

# Mini 4K 60Hz HDMI Video Test Pattern Generator/Analyzer/Emulator

## EDID Emulator

**Generates four video patterns for setup, calibration, & testing 4Kx2K 60Hz 4:4:4 HDMI displays/components. Simulates the presence of an attached display to a video source.**

- Two modes of operation – HDMI signal generator or display emulator (signal analyzer).
  - Generates four test patterns and features four built-in resolutions.
    - ♦ Resolutions supported: 3840x2160 @60Hz 4:4:4; 3840x2160 @60Hz 4:2:0; 3840x2160 @30Hz 4:4:4; 1920x1080p @60Hz
  - Emulation mode provides EDID to the HDMI source device from the emulator's internal memory.
    - ♦ Supports headless operation – no monitor attached to source.
    - ♦ Use to analyze the HDCP version and signal status (TMDS, 5V) of the video input.
    - ♦ Supports resolutions up to 4Kx2K (4096x2160 and 3840x2160) @60Hz 4:4:4.
- HDCP v1.4 and v2.2 analysis.
- 4-pin DIP switch for setting video resolution and HDCP version.
- LED indicators provide TMDS/5V signal and HDCP status information.
- Portable, compact design.
- Ideal for many applications, including: installer/integrator diagnostic test tool; HDMI source and sink testing; third-party equipment setup; HDCP compliance verification; production testing; R&D design and testing; and remote desktop access to a headless computer.



**MONTEST-HD4K-PTBLC**

The MONTEST-HD4K-PTBLC Mini 4K Ultra-HD Video Test Pattern Generator/Analyzer/Emulator generates video test patterns for evaluating and testing HDMI displays and components up to 4Kx2K @60Hz (4:4:4). HDMI signal status (TMDS/5V) and HDCP analysis are supported, along with EDID emulation.

## Specifications

### Video/Audio

- Male HDMI connectors for input and output.
- HDMI 2.0 (up to 4K@60Hz 4:4:4) compliant.
- HDCP 1.4 and 2.2 compliant.
- Resolutions supported:
  - Signal generator mode: 3840x2160 @60Hz 4:4:4; 3840x2160 @60Hz 4:2:0; 3840x2160 @30Hz 4:4:4; 1920x1080p @60Hz
  - Emulation mode: 4Kx2K resolutions up to 4096x2160 and 3840x2160 @60Hz 4:4:4, HDTV resolutions to 1080p @60Hz, and up to 1920x1200 @60Hz (WUXGA).
- Video bandwidth: 600MHz (18 Gbps)
- Supports embedded digital audio.

### Power

- Signal generator mode: USB powered using micro USB port (5V/1A).
  - 3.4-ft USB Type A to USB Micro-B male-to-male cable included.
- Display emulation mode: Powered by HDMI source.

### Dimensions

- WxDxH (in): 2.95x0.87x0.75 (75x22x19 mm)

### Environmental

- Operating temperature: 23 to 131°F (-5 to 55°C).
- Storage temperature: -13 to 158°F (-25 to 70°C).
- Operating and storage relative humidity: 10 to 90% non-condensing RH.

### Regulatory Approvals

- CE, FCC, RoHS

### Warranty

- Two years

### Test Patterns

