

# Yealink DE300 Datasheet

## AV over IP Decoder



Engineered for high-performance AV environments, the DE300 utilizes 1Gbps Ethernet to provide stunning 4K@60Hz video with 4:4:4 chroma sampling and ultra-low latency, ensuring a crystal-clear, near-lossless viewing experience. Equipped with HDMI input/output, USB capture, RS232, IR, and multiple USB ports, it offers versatile control and connectivity options. Its scalable architecture ensures seamless, secure AV signal distribution across multiple endpoints, making it the ideal choice for professional AV deployments demanding exceptional performance and reliability.

## 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 DE300, delivering flawless, lossless video with minimal latency—less than one frame delay—ensuring your content always stays sharp and true to its original resolution.

### **USB 3.0 capture for MTR Core streaming**

The Yealink DE300, equipped with a USB 3.0 capture card, enables seamless transmission of high-quality audio and video to a PC for efficient content sharing. In meeting room

environments, it can output audio and video directly to the MTR Core as a secondary stream input, optimizing collaboration and enriching the MTR experience with flawless multimedia integration.

**Seamless 2x2 video matrix switching**

The Yealink DE300's 2x2 video matrix simplifies video link management, offering seamless switching between sources for a more dynamic and versatile AV experience.

**Multiple USB connectivity for local and remote control**

The DE300 features multiple USB interfaces, offering seamless local control with KVM devices like keyboards and mouse, while also enabling efficient remote device control through advanced USB over IP technology.

**Comprehensive display control**

The Yealink DE300 offers intuitive display control through RS232, IR, and CEC, enabling a range of operations including power on/off, volume up/down, and more for TVs and other devices, ensuring a fully integrated and seamless user experience.

**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

**Decoding**

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	<ul style="list-style-type: none"> <li>• 1 HDMI input</li> <li>• 1 IP input</li> </ul>
Output	<ul style="list-style-type: none"> <li>• 1 HDMI output</li> <li>• 1 video capture output</li> </ul>

## Audio

Parameter	Description
Input	<ul style="list-style-type: none"> <li>• 1 digital input, de-embedded from HDMI input</li> <li>• 1 IP input</li> </ul>
Output	<ul style="list-style-type: none"> <li>• 1 HDMI output</li> <li>• 1 video capture output</li> <li>• 1 stereo analog audio output (balanced or unbalanced)</li> </ul>
Audio Format	LPCM multi-channel

## Communication

Parameter	Description
Network	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"> <li>• Average: 8W</li> <li>• Peak: 8.5W</li> <li>• Standby: 5.4W</li> </ul>

Power Adapter	DC 12V/2A
PoE	PoE+, 802.3at, class 4
USB-A Output	5V/0.5A

## Installation

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

## Hardware Interface

Parameter	Description
Hardware Interface	<ul style="list-style-type: none"> <li>• 1 × HDMI in</li> <li>• 1 × HDMI out (supports CEC)</li> <li>• 1 × USB 3.0 Type-B capture output</li> <li>• 1 × USB 3.0 Type-B</li> <li>• 2 × USB 3.0 Type-A</li> <li>• 1 × Audio out</li> <li>• 1 × RS232 (each pin separately for TX, RX, and ground)</li> <li>• 1 × IR Out (each pin separately for TX and ground)</li> <li>• 1 × MGMT port</li> <li>• 1 × PoE port</li> <li>• 1 × power supply (12V/2A)</li> </ul>

## Other Information

Parameter	Description
Package Contents	<ul style="list-style-type: none"> <li>• 1 × DE300</li> <li>• 1 × 1.8 m HDMI Cable</li> <li>• 2 × 2.5 m USB 3.0 Type-B to Type-A Cables</li> <li>• 1 × 1.0 m USB 3.0 Type-C to Type-A Cable (for management port)</li> <li>• 2 × 5-Pin Male Phoenix Connectors (for analog audio and control)</li> </ul>

	<ul style="list-style-type: none"> <li>• 1 × Infrared Emitter (for IR output control)</li> <li>• 1 × Power Adapter (12V / 2A)</li> <li>• 1 × Mounting Kit (for wall, flat surface, or rack installation). Includes mounting ears, rack connection piece, and screws.</li> <li>• 3 × Cable Locker</li> <li>• 1 × Quick start guide</li> </ul>
Environmental Factors	<ul style="list-style-type: none"> <li>• Operating humidity: 10 - 95%</li> <li>• Operating temperature: -10 - +45°C</li> <li>• Storage temperature: -30 - 70°C</li> </ul>
Dimensions and Weight (W×D×H)	<ul style="list-style-type: none"> <li>• Giftbox size: 259×193×124 mm</li> <li>• Carton size: 635×265×209 mm</li> <li>• Dimensions: 216×160×36 mm</li> <li>• G.W/CTN: 9.9 kg</li> <li>• N.W/CTN: 9.178 kg</li> <li>• Weight: 1.24kg</li> <li>• Quantity/carton: 5 pcs</li> </ul>