Portable 4K HDMI Video Test Pattern Generator/Analyzer

https://www.montest.com/test-pattern-generators/portable-4k-test-pattern-generator-111.html

- Three modes of operation analyzer, pattern, and cable test.
- Generates 17 test patterns and features 23 built-in resolutions.
- Supports HDMI resolutions up to 4096×2160@60Hz (4:4:4).
- HDMI 2.0 and DVI 1.0 compliant.
- HDCP v1.4 and v2.2 analysis and control.
- Analyze and emulate EDID data, including the Status and Control Data Channel (SCDC), with 10 built-in default EDIDs and 10 user-definable EDIDs
- Built-in sine wave tone generator for audio signal testing.
 - Up to 8 channels of LPCM audio test tones can be generated with a wide range of frequencies.
- Control the test pattern generator through OLED screen using front panel buttons or RS232 using USB serial port.
- OLED display provides a way to quickly view the current signal status information.
 - Displays video source information, including: resolution, refresh rate, scanning methods (interlaced or progressive), video type (2D or 3D, HDMI or DVI), HDCP version, general control packet status, color space information (RGB, YCbCr 4:4:4, 4:2:2, or 4:2:0), color depth (8bit, 10bit or 12bit), and audio information.
- Portable, compact design powered by a single, rechargeable Lithiumion battery (not included).
 - VPI recommends the Panasonic NCR18650BF Lithium-ion battery.
- Ideal for many applications, including: installer/integrator multifunction test tool; HDMI source and sink testing; UHD system/SCDC error identification; third-party equipment setup; source and sink EDID reading/writing/saving; HDCP compliance verification; production testing; R&D design and testing.



MONTEST-HD4K-PTB

The MONTEST-HD4K-PTB Portable 4K Ultra HD Video Test Pattern Generator generates video test patterns for evaluating and testing HDMI displays and components up to 4Kx2K @60Hz (4:4:4). HDMI timing, data packet, EDID and HDCP analysis are supported, along with EDID upload and emulation. It also supports audio test signals including a built-in sine wave tone generator.

Specifications

Video/Audio

- Female HDMI connectors for input and output.
- HDMI 2.0 (up to 4K@60Hz 4:4:4) and DVI 1.0 compliant.
- HDCP 1.4 and 2.2 compliant.
- HDMI resolutions supported: 480p@59Hz, 576p@50Hz, 720p@25/30/50/60Hz, 1080i@50/60Hz, 1080p@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, and 4096×2160@24/25/30/50/60Hz.
- Video bandwidth: 600MHz (18 Gbps)
- Supports embedded digital audio.

Control Methods

- RS232
 - One female USB Micro-B connector.
 - Also used for firmware updates and for battery charging.
 - Requires drivers to be installed for RS232 control.
- Front Panel Interface
 - Multi-function and multi-color backlit front panel buttons allow for easy operation.
 - OLED display provides a way to quickly view the current signal status information.

Power

- Powered by Lithium-ion 18650 battery (not included) or 5VDC, 2.1A
 USB Power Adapter (not included).
 - VPI recommends the Panasonic NCR18650BF 3350mAH Lithiumion battery.
 - Runtime: up to 4 hours, depending on usage and battery quality
 - 3.38-ft USB Type A to USB Micro-B male-to-male cable included.

Environmental

- Operating temperature: 32 to 104°F (0 to 40°C).
- Storage temperature: -4 to 140°F (-20 to 60°C).
- Operating and storage relative humidity: 20 to 90% non-condensing

Dimensions

■ WxDxH (in): 3.12x1.05x5.46 (79x27x279 mm)

Regulatory Approvals

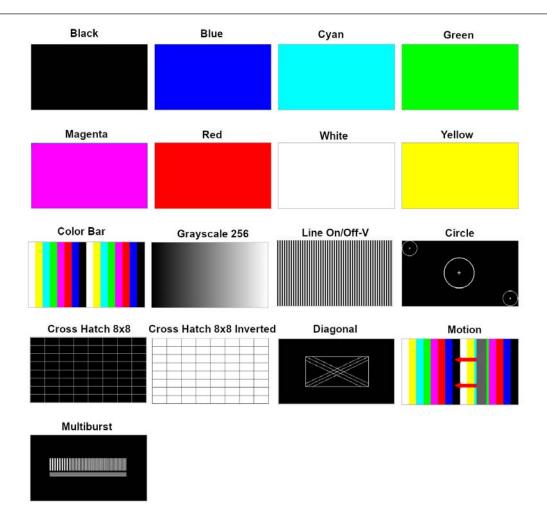
- CE, FCC, RoHS
- TAA compliant



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Test Patterns





1.800.626.7801

Toll Free: US & Canada

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