



HP2401M 24 in 1 Analog Modulator

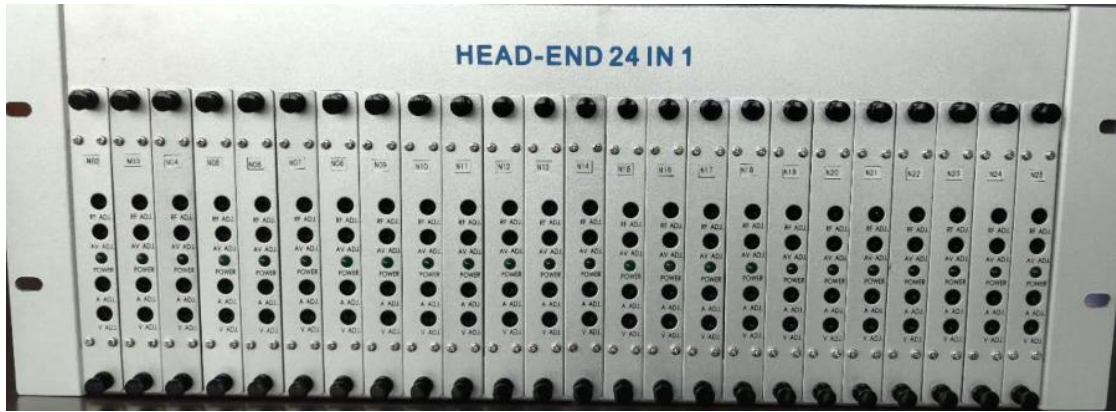
24xHDMI input

24 channels analog fixed frequency via RF output

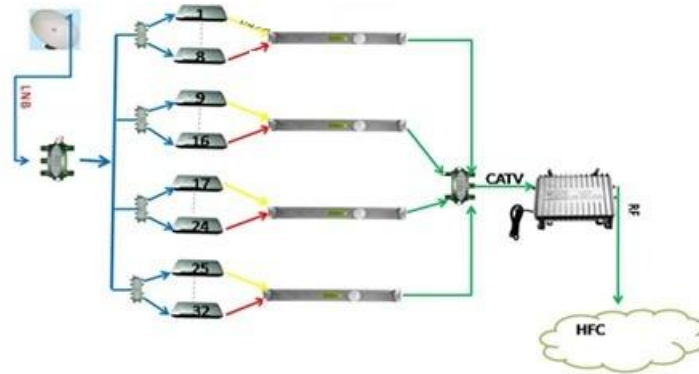


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HP2401M 24 in 1 Analog Modulator is a 24 channels analog fixed frequency modulator. It will be up to 24 channels HDMI (audio and video) signals into a road with 24 TV channels RF signals. The product is widely used in hotels, hospitals, schools, electronic teaching, factories, security monitoring, VOD video on demand and other places of entertainment, especially for digital TV analog conversion, and centralized monitoring system.



Product Features

- Stable and reliable
- M24 of each channel is completely independent, channel configuration flexibility
- Image high frequency and RF local oscillator MCU technique are used, frequency stability and high accuracy
- The function of each integrated circuit chips are used, the whole high reliability
- High-quality power supply, 7x24 hour stability

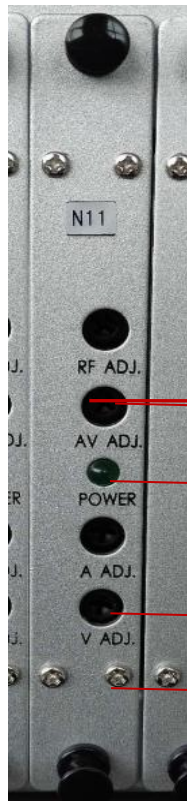
Specification

| | |
|-------------------------|----------------------------------|
| Frequency | 47~862MHz |
| Output Level | $\geq 105\text{dB } \mu\text{V}$ |
| Output Level Adj. Range | 0~-20dB (Adjustable) |
| A/V Ratio | -10dB~-30dB (Adjustable) |
| Output Impedance | 75 Ω |
| Spurious Output | $\geq 60\text{dB}$ |
| Frequency Accuracy | $\leq \pm 10\text{KHz}$ |

| | |
|-----------------------|---|
| Output Return Loss | $\geq 12\text{dB}$ (VHF) ; $\geq 10\text{dB}$ (UHF) |
| Video Input Level | 1.0Vp-p (87.5% Modulation) |
| Input Impedance | 75 Ω |
| Differential Gain | $\leq 5\%$ (87.5% Modulation) |
| Differential Phase | $\leq 5^\circ$ (87.5% Modulation) |
| Group Delay | ≤ 45 ns |
| Visual Flatness | $\pm 1\text{dB}$ |
| Depth Adjust | 0~90% |
| Video S/N | $\geq 55\text{dB}$ |
| Audio Input Level | 1Vp-p ($\pm 50\text{KHz}$) |
| Audio Input Impedance | 600 Ω |
| Audio S/N | $\geq 57\text{dB}$ |
| Audio Pre- emphasis | 50 μ s |
| Rack | 19 Inch standard |

2 Operating Instructions

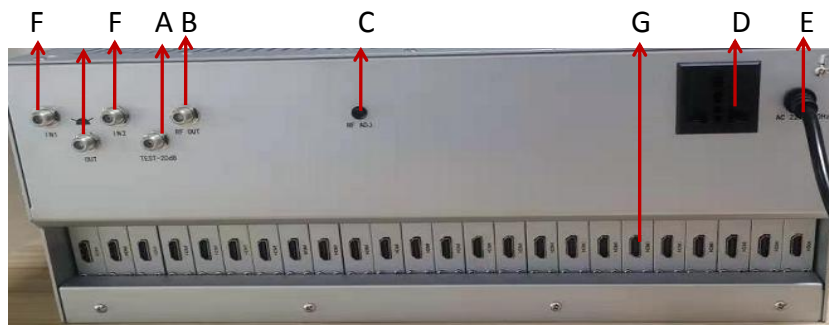
2.1 The front panel



1. RF output level adjustment---Knob, adjustable RF output level
2. AV ratio adjustment---Knob adjusts the output of the A / V ratio
3. volume adjustment---Knob to adjust the output volume size
4. brightness adjustment---Knob to adjust the brightness of the output image

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2.2 Rear Panel



A. Output test port: Video output test port,-20dB;

B. RF output: Multiplexer module modulated, after mixing the RF output;

C. RF output regulation: Knob, adjustable RF output level;

D. Power cascade output

Superposition of multiple modulators, you can cascade output therefrom to other power modulator to reduce power outlet occupation; careful not to cascade more than 5 to avoid excessive current.

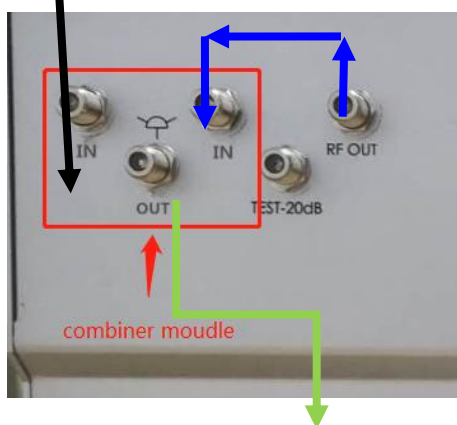
E. Power Input: Power Input: AC 220V 50Hz/110V 60Hz;

F. RF input

G. HDMI input

2.3 How to combine 24 in1 modulator with its extra combiner?

1st UNIT



2nd UNIT

FINAL OUTPUT OF 2 UNITS OF 24 IN 1 MODULATOR TOTAL 48 CHANNELS.