

**OVP-MT16**

**Play Control processor**

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**Product specification V1.0**

*onbon*

# Updating record

version	date	specification
V1.0	2025-5-15	The first version

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# 1. Instruction

OVP-MT16 play control processor integrates Android system and sending functions, supports 3 inputs, and 16 Gigabit network ports. It is a play control processor launched for multimedia display applications such as office meetings, advertising media, and exhibition halls. It supports multi-terminal program play control: smart play control by mobile phone APP, convenient play control by remote control, remote play control by cloud platform, PC software playback, and U disk playback.

## 2. Features

### Input&Output

- 3 HDMI2.0 inputs;
- 2 USB2.0, 1 USB3.0 input. Can be used for multimedia material playback and function expansion;
- 16 network outputs, one single machine supports 8.29 million pixels, maximum horizontal: 3840 pixels, maximum vertical: 2160 pixels;
- 1 3.5mm audio output;
- Supports display screen output scaling, width range 64 ~ 3840, height range 64 ~ 2160;
- Supports 4K\*2K@60Hz input and output, and well supports multimedia display applications such as office meetings, advertising media, exhibition halls, etc.

### System functions

- Desktop UI system is based on Android 11, which can flexibly add the third-party APP applications;
- Supports multiple screen projection methods and multiple terminals for simultaneous projection, including Windows, Mac OS, iOS, and Android systems, making it more flexible;
- Support whiteboard writing and annotation, making communication smoothly;

- Powerful processing performance;
  - Quad-core A55 ARM processor, main frequency 1.92GHz;
  - Support H.264, H.265 4K@60Hz HD video decoding;
  - Onboard 4GB RAM;
  - Default storage is 32GB.
- Multi-terminal program play control
  - Smart play control via mobile phone APP: You can install LedsuiteAPP on your mobile phone to send and control programs;
  - Convenient remote control: local program control and simple program production can be performed on the display screen;
  - Cloud platform remote play control: programs can be made and released through cloud platform;
  - PC software: You can create and publish programs through LedshowSuit PC software
  - U disk: support stand-alone playing, plug-and-play or copy playing.
- Dual Wi-Fi mode. You can surf the Internet with Wi-Fi and turn on the wireless hotspot at the same time.
- Supports adjusting volume, brightness and other parameters to adapt to different application scenarios.

### **Operation Control**

- Support multi-terminal program play control: APP, IR controller, iLEDCloud, PC software playing, USB disk playing;
- Gigabit Ethernet control port, supporting TCP/IP protocol;
- Support infrared standby wake-up, standby enter to low power consumption mode;
- Supports connection to relays, which is convenient to manage LED display power supply;
- Supports Bluetooth 5.0, and can connect to common peripherals such as Bluetooth voice remote control, Bluetooth mouse, Bluetooth keyboard, Bluetooth speakers, etc.
- Supports connection of common peripherals such as mouse, camera, amplifier, and speaker.

### 3. Panel Instruction

#### Front Panel



Name	Specification
Power switch	Power switch
Infrared receiver	Infrared receiver
LED status indicator light	Red light: light on when the device is turned on, light off after turning on, light on when in standby; Green light: Always on: The device is running normally. Off: Not running
USB2.0	<p>When connecting USB flash drive as an input source, the requirements for USB flash drive and files are as follows:</p> <p><b>U disk file system:</b> supports NTFS, FAT32 and FAT16, does not support exFAT (FAT64), and USB disk cannot be partitioned and used as a system boot disk;</p> <p><b>Supported video formats:</b> AV1,H.265(HEVC),VP9,AVS2,H.264,MPEG1/2,MPEG4,WMV/VC-1,AVS-P16,AVS-P2. Note: When the video file format is AV1, H.265 (HEVC), or VP9, the maximum supported resolution is 8Kx4K@30fps or 4Kx2K@60fps. When the video format is AVS2, the maximum supported resolution is 4Kx2K@60fps. When the video format is H.264 AVC, the maximum supported resolution is 4Kx2K@30fp. The rest of the video file formats support 1920x1080@60fps.</p> <p><b>Supported graphic formats:</b> JPG、JPEG、PNG、BMP、GIF</p> <p><b>U disk play mode:</b> supports video playing, picture playing, video and picture mixed playing.</p>

Back Panel

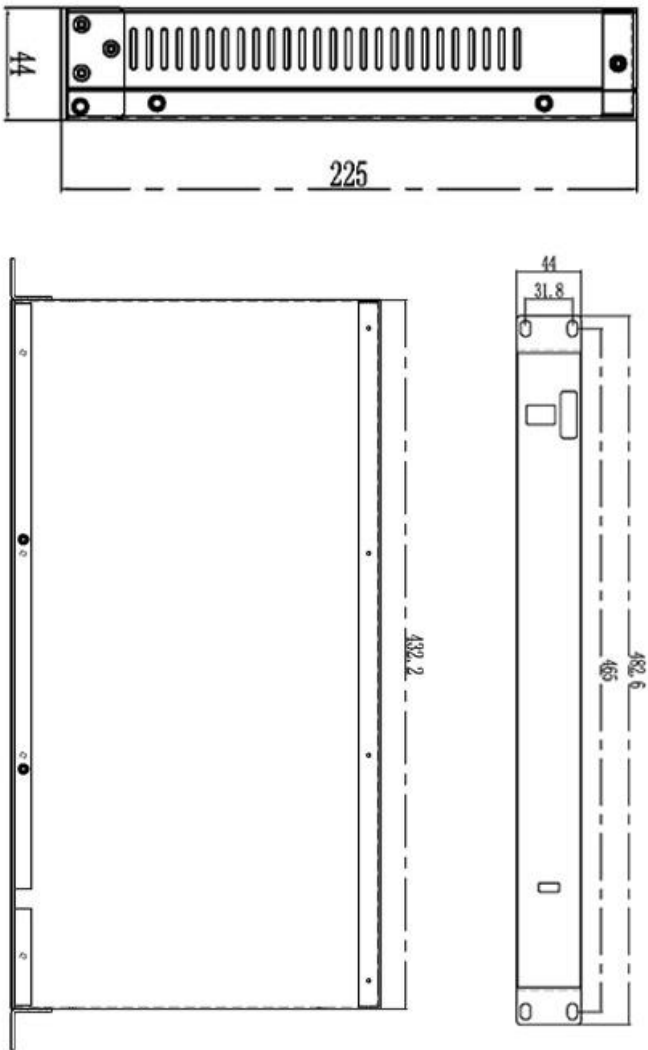


Interface type	Port	说明 Specification
Input port	HDMI2.0 1~3:	3×HDMI 2.0 ◆ Maximum resolution: 3840*2160@60Hz; ◆ Minimum resolution: 800*600@60Hz; ◆ Support custom resolution; ◆ Support 30/50/60Hz; ◆ Support interlaced signal input; ◆ HDCP 1.4~2.3
	USB 2.0×1、 USB 3.0×1	Supports connecting common USB devices such as mouse, keyboard, U disk, etc. <b>U disk file system:</b> support NTFS、FAT32and FAT16, don' t exFAT (FAT64) , also U disk cannot be partitioned and used as a system boot disk; <b>Supported video formats:</b> AV1,H.265(HEVC),VP9,AVS2,H.264,MPEG1/2,MPEG4,WMV/VC-1 ,AVS-P16, AVS-P2. Note: When the video file format is AV1, H.265 (HEVC), or VP9, the maximum supported resolution is 8Kx4K@30fps or 4Kx2K@60fps. When the video format is AVS2, the maximum supported resolution is 4Kx2K@60fps. When the video format is H.264 AVC, the maximum supported resolution is 4Kx2K@30fp. The rest of the video file formats support 1920x1080@60fps. <b>Supported graphic formats:</b> JPG、JPEG、PNG、BMP, GIF <b>U disk play mode:</b> supports video playing, picture playing, video and picture mixed playing.
	AV IN	Video input port
	Gigabit	6 gigabit output port, connect to receiving cards.
Output port	AUDIO OUT	Audio output port
	SPDIF	Optical digital audio output
Control port	LAN	Network communication interface, connecting to external

		network
	I/O terminal	IO1、IO2、IO3、G
	RS232	TX、RX、G
	RS485	A、B、G
Antenna port	WIFI-AP 1~2	Connect WIFI antenna/Bluetooth antenna. (Controller acts as a hotspot, allowing the device to connect to controller WIFI)
	WIFI STA	Connect WIFI antenna. (The controller is connected to external WIFI network)
Power port	100-240V	

4. Dimension

单位: mm





## 5. Application Scenarios

Led screen



### Illustration:

PTB1215 transmitter for high-definition wireless projection is not included in OVP-MT10 play control processor product package, users need to place an order separately.

## 6. Product specifications

Electrical specifications	Input voltage	100-240V~50/60Hz
	Power	≤50W
Storage	running storage	4GB
	storage	32B
Working environment	temperature	-30°C ~ 70°C
	humidity	15%~85%
storage environment	temperature	-40°C ~ 80°C
	humidity	0%RH ~ 95%RH
Specification	dimension	482.6mm×225mm×44mm
	case	1.5U case
	Weight	≤3.5Kg
Software	LedShowsuite	

## 7. Media decoding specifications

### Picture

category	decode	size	format	notes
JPEG	JFIF file format 1.02	16×16 pixels to 4096×2160 pixels	JPG、JPEG	support SRGB JPEG support Adobe RGB JPEG
BMP	BMP	16×16 pixels to 4096×2160 pixels	BMP	N/A
GIF	GIF	16×16 pixels to 4096×2160 pixels	GIF	N/A
PNG	PNG	16×16 pixels to 4096×2160 pixels	PNG	N/A
WEBP	WEBP	16×16 pixels to 4096×2160 pixels	WEBP	N/A

**Video**

category	decode	resolution	max FPS	max bit rate	format	notes
MPEG-1/2	MPEG-1/2	48×48 pixels to 1920×1088 pixels	30fps	80Mbps	MPG、VOB、TS	support Field Coding
MPEG-4	MPEG-4	48×48 pixels to 1920×1088 pixels	30fps	38.4Mbps	AVI、MKV、MP4、MOV、3GP	don' t support MS MPEG4、v1/v2/v3、GMC
H.264/AVC	H.264	48×48 pixels to 4096×2304 pixels	2304p@60fps	80Mbps	AVI、MKV、MP4、MOV、3GP、TS、FLV	support FieldCoding、MBAFF
MVC	H.264 MVC	48×48 pixels to 4096×2304 pixels	2304p@60fps	100Mbps	MKV	Only support StereoHigh Profile
H.265/HEVC	H.265/HEVC	64×64 pixels to 4096×2304 pixels	2304p@60fps	100Mbps	MKV、MP4、MOV、TS	Support MainProfile、Tile& Slice
GOOGLE VP8	VP8	48×48 pixels to 1920×1088 pixels	30fps	38.4Mbps	WEBM、MKV	N/A
GOOGLE VP9	VP9	64×64 pixels to 4096×2304 pixels	60fps	80Mbps	WEBM、MKV	N/A
H.263	H.263	SQCIF(128×96) QCIF(176×144) CIF(352×288) 4CIF(704×576)	30fps	38.4Mbps	3GP、MOV、MP4	Don' t support H.263+
VC-1	VC-1	48×48 pixels to 1920×1088 pixels	30fps	45Mbps	WMV、ASF、TS、MKV、AVI	N/A

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