

Yealink EN300 Datasheet

AV over IP Encoder



The EN300 is a high-performance AV over IP encoder designed for professional applications requiring top-tier audio and video quality. With 1Gbps Ethernet and advanced low-compression encoding, it delivers stunning, lossless 4K@60Hz video with 4:4:4 chroma sampling and ultra-low latency.

Equipped with multiple HDMI ports, full-featured USB-C with laptop charging, and RS232/IR for display control, the EN300 is built to handle even the most demanding AV needs. Its scalable design enables secure, seamless AV signal distribution across multiple endpoints, making it the ultimate solution for professional AV environments.

Key Features and Benefits

4K@60Hz 4:4:4 with ultra-low latency transmission

Experience stunning 4K@60Hz 4:4:4 video quality with Yealink EN300, delivering flawless, lossless video with minimal latency—less than one frame delay—ensuring your content always stays sharp and true to its original resolution.

Native Dante AV-A, Flexible Dante Ready

Built for seamless interoperability, this device offers native support for the Dante AV-A protocol, ensuring effortless integration with Dante-enabled audio and video systems. With the added advantage of Dante Ready, it enables on-demand activation of Dante features, providing unmatched flexibility and scalability.

Multiple Sources Auto Switching

The Yealink EN300 features multiple audio and video input ports, including HDMI and USB Type-C. It enables rapid negotiation between input devices, allowing users to seamlessly switch between audio and video sources for a smoother, more efficient experience.

High-performance USB Type-C cable

The EN300's USB Type-C cable enables 4K content sharing and wired BYOD/BYOM connectivity, while also delivering up to 45W PD for laptop charging. A single cable fulfills all user needs in meeting rooms for seamless efficiency.

Network-Enabled BYOD/BYOM Experience

Seamlessly receive camera and audio stream data directly from the network, empowering BYOM (Bring Your Own Meeting) functionality for a superior, personalized user experience.

Multiple USB Connectivity for Local and Remote Control

The EN300 features multiple USB interfaces, offering seamless local control switching with KVM devices like keyboards and mouse, while also enabling efficient remote device control through advanced USB over IP technology.

Gigabit Ethernet

Yealink AVoIP series products are designed for Gigabit networks, enabling easy device connectivity for seamless communication, enhancing system scalability, and supporting long-distance data transmission.

HDCP 2.3

The Yealink AVoIP Series fully supports the HDCP 2.3 standard, allowing secure transmission of encrypted UHD content.

Easy Deployment with Plug and Play

By connecting the encoder and decoder within the same local area network, the devices will automatically identify and pair, enabling plug-and-play functionality for seamless audio and video transmission.

Specifications

Encoding

Parameter	Description
Video Resolution	Up to 4K@60Hz
Chroma sampling	4:4:4
Color Depth	8-bit
Bit Rate	Below 1Gbps

Latency	Less than one frame
Copy Protection	HDCP2.3
Advanced	HDR

Video

Parameter	Description
Input	1 input from HDMI or USB-C input
Output	<ul style="list-style-type: none"> • 1 IP output • 1 HDMI loop output
Dante	Support (Dante Ready activation)

Audio

Parameter	Description
Input	1 digital input, de-embedded from HDMI or USB-C input
Output	<ul style="list-style-type: none"> • 1 IP output • 1 HDMI loop output • 1 stereo analog audio output (balanced or unbalanced)
Audio Format	LPCM multi-channel, AES67, Dante (Dante Ready activation)

Communication

Parameter	Description
Network	<ul style="list-style-type: none"> • Protocol: Multicast, DHCP, IPv4, HTTPS • Transmission Distance: 100 meters / 330 feet over CAT5e and above
USB	USB 2.0 Type-C for computer management
RS232	Bi-directional control, supports up to 115200 baud
IR	Out carrier frequency: 34kHz to 42kHz

Power Supply

Parameter	Description
-----------	-------------

Power Consumption	<ul style="list-style-type: none"> • Average: 11W (with reverse charging 65W) • Peak: 11.5W (with reverse charging 65.5W) • Standby: 4.5W
Power Adapter	DC 19V/4.74A
PoE	PoE+, 802.3at, class 4
USB-A Output	5V/0.5A

Installation

Parameter	Description
Installation Method	<ul style="list-style-type: none"> • Rack installation • Under-desk installation • Desktop placement

Hardware Interface

Parameter	Description
Hardware Interface	<ul style="list-style-type: none"> • 1 × Full-featured USB Type-C (Supports reverse power supply to laptop, 60W) • 1 × HDMI out (Supports CEC) • 2 × HDMI input • 2 × USB 3.0 Type-B • 1 × USB 3.0 Type A • 1 × Audio Out • 1 × RS232 (each pin for TX, RX, and ground) • 1 × IR Out (each pin for TX and ground) • 1 × MGMT port • 1 × PoE port • 1 × Power supply (19V/4.74A)

Other Information

Parameter	Description
Package	<ul style="list-style-type: none"> • 1 × EN300

	<ul style="list-style-type: none"> • 1 × 1.8 m HDMI Cable • 1 × 1.8 m Full-Featured USB Type-C Cable • 1 × 2.5 m USB 3.0 Type-B to Type-A Cable • 2 × 5-Pin Male Phoenix Connectors (for analog audio and control) • 1 × Power Adapter (19V / 4.74A) • 1 × Mounting Kit (for wall, flat surface, or rack installation). Includes mounting ears, rack connection piece screws, and 3M tape. • 6 × Cable Locker • 1 × Quick start guide
Environmental Factors	<ul style="list-style-type: none"> • Operating humidity: 10 - 95% • Operating temperature: -10 - +45°C • Storage temperature: -30 - 70°C
Dimensions and Weight (W×D×H)	<ul style="list-style-type: none"> • Giftbox size: 259 × 193 × 124 mm • Carton size: 635 × 265 × 209 mm • Dimensions: 216 × 160 × 36 mm • G.W/CTN: 12.172 kg • N.W/CTN: 11.458 kg • Weight: 1.24 kg • Quantity/carton: 5 pcs