



KRAMER

860

4K60 4:4:4 HDCP 2.2 HDMI 2.0 18G Signal
Generator & Analyzer

| HDMI | 4K/60 UHD (4:4:4)



The 860 HDMI 18G (6G per graphic channel) Signal Generator & Analyzer is an advanced and handy tool for generating, testing and verifying the signal path within your (up to) 4K@60Hz (4:4:4) HDMI 2.0/HDCP 2.2 ecosystem. With 88 built-in resolutions, 55 test patterns and over a dozen types of AV analysis functions, this unit provides an enormous range of testing options. HDMI data packet, EDID and HDCP analysis is supported along with EDID upload and emulation. Additionally the Status and Control Data Channel (SCDC) can be monitored, allowing HDMI 18G signal detection and analysis. Up to 8 channels of LPCM audio test tones can be generated with a wide range of frequencies and audio levels

FEATURES

Max. Resolution - 4K@60Hz (4:4:4)

Standards Compliance - HDMI 2.0, DVI 1.0 and HDCP 1.4/2.2

Data Path Analysis - Source and sink up to 18G HDMI signals (6G per graphic channel)

Analysis of HDMI Data Packet

Analysis & Control of HDCP v1.4 and v2.2

Analysis & Emulation of EDID Data - Including SCDC

Analysis of Input Audio Signals

HDR Bypass & Analysis Support

HDMI Timing Generation - Up to 4096×2160 @60Hz (4:4:4), 8bit

VGA Output Supports - 350p, 480p, 576p, 720p, 1080i, 1080p, 640×480, 800×600, 1024×768, 1280×1024, 1366×768, 1400×1050, 1440×900, 1600×900 (Reduced Blanking; RB), 1600×1200, 1680×1050, 1920×1200 (RB), 2048×1080p

HDMI Output Supports - 350p, 480p, 576p, 720p, 1080i, 1080p, 640×480, 800×600, 1024×768, 1280×1024, 1366×768, 1400×1050, 1440×900, 1600×900 (RB), 1600×1200, 1680×1050, 1920×1200 (RB), 3G4K, 6G4K

Custom User Test Patterns - 640×480 & 1920×1080

External Stereo Audio Input & Output

LPCM Sinewave Audio Generation - Up to 8 channels

Control Options - Frontpanel, RS232, Telnet, and IR remote controls

OLED Display - With rapid updates of current status information

Detailed OSD - For settings and informational displays

USB Firmware & Pattern Update

Small & Portable Unit



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TECHNICAL SPECIFICATIONS

INPUTS:	1 HDMI, 1 unbalanced stereo audio (2Vrms max. 20k) on a 3.5mm jack, 1 RS232 on a 9pin Dsub connector, 1 Ethernet on an RJ45 connector, 1 USB connector
OUTPUTS:	1 HDMI, 1 VGA on a 15pin HD connector, 1 unbalanced stereo audio (2Vrms max. 560) on a 3.5mm jack
COMPLIANCE WITH HDMI STANDARD:	Up to HDMI 2.0 and HDCP 2.2
CONTROLS:	Panel buttons with OLED display, OSD, RS232, IR, and Ethernet
MAXIMUM DATA RATE:	18Gbps (6Gbps per graphic channel)
ESD PROTECTION:	Human body model: ± 8 kV (airgap discharge), ± 4 kV (contact discharge)
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)
STORAGE TEMPERATURE:	20° to +60°C (4° to 140°F)
HUMIDITY:	20% to 90%, RHL noncondensing
POWER CONSUMPTION:	5V DC, 1.6A
PRODUCT DIMENSION:	16.50cm x 13.20cm x 3.00cm (6.50" x 5.20" x 1.18") W, D, H
PRODUCT WEIGHT:	0.8kg (1.7lbs) approx
SHIPPING DIMENSION:	34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05") W, D, H
SHIPPING WEIGHT:	1.2kg (2.7lbs) approx
POWER SUPPLY:	5.2V/4A
CHASSIS MATERIAL:	Metal
SAFETY REGULATORY COMPLIANCE:	CE
INCLUDED ACCESSORIES:	Remote control (LR40), power supply

