

Dante AV Ultra™ Encoder / Decoder

Advanced Auto Source Switching Feature



- Transport up to 4K HDR UHD video sources with imperceptible subframe latency over 1GbE Network.
- ProAV-optimized Colibri codec to correctly encode any graphical content while preserving a visually lossless quality for video.
- Utilizing a single network clock enables perfect audio and video synchronization.
- The DAV-02HT features USB-C and HDMI input ports with manual or automated source selection.
- Source selection from select button or sensor Input connecting external-tailored press button.
- Locking Feature for Select Button.
- The DAV-02HR features dual HDMI output ports.
- Advanced signal management for independent routing of audio, video, USB / KVM and RS-422.
- A fanless design guarantees stable performance with minimal maintenance required.
- Auto-downscaling and HDCP revision conversion on HDMI output ports.
- HDCP 1.x/2.x compliant with advanced EDID management.
- PoE+ (IEEE802.3at) or DC (12V) power to power the device.
- Universal 2U EIA Shelf Unit with 4 x Horizontal Blade Shelves.
- AES67 Compatibility
- Compatible with Dante Controller, Dante Director, Dante Domain Manager, and Dante Studio



Dante AV Ultra Encoder DAV-02HT

Encode USB-C & HDMI to Dante AV Ultra Colibri

- Up to 4K Ultra HD 60p 4:4:4
- HDR 10 & HLG
- USB-C/HDMI input with manual or automated source selection
- Sensor input for external press button connection
- 1GbE PoE IP
- USB HID and RS-422 (VISCA)



Dante AV Ultra Decoder DAV-02HR

Decode Dante AV Ultra Colibri to HDMI

- Up to 4K Ultra HD 60p 4:4:4
- HDR 10 & HLG
- Simultaneous 2 x HDMI out
- Auto-Downscaling and HDCP conversion
- 1GbE PoE IP
- USB HID and RS-422 (VISCA)



■ Optional Accessories

Universal 2U EIA Shelf Unit

DAV-02RU4 - Mount Kit for Quad Unit Placement

- EIA 19-inch
- 2U



What is Dante AV

Dante AV is a simplified, scalable and interoperable platform for managing and distributing networked audio & video signals everywhere.

Adaption of ProAV-optimized Colibri codec

In the main use case of ProAV, preserving high quality of complex graphical content poses a significant challenge. The new Colibri codec has been specially designed to bridge this gap, providing seamless distribution and delivery of high-quality complex graphical content for 4K60 over 1GbE. The ADTECHNO Dante AV Ultra incorporates this newly optimized video codec to flawlessly encode any graphical content while preserving visually lossless quality for graphical and video content.

* Interoperability requires consistency in the video codec used on both the encoder and decoder.

Manual or automated source selection

Dante AV Ultra encoder, DAV-02HT features inputs for both USB-C and HDMI, allowing for the automatic switching of sources upon detecting an incoming TMDS signal. Users can also manually select sources by pressing a front-panel button or by utilizing a sensor input to connect custom-tailored press button, allowing system integrators to externally wire a press button, suitable for installation on a table.

Dual HDMI Output

Dante AV Ultra Decoder, DAV-02HR supports simultaneous dual output, providing 2 x HDMI video outputs for connecting to multiple screens.



Auto-downscaling and HDCP revision co-nversion

The HDMI ports on The ADTECHNO Dante AV Ultra decoder reads Extended Display Identification Data (EDID) of every connected screen and adjusts the output video resolution automatically to ensure the optimal display resolution for each screen. Additionally, HDCP is automatically converted to the appropriate revision for each connected screen.

Perfect Synchronization of Audio and Video

Dante AV Ultra employs a single clock to synchronize seamlessly with one another over the network using the IEEE 1588 Precision Time Protocol (PTP), delivering sub-microsecond synchronization.

Imperceptible subframe latency

Dante AV Ultra streams and transport video and audio content with highest performance and lowest latency - 4K60 with 8ms or less latency

A fanless design guarantees stable performance with minimal maintenance required

Emphasizing stability and efficiency, the DAV-02 series boasts a fanless design that ensures silent operation, greater reliability, and superior energy efficiency. This design significantly reduces maintenance needs while prolonging the lifespan of the devices.

The largest AV over IP technology ecosystem

Compatible with over 4,000 existing Dante products available on the market. Controlling video, audio and control signals has never been easier with the familiar Dante Controller Software. Installing ADTECHNO Dante AV Ultra onto an existing 1GbE network infrastructure is straightforward, without encountering management difficulties and performance issue.



50,000+
certified users

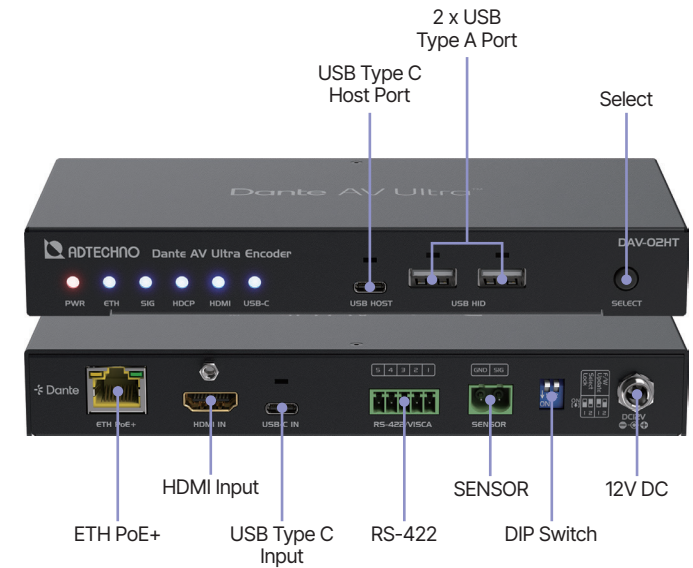


4,000+
products

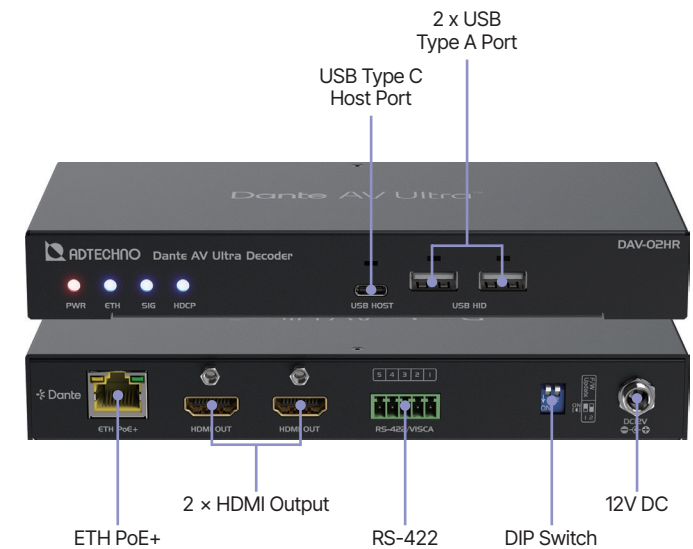


600+
manufacturers

Connections



DAV-02HT



DAV-02HR

Specifications

Model No.		DAV-02HT	DAV-02HR
Audio/Video Input	HDMI	1 × HDMI Type A (*1)	-
	USB-C (DP alt mode)	1 × USB Type C	-
	LAN	-	1 × RJ-45 with PoE+ -1GbE
Audio/Video Output	HDMI	-	1 × HDMI Type A (*1)
	USB-C	-	-
	LAN	1 × RJ-45 with PoE+ -1GbE	-
Other I/O	USB/KVM	1 × Type C Host, 2 × Type A HID	
	RS-422	1 × 5-Pin Phoenix Connector	-
	Sensor	1 × 2-Pin Phoenix connector	-
Dimensions		180 (W) × 80 (D) × 22 (H) mm *protrusions not included	
Weight		Approx 520g	
Power		PoE 802.3at or 12V DC (AC adapter optional)	
Power Consumption		11.3W (*2)	7.6W (*2)
Operating Temperature		0 to 40 °C (32 to 104 °F)	
Storage Temperature		-40 to 60 °C (-40 to 140 °F)	
Operating Humidity		10 – 90% *noncondensing	
Box Content		2 × Ear Bracket / 1 × Quick User Guide	
Warranty		1 year	
Regulatory Compliance		FCC / CE / UKCA / RoHS	

*1) HDCP 1.x/2.x, CEC pass through *2) max load incl. USB HID

Formats

HDMI Video Input Format (DAV-02HT)		HDMI Video Output Format (DAV-02HR)
4096 × 2160p	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60
3840 × 2160	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60
2560 × 1600	60	60
2048 × 1080p	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60	-
1920 × 1200p	60	60
1920 × 1080p	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60	23.98/ 24/ 25/ 29.97/ 30/ 50/ 59.94/ 60
1600 × 1200	60	60
1280 × 1024	60	-
1280 × 720p	50/ 59.94/ 60	50/ 59.94/ 60
1080i	50/ 59.94/ 60	50/ 59.94/ 60
1024 × 768	60	60
576i	50	50
480i	60	60

*YCbCr 4:4:4/ 4:2:2/ 4:2:0 *4:2:0 limited to 3840 × 2160@50/59.94/60 *RGB *8/ 10/ 12-bit *3840×2160 limited to 8-bit



The latest information and the detailed product specifications are available at www.ad-techno.com/en/

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