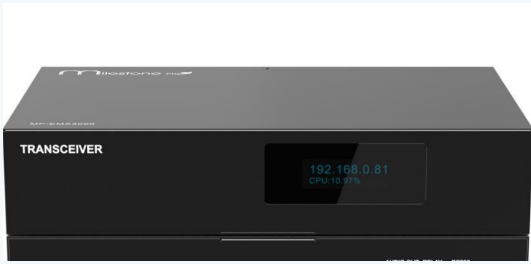


MP-IPM3000

4K Encoding and Decoding Integrated IP Matrix



Integrated IP Matrix Platform

MP-IPM3000 integrates video compression, networking, visualization, centralized control, video splicing, KVM management, audio processing and encoding/decoding in a distributed IP-based architecture.

Designed for conference centers, exhibition halls, command centers and transportation hubs.

Key Features

• Integrated encoder and decoder functions in one unit with DIP-switch mode selection.	• Supports both H.264 and H.265 encoding/decoding protocols.
• HDMI input/output up to 3840×2160@60Hz .	• Multiple control methods: I/O, IR and RS-232 .
• Seamless switching and visualization-based operation.	• Ultra-thin chassis with only 16mm height.
• Multi-channel decoding: up to 4 × 1080p@60Hz , with additional 6-channel modes.	• IP-based matrix/video-wall workflow with centralized client software.

Core Operating Modes

ENCODER MODE	DECODER MODE	CONTROL / VISUALIZATION
HDMI source → H.264/H.265 IP stream via 1G RJ45, with HDMI loopout.	IP stream via 1G RJ45 → HDMI output up to 4K@60Hz; supports multi-channel decoding.	Central client software provides input/output management, mapping, scenes, window layouts and peripheral control.

Package: 1 × MP-IPM3000 • 4 × rubber feet • 4 × 3-pin Phoenix terminal blocks • 1 × user manual.

Management: PC client software supports device scanning, scene management, input/output configuration, window mode and RS-232 command transmission.

Technical Specifications

MP-IPM3000 — Encoder / Decoder Integrated IP Matrix

ENC Mode

Parameter	Specification
Video Input	1 × HDMI IN, Type-A female; up to 3840×2160@60Hz
Digital Audio Input	1 × HDMI IN, Type-A female
Analog Audio Input	1 × 3-pin terminal block
Video Output	1 × RJ45 IP Stream Output + 1 × HDMI Loopout
Encoding Performance	3840×2160@60Hz × 1

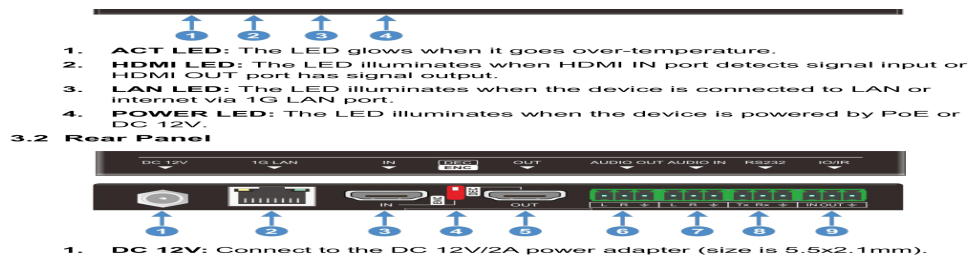
DEC Mode

Parameter	Specification
Video Input	1 × RJ45 (1000Mbps) IP Stream Input
Video Output	1 × HDMI Type-A female; up to 4K@60Hz
Digital Audio Output	1 × HDMI Type-A female
Analog Audio Output	1 × 3-pin terminal block
Decoding Performance	3840×2160@60Hz ×1; 1920×1080@60Hz ×4; 1920×1080@30Hz ×6; D1@30Hz ×6
D1 Resolution	PAL: 720×576 • NTSC: 720×480

General

Parameter	Specification
Control Connector	1 × 3-pin terminal block for I/O or IR; 1 × 3-pin terminal block for RS-232
Codec	H.264, H.265
Communication Protocols	TCP/IP, UDP
Bit Depth	8-bit, 4:2:0
Latency	Less than 150ms
Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +70°C
Relative Humidity	10%–90%
Power	DC 12V/2A or PoE
Power Consumption	10W
Dimensions (W×H×D)	152 × 16 × 104 mm
Net Weight	308 g

Rear Panel / Interfaces



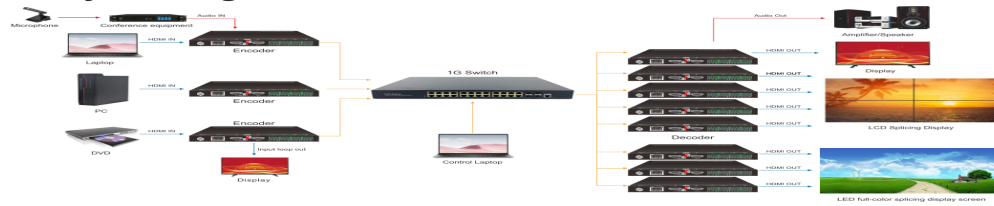
Interfaces include DC 12V, 1G LAN with PoE, HDMI IN, ENC/DEC mode switch, HDMI OUT, Audio OUT, Audio IN, RS-232 and I/O/IR.

System Connection

humidity.

- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before being powered on.

4.2 System Diagram



The supplied system diagram shows multiple encoding sources connected through a 1G network switch to decoder nodes and display endpoints, with centralized control.