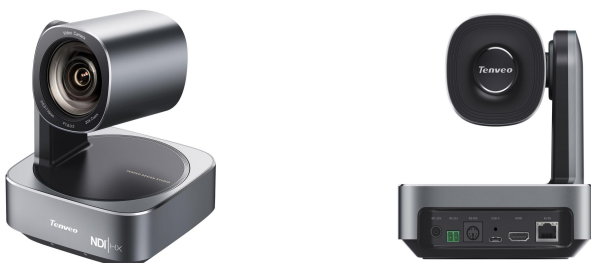


Model No.	VL12U (5589)	VL12V (V1020)	VL10N	VL20N	VL12N	VL11H	VL20H
Picture							
Image Sensor	Sony IMX415 1/2.8" CMOS	Sony IMX415 1/2.8" CMOS	Sony IMX327 1/2.8" CMOS			1/2.8"SONY CMOS	
Effective Pixels	8.29MP, 16:9	8.29MP, 16:9	2.07MP			2.38 mega pixel	
Video Format	HDMI(4KP@30/25fps,1080P@60/50/30/25fps,720P@60/50/30/25fps); USB3.0(3840*2160P@30fps,2560*1440P@30fps,1920*1080P@30fps,1280*720P@30fps,640*480P@30fps,320*240P@30fps;YUY2/NV12/H.264/H.265/MJPG)	HDMI(4KP@30/25fps,1080P@60/50/30/25fps,720P@60/50/30/25fps); USB3.0(3840*2160P@30fps,2560*1440P@30fps,1920*1080P@30fps,1280*720P@30fps,640*480P@30fps,320*240P@30fps;YUY2/NV12/H.264/H.265/MJPG)	1080p@60/50/30/25fps, 720p@60/50/30/25fps,640*480P@30fps,320*240P@30fps;YUY2/NV12/H.264/H.265/MJPG)			1080p@60/50/30/25fps, 720p@60/50/30/25fps	
Optical Zoom	12x zoom	12x optical zoom	10x optical zoom	20x optical zoom	12x optical zoom	10x optical zoom	20x optical zoom
Lens	f=3.9~46.8mm	F1.8-2.68	F1.76~F3.0	F1.6-3.5	F1.8-2.68	F1.8-2.6	F1.8-3.9
Aperture	F1.6~F2.8	f=4.1-49.2mm	f=4.32-40.9mm	f=5.5-110mm	f=4.1-49.2mm	f=5.76-46.09mm	f=5.9-94.4mm
Horizontal Angle	70.82°(W)-6.48°(T)	70.28°(W)-6.57°(T)	67.5°(W)-8.8°(T)	55.8°(W)-3.2°(T)	70.28°(W)-6.57°(T)	54.7°(W)-6.8°(T)	52.1°(W)-3.4°(T)
Vertical Angle	47.72°(W)-73.66°(T)	42.06°(W)-3.76°(T)	40.2°(W)-4.3°(T)	32.2°(W)-1.8°(T)	42.06°(W)-3.76°(T)	30.8°(W)-3.8°(T)	29.3°(W)-1.9°(T)
Diagonal Angle	78.58°(W)-7.42°(T)	78.36°(W)-7.5°(T)	75.4°(W)-8.8°(T)	61°(W)-3.64°(T)	78.36°(W)-7.5°(T)	62.8°(W)-7.8°(T)	59.8°(W)-3.9°(T)
Backlight Compensation	Support						
SNR	>50dB						
Focus	Auto / Manual						
Digital Noise Reduction	2D & 3D Noise Reduction						
Exposure	Auto / Manual						
I / O Interface							
Video Interfaces	HDMI, USB3.0 C, RJ45					HDMI, USB3.0 C	
Video Compression Format	H.264, H.265, MJPG, YUY2					H.264, H.265, MJPG, YUY2	
LAN	10M/100M adaptive Ethernet port; Support POE IEEE802.3af					/	
Network Protocol	NDI HX2,RTSP, RTMP, ONVIF, GB28181; Support VISCA Over IP					/	
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 38400/9600/4800/2400					VISCA/Pelco-D/Pelco-P; Baud Rate:	
Control Interface	RS232 (input only), RS485, USB3.0 C(UVC1.1), RJ45					RS232 (input only), RS485, USB3.0 C(UVC1.1)	
PTZ Parameter							
Pan/Tilt Rotation	±175°, -90°~+90°						
Pan Control Speed	0.1 -80°/sec						
Tilt Control Speed	0.1 -60°/sec						
Preset Number	User can set up to 255 presets (10 presets by IR remote)						
General Parameter							
Operation Systems	Windows 7, Windows 8.1, Windows 10, Windows 11; Android, Mac OS™ 10.10 or higher, Linux (Required to support UVC.)						
Input Voltage	DC 12V						
Input Current	2.0A (Max.)						
Power Consumption	13W (Max.)						
Store Temperature	-10℃~+60℃						
Store Humidity	20%~90%						
Working Temperature	-10℃~+50℃						
Working Humidity	20%~80%						
Dimension (W*H*D)	171.6*192.6*171.6mm/ 260*217*197mm (before/ after packing)						
N.W. / G.W.	1.35kg/ 2.05kg (Net/ Gross weight)						
Accessory	1 x Camera; 1 x USB Cable; 1 x Power Adapter; 1x IR remote control; 1 x Wall Mount; 1 x Manual						
Mfg. Warranty	3 Years standard Parts & Labor warranty						