BOLİN

Dante AV-H™ PTZ Camera



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-HTM PTZ cameras. Dante AV-HTM is a software-based solution, it offers lower cost and network bandwidth requirements, with many of the core features of Dante AVTM. These include compatibility with Dante Controller, up to eight channels of Dante audio, and Interoperability with AV-over-IP products from multiple vendors.

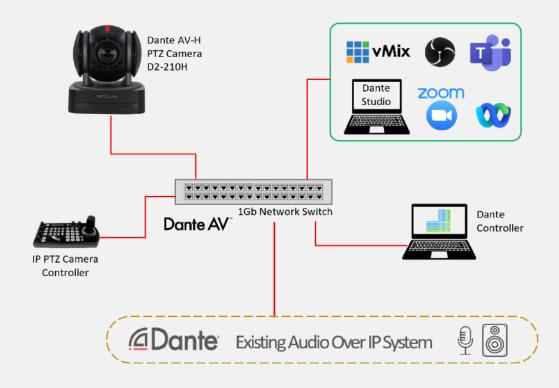


Just like Bolin's Dante AV Ultra™ line of products, theses cameras are designed to seamlessly integrate into an existing Dante audio ecosystem. The D2-210H/D2-220H PTZ camera is managed using Dante Controller Software, providing flexible, independent audio and Dante AV™ video routing across your network. 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 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.

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.

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.

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.

D2-210H



D2-220H



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™ PTZ 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.

Multicast Mode

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

Additional Daul IP Streaming and Viewing Capability
In addition to Dante AV-H™ IP video streaming, both D2-210H and D2-220H camera pro-vide silmultanious extra IP RTSP video streaming for remote viewing and controlling via browsers. It supports RTMP for live streaming as well.

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	10X, FHD-1080P60	20X, FHD-1080P60	
Image Sensor	Sony Progressive scan CMOS image sensor 1/2.8 type		
Number of effective pixels	• •	2.13 Megapixels	
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	39.5 (W)~5.1 (1)		
Min. Illumination		, 0.1lux (black)	
Shutter Speed			
Focus	1/1 sec to 1/10000 sec (22 steps) Auto, Manual, One Push		
White Balance	• • • •		
	Auto, Indoor, Outdoor, OPW, ATW, Manual		
Exposure	Auto, Manual, Shutter /Iris /Brightness priority		
Image Adjustment	Brightness, Color(Saturation), Contrast, Sharpness, HUE		
Back Light Compensation	On/Off		
E-Flip	On/Off		
WDR	On/Off		
Mirror	Horizontal On/Off		
Day/Night	On/Off		
Contrast	Yes		
Color Gain	Yes		
Color Hue	Yes		
Color Matrix	Yes		
Gamma	Yes, 0-4		
High Sensitivity	Yes		
Sence	Default, Clear, Bright, Soft		
Focus Zone	Face Priority, All Area, Uper Area, Central Area, Lower Area		
Al Face Detection Focus	Yes		
Al Face Auto Exposure	Yes		
Noise Reduction	2D/3D, 1-255		
S/N Ratio	≥50db		
OSD	Editable		
HDMI Signal System			
Video Format - HDMI 1.4	1920x1080p:60/59.94/50/30/29.97/25; 1280x720p:60/59.94/50/30/25		
Color Format	8bit(HDMI), YCbCr		
Color Space			
OSD Menu Display	YUV, RGB YES (English, Chinese, Spanish, German, French, Russian)		
On-Screen Title	TEO (English, Oliniese, Opani	-	
SDI Signal System		1080p:60/59.94/50/30/29.97/25; 720p:60/59.94/50/30/25	
SDI Video Format	<u>-</u>	· · · · · · · · · · · · · · · · · · ·	
Color Precision	-	8bit(SDI), YCbCr, 4:2:2 YUV	
Color Space	<u>-</u>		
Standard	-	3G-SDI, SMPTE424/SMPTE292,TE 425-A(3Gb/s) standard /	
T 51011		Ω (BNC x 1), With SMPTE352 SDI Metadata Supported	
True Dule Output	<u>-</u>	IP and SDI signal can be output with different format	
OSD Menu Display	-	YES	
On-Screen Title	·	•	
USB Signal System	LI 264/M	IDEC(VIAVO	
Encoder	H.264/MJPEG/YUV2		
USB Video Format	1920×1080p60/50/30/25fps ,1280X720p60/50/30/25fps		
Video Conference	Most video conference platform in the market		
Compatibility		·	
Network-DanteAV			
Dante AV	•	Licensed Software Module	
Network Interface		Gbps Ethernet	
Video Codec	·	.264 codec by SoC	
Video Transport Format	Dante Video over IP		
Dante AV IP Video Format	1920x1080,1280x720; F	Frame Rate: P60/50/30/25	
Video Streaming	Unicast or Multicast		
True Dual Output	IP and HDMI signal can be output with different format		
Latency - Codec	<280ms	at 1080p60	
Bandwidth	4-8Mbps at 1080p60		
	Results may vary depending on network configuration and management settings.		
Control Protocol	Visca serial control over IP(Visca RS422), Visca-Over-IP		
HDCP		·	
Dante Eco-Friendly	Instant Dante Ecosystem compatibility with	h Dante Studio, Dante AV RX software tools.	
,		- Dante Controller and DDM (Dante Domain Manager)	
Network-Secondary IP		23 23 (Banko Bonani Managor)	
Video Codec	M.IPEG AVC/HEV	C-H.264/265 by SoC	
Network Interface	Shared with Dante AV RJ45 port-Standard 1Gbps Ethernet		
IP Video - 1st Stream	1920x1080,1280x720; Frame Rate: P60/50/30/25		
	704x576, 640x480, 640x360, 576x480, 352x228, 320x240, 320x180; P60/50/30/25; Frame Rate P60/50/30/25		
IP Video - 2nd Stream			
True Dual Output	IP and HDMI signal can be output with different format		
IP Protocols	TCP/IP, ICMP, ARP, RTP, SIP, UDP, HTTP, HTTPS, DNS, DHCP, FTP, NTP		
Application Protocols	RTP, RTSP, RTMP,RTMPS, SRT		
Multi-stream	2 Streams (Up to 20 viewers at the same time)		
Audio Compression	AAC-LC,G.711,G.726 Broadband Audio Encoding		
Compatible Integration	ONVIF2.4 (Profile S, Profile G, Profile T), VISCA Over IP		
OSD	Customized OSD		
Browser Support	, , ,	Microsoft Edge, Google Chrome, Firefox, and Safari	
	<2F0ma	<250ms at 1080p60	
Latency - Codec		·	
Latency - Codec Bandwidth		at 1080p60	

SPECIFICATIONS

Model No.	D2-210H	D2-220H
Camera	10X, FHD-1080P60	20X, FHD-1080P60
Interface		
HDMI Video Output	HDMI 1.4X1 Type A	
IP Video Stream	Up to 1080p60	
SDI Video Output	-	3G-SDI, SMPTE424/SMPTE292,TE 425-A(3Gb/s) standard / 75 Ω (BNC x 1), With SMPTE352 SDI Metadata Supported
Camera Control Interface	RJ45X1-RS422, RJ45X1-IP Control, IR Remote Control	
Control Protocol	VISCA. VISCA Over IP, Pelco P/D	
LAN Port	RJ45X1 (1000BASE-T Ethernet port)	
USB Port	USB2.0,Type C	
USB Protocol	UVC, UAC	
Synchronization	Internal synchronization	
Tally Light	Tally lamp in front, Red and Green Color	
Dip Switch		panel: 8 PIN x 2
Firmware Upgrade	Dante AV system upgrade via IP (Dante Firmware Update Manager) HEVC IP stream system upgrade via IP	
	Upgrade via IP for camera system MCU and Encoder	
IR ID	ID selector for IR controller, total 3	
Power Connector Type	DC12V (IEC60130-10 (JEITA standard RC-5320A) TYPE4) INPUT: RJ45, PoE+ (IEEE802.3at)	
	MIC/LINE input, 3.5mm audio jack	USB port to 3.5mm audio jack
Audio Input	G.711a (Bit Rate(bps)64	28K; Sampling Rate(bps)16K/32K/44.1K/48K) IK; Sampling Rate(bps)8K)
G.711u (Bit Rate(bps)32K/40K/48K/64K/96K/128K; Sampling Rate(bps)16K/32K/44		
Audio Output	-	USB port to 3.5mm audio jack-
Audio Output		ing, 24bit Stereo, sample rate: 44k1 to 192k, PCM24
Audio S/N Ratio	-	5dB
Audio THD+N		05% 00dB
Audio Noise (RMS) Mechanical	<u> </u>	900B
Pan Movement	Horizontal:+170 degrees continuous pan (7)	oom Adaptive Speed Range: 0.05°∽100°/S)
Tilt Movement		nom Adaptive Speed Range: 0.05° \sigma 50°/S)
Speed Proportional		ortional to zoom range
Preset Position		cy: 0.05° 6 presets on remote controller
Preset Speed	·	I Adjustable
Preset Memory	YES, (Picture Profile Preset-Preset Memory for image parameters, like: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Exposure, Bright, Iris, Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)	
Motionless Preset	Or	n/Off
PTZ Trace Memory	Yes, 4 (Supporte	ed via IP interface)
Cruise	Yes,4	
Adaptive PT	Zoom range adap	otive Pan/Tilt speed
Pan/Tilt Direction	Norma	ıl, Invert
Quietness	NC35	or less
Home Position	Sup	pport
Environmental	Inc	door
General		
Body		nesium alloy
Mount	g ,	Vall mount, Trypot with safety joint
Size of Tripod Screw Hole		* * * * * * * * * * * * * * * * * * * *
Operating Temperature Operating Humidity), 32 to 130 (°F) able for Use
Power Input		tibable with IEEE802.3at)
Power Consumption	Min: 10W(Static state with no movement	,
Heat Dissipation	, the state of the	
Dimension	143x143x16	1mm (LxWxH)
Weight	1.5kg (Net weight)	
Gross Weight (Approximate)		-
Packing Dimension (Approximate)	-	
Body Color	Black	/White
Accessory		
Power Supply	·	sal various power core.
Remote Controller		R Controller X1
Serial Control Adaptor	RS232/RS422 adapter cable x1 For serial RS232/422 control	

ORDER INFORMATION

• D2-210H (FHD, 10X Zoom)

• D2-220H (FHD, 20X Zoom)







VCC-CC45RS RJ45 To RS232/RS422/485 Adapter



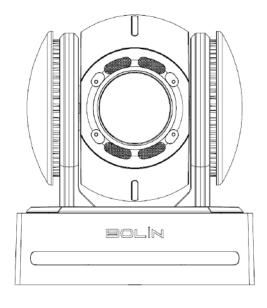
VCC-WM Wall Mount Bracket-Optional

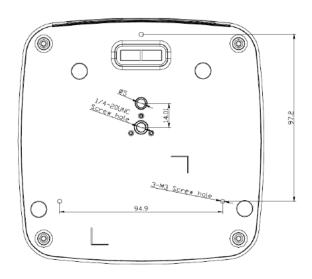


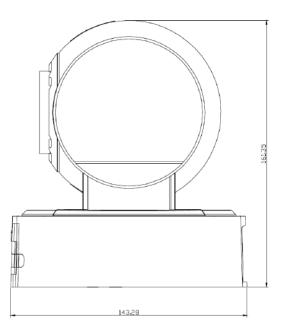
VCC-CM Ceiling Mount Bracket-Optional

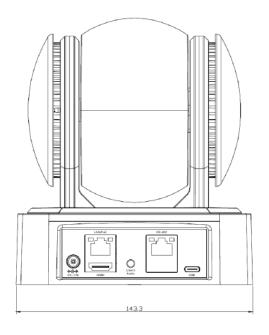
DIMENSIONS

Unit: mm









All models and specifications are subject to change without notice.
All brand names and registered trademarks are the property of their respective owners.