

Dante AV-H[™] PTZ Camera



Once Again Dante AV-H[™] PTZ Camera Joins Bolin's Dante AV[™] Solution Family

Dante AV[™]-H PTZ Camera

Bolin was in a unique position to be among the very first to create Dante AV-H[™] PTZ cameras. Dante AV-H[™] is a software-based solution, it offers lower cost and network bandwidth requirements, with many of the core features of Dante AV[™]. These include compatibility with Dante Controller, up to eight channels of Dante audio, and Interoperability with AV-over-IP products from multiple vendors.



Just like Bolin's Dante AV Ultra[™] line of products, theses cameras are designed to seamlessly integrate into an existing Dante audio ecosystem. The D2-210H/ D2-220H PTZ camera is managed using Dante Controller Software, providing flexible, independent audio and Dante AV[™] video routing across your network. Dante AV-H[™] video can be sent to Dante Studio[™] (Dante Video RX/TX and Viewer) for applications like live studio, video production, video conferencing and educational cases.

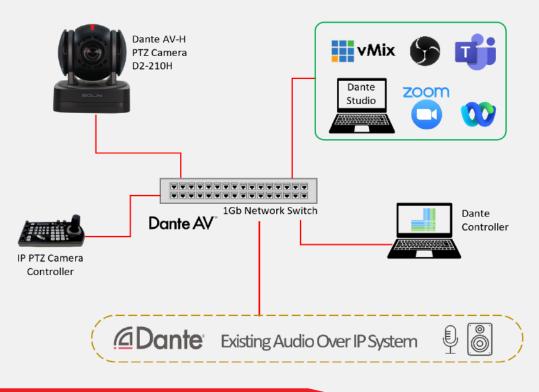
Dante AV-Ultra[™] vs Dante AV-H[™]

- <u>Ultra</u>
 High Quality
- Extremely Low Latency
- Perfectly Timed Audio and Video
- A Light-Weight Codec
 Lower Bandwidth
 Low cost
 H

VS

Dante Ecosystem Friendly

- Instant compatibility with over 3000 existing Dante-enabled products.
- Unified control of camera audio and video using familiar tools Dante Controller and Dante Domain Manager (DDM)
- No need to replace network infrastructure. Dante AV[™] works with already installed, cost-effective 1Gbps network gear.
- Use for Dante ecosystem applications: House of Worship, Video Conferencing, Video Production, Education.



D2-210H FHD PTZ Camera 10X

D2-220H FHD PTZ Camera 20X



OVERVIEW

Meet Dante AV Software Environment

Bolin's Dante AV-H[™] IP PTZ camera enhances your PC's capabilities and extends the functionality of software applications with Dante Studio. Dante Video RX[™], Dante Video TX [™], and Dante Video Viewer[™] provide system designers, integrators and end users with a completely networkable AV workflow.

Seamlessly integrate with Dante Ecosystem

Audinate's latest software–based Dante AV-H[™] codec integrates seamlessly into the Dante audio and video over IP ecosystem, using a standard 1 Gbps network. Video integration into the Dante ecosystem just got more economical, and easier with software applications.

Multicast Mode

Point to Multipoint and Point to Point Distribution – supports both unicast and multicast video distribution.

High Quality Imaging - Full HD

Bolin's Dante AV-H[™] PTZ cameras are equipped with Sony senor to provide brilliant, high-quality images in 1080p60 resolutions with 10x and 20x optical zoom.

Video Resolution

Two models are available: D2-210H with 10X optical zoom range with a wide horizontal angle of view, and D2-220H with 20X optical long–range zoom capability. Both cameras support up to Full HD 1920x1080p, 60/59.94 image resolutions.

Video Output

Deliver Dante AV-H[™] version IP streaming video to the Dante network, and local HDMI video and USB streaming output to conventional workflows in FHD. D2-220H also provides 3G-SDI, lossless baseband video for live production use.

AI Featured Smart Focus and Exposure

Built with Bolin's latest AI-powered face analytical engine which enables precise smart focus and smart exposure to bring customer a greater level of user experience and effective image quality improvement in a complex user invironment.

KEY FEATURES

D2-210H



D2-220H

Color Matrix

- Convenient access to image Color Matrix via WebUI
 Easy adjustments to Gain and Hue for RGBCMY
- you can easily make subtle and specific corrections to the colors in your camera's image.

Video Settings

Image parameter adjustments include exposure, focus, iris, shutter speed, white balance, gamma, wide dynamic range, E-flip/mirror and more with configurable video settings.

PTZ Movement

Extremely quiet and smooth operation for Pan/Tilt movements combined with enhanced adaptive, variable, and super slow speed control provides accurate and effective operation experiences. Picture Profile Preset: Image parameter settings restored with presets and quick access operation.

Remote Control and Setup PTZ Camera

Bolin's Dante AV-H[™] PTŻ cameras support serial RS422, Dante AV[™] Serial over IP control if a Dante AV Ultra[™] encoder is used, and Visca over IP control via Dante AV[™] network. Remotely control pan, tilt, zoom movements with full access to camera's image parameter settings via keyboard controller or IR controller.

Audio

HDMI/SDI/USB embedded high-quality audio and Dante AV™ video streaming embedded audio with support for Mic-in and Line-in audio input. The audio that is input to the camera can be routed within a Dante audio over IP system.

Ease of Installation and Use

Simply connect one network cable from camera to any stand ethernet network/POE device to access to existing Dante Audio-Over-IP system.

Always Up to Date

Free firmware updates, upgrade via IP interface to keep DanteAV camera features and performance up to date and even for customized function upgrades.

SPECIFICATIONS

Model No.	D2-210H	D2-220H
Product Name	Dante AV-H PTZ Camera	Dante AV-H PTZ Camera
Camera Image Sensor	10X Full HD	20X Full HD OS image sensor 1/2.8 type
Number of effective pixels	1920X1080, 2.13 MP	1920X1080, 2.13 MP
Zoom	Optical Zoom 10X, Digital Zoom 16X	Optical Zoom 20X, Digital Zoom 16X
Focal Length	f= 4.34 mm (Wide) to 35.17 mm (Tele)	f= 5.2 mm (Wide) to 104 mm (Tele)
Aperture	F1.85 (Wide) to F2.63 (Tele)	F1.6 (Wide) to F3.0 (Tele)
Horizontal Angle of View	68.8 °(W)~8.8° (T)	55.8° (W)~3.2° (T)
Vertical Angle of View	39.5° (W)~5.1° (T)	-
Min. object distance	10mm (Wide)	
Min. Illumination Shutter Speed	0.5lux(color), 0.1lux(black) 1/25~1/100K sec	
Focus	Auto, Manual, One Push	
White Balance	Auto, Indoor, Outdoor, OPW, ATW, Manual, SVL USER	
Exposure	Auto, Manual, Shutter/Iris priority	
Image Adjustment	Brightness, Color(Saturation), Contrast, Sharpness, HUE	
Back Light Compensation	On/Off	
E-Flip		/Off
WDR	Or	/Off
Image Stabilizer	V	-
Defog Mirror	Yes Horizontal	
Day/Night	On/Off	
Contrast	Yes	
Color Gain	Yes	
Color Hue	Yes	
Color Matrix	Yes	
Black Level		-
Gamma	Yes, 4 levels (0.45, 0.50, 0.55, 0.63)	
High Sensitivity Scene	Yes Default, Clear, Bright, Soft	
Focus Zone	Face Priority, All Area, Upper Area, Central Area, Lower Area	
Al Face Detection Focus	Yes	
AI Face Auto Exposure	Yes	
Noise Reduction	2D/3D, 0-100	
S/N Ratio		Odb
OSD	Edi	table
HDMI Signal System Video Format - HDMI	1020x1080n;60/50 04/50/30/20 07	7/25: 1280x720m;60/50 94/50/30/25
Color Format	1920x1080p:60/59.94/50/30/29.97/25; 1280x720p:60/59.94/50/30/25 8bit(RGB), 12bit(YUV422),	
Color Space	YUV, RGB	
OSD Menu Display	YES	
SDI Signal System		
SDI Video Format	-	1080p:60/59.94/50/30/29.97/25; 720p:60/59.94/50/30/25
Color Precision	-	8bit(SDI), YCbCr, 4:2:2
Color Space	-	YUV 3G-SDI, SMPTE424M/SMPTE292M,TE 425-A(3Gb/s), with
Standard	-	SMPTE352 SDI Metadata Supported SDI and HDMI has same video format when HDMI outputs FHD and
True Dual Output	-	lower.
OSD Menu Display	-	YES
USB Signal System		
USB Port),Type C
		PEG/YUV2
USB Video Format Compatible Integration		s ,1280X720p60/50/30/25fps , UAC
Video Conference		
Compatibility	Most video conference	e platform in the market
Network-IP Streaming		
Dante AV	Dante AV-H Licensed Software Module	
Dante Eco-Friendly	Instant Dante Ecosystem compatibility with Dante Studio, Dante AV RX software tools.Unified control of audio and video using Dante tools - Dante Controller and DDM (Dante Domain Manager)	
Video Codec	MJPEG, AVC/HEVC-H.264/265	
Network Interface	RJ45 port-Standard 1Gbps Ethernet	
IP Video - 1st Stream	1920×1080p60/59.94/50/30/29.97/25fps ,1280X720p60/59.94/50/30/25fps	
IP Video - 2nd Stream	704x576, 640x480, 640x360, 576x480, 352x228; Frame Rate P30/25 Video resolution and framerate: IP and HDMI can be output with different format	
True Dual Output	(SDI and HDMI will be the same, SDI is the same or lower than HDMI, USB is the same as IP)	
IP Protocols	TCP/IP, ICMP, ARP, RTP, UDP, HTTP, DNS, DHCP, FTP, NTP	
Application Protocols Video Streaming	RTP, RTSP, RTMP,RTMPS, SRT Unicast or Multicast	
Audio Compression	AAC-LC, Broadband Audio Encoding	
Multi-stream	2 Streams (Up to 8 vie	•

SPECIFICATIONS

Model No.	D2-210H	D2-220H	
Product Name	Dante AV-H PTZ Camera	Dante AV-H PTZ Camera	
Camera	10X Full HD	20X Full HD	
Network-IP Streaming			
Compatible Integration	ONVIF2.4 (Profile S), VISCA Over IP, Dante AV-H		
DSD	Customized QSD		
Browser Support	Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari		
atency - Codec			
Bandwidth			
Danuwiulii	1Mbps - 100Mbps Results may vary depending on network configuration and management settings.		
	Results may vary depending on network	configuration and management settings.	
nterface			
IDMI Video Output	HDMI 1.4X1 Type A		
P Video Stream	Up to 1080p60		
SDI Video Output	-	3G-SDI, standard / 75 Ω (BNC x 1)	
Camera Control Interface	RJ45X1-RS422, RJ45X1-IP Control, IR Remote Control		
Control Protocol	VISCA. VISCA Over IP, Pelco P/D, Onvif		
AN Port	RJ45X1 (1000BASE-T Ethernet port)		
JSB Port	USB2.0,Type C		
JSB Protocol	UVC, UAC		
Synchronization			
Fally Light	Internal synchronization Tally lamp in front, Red and Green Color		
	Camera bottom panel: 8 PIN x 2		
Dip Switch	Camera bottom		
Firmware Upgrade			
D 10		system MCU and Encoder	
RID		R controller, total 3	
Power Connector Type	DC12V (IEC60130-10 (JEITA	, ,	
	INPUT: RJ45, P	oE(IEEE802.3af)	
Audio Input	MIC/LINE input, 3.5mm audio jack	USB port to 3.5mm audio jack	
	AAC (Bit Rate(bps)48K*/64k / 96K /	128k; Sampling Rate(bps)44.1k / 48k	
Audio Output	-	USB port to 3.5mm audio jack-(Not Activated)	
Audio Output	Embedded with HDMI, SDI, IP, USB streaming, 24bit Stereo, sample rate: 44.1KHz, 48KHz, PCM24		
Audio S/N Ratio			
Audio THD+N			
	≤0.05% ≤-90dB		
Audio Noise (RMS)	2-9	UdB	
Mechanical			
Pan Movement	Horizontal:±170 degrees continuous pan (Zoom Adaptive Speed Range: 0.05° ∽100°/S)		
Tilt Movement	Vertical:+90 degrees to -30 degrees (Zoom Adaptive Speed Range: $0.05^{\circ} \sim 70^{\circ}$ /S)		
Speed Proportional	Pan/Tilt Speed proportional to zoom range		
Preset Position	255 positions, Speed 100°/s, Accuracy: 0.05° 9 presets on remote controller		
Preset Speed	0~5 Level Adjustable		
Dragat Mamany	YES, (Picture Profile Preset-Preset Memory for image parameters, like: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto		
Preset Memory	Exposure, Bright, Iris, Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)		
Votionless Preset	· - · ·	/Off	
PTZ Trace Memory	Yes, 4 (Supported via IP interface)		
Cruise	Yes. 12		
Adaptive PT	Zoom range adaptive Pan/Tilt speed		
Pan/Tilt Direction			
	Normal, Invert NC35 or less		
Quietness			
Home Position	•	pport	
Invironmental	Inc	loor	
General			
Body	Partial Mag	nesium Alloy	
Nount	Ceiling mount, W	/all mount, Tripod	
Size of Tripod Screw Hole	1/4"-20UNC with safety joint		
Operating Temperature	55.8° (W)~3.2° (T)		
Operating Humidity	<pre><80% Suitable for Use</pre>		
Power Input	DC±12V, PoE (IEEE802.3 af Type 1 Calss 3)		
Power Consumption	Min:10W(Static state with no movement); Max:13W(Fully loaded operation)		
Dimension			
	143x143x161mm (LxWxH)		
Neight	1.5kg (Net weight)		
	Bl	ack	
•			
Accessory			
Accessory	12VDC 2A X1, University	sal various power core.	
Body Color Accessory Power Supply Remote Controller		sal various power core. R Controller X1	

ORDER INFORMATION

Visit Bolin Technology Website

ACCESSORIES



VCC-RC-2 IR Remote Controller



C-WM1B Wall Mount Bracket-Optional

DIMENSIONS





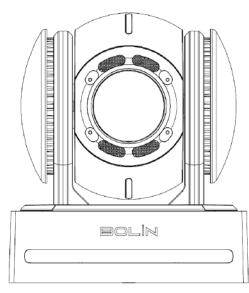
VCC-P12-2 12VDC 2A Power Adapter

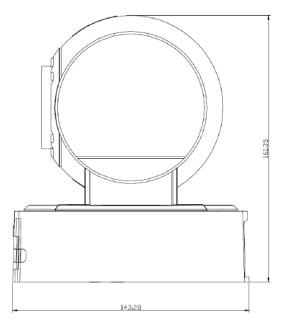


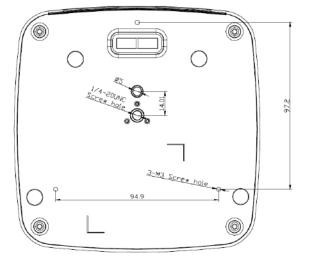
VCC-CC45RS RJ45 To RS232/RS422/485 Adapter

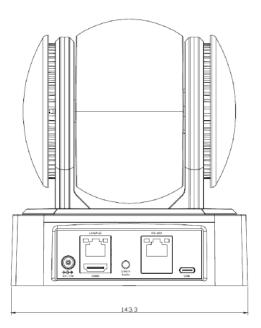


VCC-CM Ceiling Mount Bracket-Optional









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