, enb, txt, pdf, ppt, doc, mp3, mp4 formats, inbuilt animation libraries, Follow me AI, Complete Ecosystem om mobile, web & PC, Casting in & Casting out from Remote locations via browser, Android & iOS Apps, option to save directly to Google Drive and One Drive, Data from Mini PC can be shared wirelessly on multiple Phones/Tablets without any other hardware requirement. IFPD allow user to share/ mirror the content of Laptop/Desktop (Mac, Windows) and mobile device (iOS, Android) wirelessly, Wireless presentation allow user to access their Laptop/Desktop through IFPD, in built quiz tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging), in built Zoom Video Conferencing app as an integral part of IFPD, file download feature in smart phone just by scanning the QR code, USB based PTZ cameras allowing Software based Video Conferencing, Mirroring Capabilities deliver group discussion and spatial arrangement flexibility by allowing content to be mirrored on to two IFPD's simultaneously

Video Conferencing End Point – (Full HD)	
Type of Camera	PTZ (CMOS Sensor)
Camera Positioning System	10 Presets
Video Features	PiP (Picture in Picture), PoP (Picture outside Picture)
Video Conferencing System Resolution	1080p 60fps
Optical Zoom	20x

Focus Arrangement	Manual/Automatic
Brightness Adjustment	Manual/Automatic
White Balance	Manual/Automatic
Content Video Resolution	Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, XGA+(1400x1050), 1600x900, 1600x1200, 1680x1050, 1080p(1920x1080) Coding/Decoding Resolution: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080 Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
Built-in-HD Camera	Supports auto white balance, auto exposure, auto focus Support remote camera control, Support mirror/flip Input: 1080P, Sensor: 2.07 million effective pixels, 1/2.7 inch CMOS, Horizontal viewing angle: 72.5 degrees (Maximum), PTZ: horizontal +/-170 degrees, vertical -30~+90 degrees
Video Standards and Protocols	H.264, H.261, H.263, H.263+, H.263++
Audio Standards and Protocols	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.723.1, G.726, SILK
Dual Stream	ITU-T H.239, BFCP
Other Standards	H.221, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF
Network Standards and Protocols	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP, RTMP
Audio Features	AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), ANS (Acoustic Noise Suppression), Lip synchronization
Network	FEC (Forward Error Correction), ARQ (Automatic Repeat-reQuest) etc.
Security	H.235 (AES) Signal and media stream encryption, Administrator password, SSH/HTTPS
Firewall Traversal	H.460.18/19, H.460.23/24, ICE
Bandwidth IP	64kbps ~ 8Mbps
Audio Input	RCA line-in jack x 2, XLR mic-in jack x 2, HDMI x 1, Rj45 x 1 digital mic in
Audio Output	RCA line-out jack x 2, HDMI audio output x 2
Video Input	HDML x 1, DVI-I x 1, (HDMI VGA/YpPr), 3G-SDI x 1
Video Output	HDMI x 2, 3G-SDI x 1
Communication Interface	RS232 In x 1 :RJ 45
USB Interface	USB2.0 x 2 Host (support USB flash disk, USB microphone etc.)
Ethernet Port	RJ45 x 1
Approval and Compliance	1000 local address book, LDAP/Network address book, H.350
Streaming and Recording	Streaming and USB Based Recording
Secure Connection	AES-256 Encryption
Codec	Dual Codec 1080p @ 60 fps
Wireless Connectivity	Wireless Connectivity using Wifi
Multi Device compatibility	Multi device compatibility i.e. Laptop, Tab, Mobile
Simultaneous Connection	1+6 End points simultaneously
Additional Features	Web based Conference management, Built in VPN, Network address book, Remote Upgrade by network, Automatic to get static NAT address, PIP: 1/16 Picture size, Optional Position, Split output: Bi-Screen and tri-screen display, Audio associated with presentation, Asymmetric bandwidth, Incoming call Password, "same View", Timing power on and power off, Automatic standby and wake up on incoming call, DNS SRV, Support SDK API, Built -in MCU, USB microphone
Working voltage	AC 100V ~ 240V, DC 12V
Working frequency	50/60Hz
Power consumption	65W Max

Operating humidity	10% to 80%
Operating temperature	-10 deg. Celsius to 40 deg. Celsius
Non-Operating temperature	-40 deg. to -70 deg. Celsius
Non-Operating humidity	0% to 95% (non-condensing)

Video Conferencing Camera - Primary	
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning mode	Progressive
Video System	HD:1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p /60, 720p/50
Video	H.265/H.264/MJPEG
Frame Rate	50Hz: 1fps~25fps,60Hz: 1fps~30fps
Video Bit Rate	32Kbps ~ 2048 Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Video Stream Resolution	1920 x 1080, 1280 x 720, 1024 x 576
Sub Stream Resolution	720 x 576, 720 x 480, 320 x 240
Lens	F3.5mm~42.3mm, f1.8~ f2.8
Horizontal Angle of View	73 degrees ~7 degrees
Vertical Angle of View	45 degrees ~4 degrees
Horizontal Rotation Range	±170 degrees
Vertical Rotation Range	- 30 degrees ~ +90 degrees
No. of Presets	255
Preset Accuracy	0.10
Minimal	0.5 Lux @ (F1.8, AGC ON)
Optical Zoom	12x
Digital Zoom	16x
HD Output	HDMI x 1 (Version 1.3), 3G-SDI x 1 (BNC type), 800mVp-p,75Ω, Along to SMPTE 424 M Standard
SD Output	CVBS x 1 (3.5mm mini jack, 1Vp-p, 75Ω)
Communication Interface	RS232 in x 1: 8pin Min DIN, Max Distance: 30m, Protocol :VISCA/ Pelco-D/Pelco-P, RS232 Out x 1 (8pin Min DIN, Max Distance:30m, Protocol VISCA network use only), RS485 x 1 (2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P)
USB	USB 2.0 x 1 (Type A female jack)
Network Interface	RJ45 x 1 (10M/100M Ethernet Interface)
Audio Interface	1-ch (3.5mm Audio Interface, Line In)
Shutter	1/30s~1/10000s
Pen Speed Range	1.7 degrees ~ 100 degrees per second
Tilt Speed Range	1.7 degrees ~ 70 degrees Per second
Video S/N	≥55 dB
White Balance	Auto, Indoor, Outdoor, One-Push, Manual
Support Protocol	TCP/ IP , HTTP, RTSP, RTMP,Onvif, DHCP, Multicast, etc.
Audio Bit Rate	96Kbps, 128Kbps, 256kbps
Power Jack	JEITA type (DC IN 12V)
Power	12W (Max)
Input Voltage	DC12 V
Currant Consumption	1.0A (max)

Storage temperature	-400C ~ 600C
Special Features	High SNR of CMOS sensor, clean and clear picture even under low illumination conditions, Image Freeze, Back Light Compensation, 2D&3D Digital Noise Reduction, H&V Flip, Local Storage, AAC Audio, Supports AAC audio encoding, better sound quality and small Bandwidth, Supports local storage module, directly record to local USB flash disk, All the parameters of the camera can be remote controlled by the high speed Communications

Video Conferencing Camera - Secondary	
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning mode	Progressive
Minimal Illumination	0.5 Lux @ (F1.8,AGC ON)
Lens	f3.5mm~42.3mm, F1.8 ~F2.8
Video System	1080P, 720P, 540P, 480P, 360P, 240P
Video Format	YUY2 (BULK): max to 1080P@60fps YUY2 (ISOC) : max to 1080P@30fps H.264 AVC : max to 1080P@60fps, H.264 SVC: max to 1080P@30fps MJPEG: max to 1080P@30fps
Colour System / Compression	YUV 4:2:2 / H.264 /MJPEG
Optical Zoom	12x
Digital Zoom	16x
USB Interface	USB3.0 x 1 (Type B female jack)
Audio Interface	ch: 3.5mm Audio Interface. Line In
Communication Interface	RS232 x 1 (8pin Min DIN, Max Distance: 30m, Protocol: VISCA/ Pelco-D/ Pelco-P), 1xRS232 Out: Spin Min DIN, Max Distance: 30m, Protocol VISCA network use only, 1xRS485: Share with RS232 out Max Distance 1200m, Protocol : VISCA/Pelco-D/Pelco-P
USB Video Communication Protocol	UVC 1.5
Horizontal Angle of View	73 degrees ~7 degrees
Vertical Angle of View	45 degrees ~4 degrees
Horizontal Rotation Range	±170 degree
Vertical Rotation Range	-25 degrees ~ +25 degree
Pan Speed Range	1.7 degrees ~ 100 degrees per second
Tilt Speed Range	0.7 degrees ~ 28 degrees per second
No. of Presets	255
Preset Accuracy	0.1°
Shutter	1/30s~1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR (2500K - 8000 K)
Video S/N	≥55dB
O/S Support	Windows 7,Windows 8,Windows 10, Mac OS X, Linux, Android
Power jack	JEITA type(DC IN I2V)
Input Voltage	DC 12V
Current Consumption	1.0A(MAX)
Operating Temperature	-10°C~40°C
Storage Temperature	-40°C- 50°C
Power Consumption	12W (MAX)
Special Features	High sensitivity and low base noise Built in Microphone (5 mtr range), UVC PTZ, Video Tracking support, Built in Microphone (6m distance of pickup), Backlight Compensation, Image freeze, 2D&3D Digital Noise Reduction, H/V Flip, Audio on USB, Support AAC audio encoding, better sound quality and Smaller bandwidth, High SNR of CMOS sensor (clean

	and clear picture even under low illumination conditions), all parameters of the camera can be remote controlled by the high-speed communications
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Hugo Techno is a progressive company, trusted throughout the world because of our commitment to customer satisfaction, environmental conservation individuality and teamwork. We are confident of our collective skills and meet challenges with innovation and creative solutions