8K HDMI 2.1 Test Pattern Generator & Analyzer with SDVoE Option and AVoIP Tests

The TPG-8K is the first test 8K test pattern generator with analyzer to focus on AV over IP in addition to HDMI. AVoIP has quickly become the leading distribution for our industry which is why we built a device to properly test the image quality from end to end. The latency performance of the stream is just as important which is why we added the ability to measure end to end latency including the network switch latency. Along with HDMI, HDCP, and EDID analyzing assures an install or lab testing goes smooth and quickly. We even made it rack mountable for use at a headend to send patterns or view content on the HDMI or SDVoE with optional expansion card.

Features:

- Supports video resolution outputs up to 8K60 4:2:0 10bits, 8K30 4:4:4 & 4K2K 120Hz

- Supports HDR, which is 4K2K@60 4:2:0 10-bits/12-bits

- Built-in motion video patterns

- HDMI input and output support up to HDMI 2.1 & HDCP 1.4/2.3

- Fundamental HDMI feature analysis up to 8K4K@60 4:2:0 8bit HDMI 2.1 input

- HDCP & EDID Analysis

- AV over IP Test Patterns and Latency Analyzer

- Wide frequency range: 25MHz~1188MHz

- 40G Input & 48G Output Video bandwidth

- 7" Capacitive Touch Screen & Web Server for remote control

- Battery powered for portability; it can extend operation time with full load up to 3 hours

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Spec Sheet: 230501

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Technical Specifications:

Model Name	TPG-8K
Technical	
Role of usage	HDMI 2.1 Installation Gear
Video bandwidth	Input up to FRL 5 (40G) Output up to FRL 5 (48G)
HDMI compliance	HDMI 2.1 and below
HDCP compliance	HDCP 2.3 and below
Video Support	up to 8K60 4:2:0 10bits, 8K30 4:4:4 & 4K2K 120Hz
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
Video Format Support	HDMI
Input	1x HDMI
Output	1x HDMI
Audio	Dual 2 Watt Speakers
Control	7" Capacitive Touch Screen & External Mouse Control
HDMI connector	Type A [19-pin female]
USB Support	Firmware update / Recharge
USB connector	USB-C
Option Card Slot	SDVoE Option Card Slot (Additional Coming)
Mechanical	
Housing	Metal Case
Mounting	Optional Rack Mount
Dimensions (L x W x H)	TBD
Weight	TBD
Power Supply	PoE+, USB-C & Battery
Power Consumption	TBD
Operation Temperature	0~40º C [32~104º F]
Storage Temperature	-20~60º C [-4~140º F]
Relative Humidity	20~90% RH [No Condensation]
Package Contents	1x TPG-8K (Optional Rack Mount)

Note: Specifications subject to change without notice.

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