



KRAMER

DIP-20

4K60 4:2:0 HDMI & VGA Auto Switcher and
PoE Provider over HDBaseT with Maestro
Room Automation

| HDMI | Ethernet - RJ-45 | HDCP Compliant
| HDBaseT | 4K/60 UHD (4:2:0)



DIP-20 is an extended reach 4K@60Hz (4:2:0), HDBaseT transmitter and Step-in commander for VGA video, HDMI, and unbalanced stereo audio embedding and de-embedding. DIP-20 accepts HDMI and VGA video input, an Ethernet signal, serial data, and an unbalanced stereo audio input (that is embedded into the output signal). It transmits the signal to an HDBaseT (twisted pair) cable to a compatible receiver (for example, the TP-588D or TP-580RXR). DIP-20 is a PoE (Power over Ethernet) provider and can power compatible PoE acceptors (for example, TP-588D)

FEATURES

Simple and Powerful Maestro Room Automation - Intuitive user interface enables you to fully automate your meeting room elements. Configure lights, shades, devices and more to be activated by an extensive range of triggers, including input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations

Max. Data Rate - 10.2Gbps (3.4Gbps per graphic channel)

Max. Resolution - 4K@60Hz (4:2:0) and WUXGA

HDTV Compatible

HDCP Compliant - Works with sources that support HDCP repeater mode

HDMI Support - Deep Color, x.v.Color™ and 3D

HDBaseT Certified

Automatic Live Input Detection - Based on video clock presence

Automatic Input Selection - Based on manual selection or last connected input

Automatic Analog Audio Detection & Embedding

EDID Pass-through - Pass-through algorithm ensures Plug and Play operation for HDMI source and display systems

System Range - Up to 130m (430ft) at normal mode (2K), up to 100m at normal mode (4K); up to 180m (590ft) ultra mode (1080p @60Hz @24bpp) when using BC-UNIKAT cables

Data Equalization and Reclocking

Local Balanced Audio De-Embedding

Support for Digital Audio Formats

Lockable EDID

Local Step-In Switching - Button & contact closure

Power Supply - Supports PoE to power a remote receiver (such as TP-588D). Requires independent power supply



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TECHNICAL SPECIFICATIONS

INPUTS:	2 HDMI on HDMI connectors, 1 VGA on a 15-pin HD (F) connector, 1 unbalanced stereo audio 1V RMS (nominal) on a 3.5mm mini jack
OUTPUTS:	1 HDBaseT on an RJ-45 connector, 1 unbalanced stereo audio 1V RMS (nominal) on a 3.5mm mini jack
PORTS:	1 Ethernet on an RJ-45 connector, 1 RS-232 3-pin terminal block control port, 1 RS-232 3-pin terminal block data port, 1 USB on mini USB connector
CONTROLS:	Remote switches for input switching, step-in, volume control, and device reset switch
STANDARDS:	HDMI with Deep Color, x.v.Color™ and 3D; HDCP—works with sources that support HDCP repeater mode; HDBT certified
MAXIMUM ANALOG AUDIO LEVELS:	3.1Vpp
THD:	0.013%
SNR:	-75dBu
Room Automation	Kramer Maestro V1.0
SUPPORTED WEB BROWSERS:	Windows 7 and higher: Internet Explorer (32/64 bit) version 11, Firefox version 30, Chrome version 35; MAC: Chrome version 35, Firefox version 27, Safari version 7; Android OS: Chrome version 35; iOS: Chrome version 35, Safari version 7
MAXIMUM TRANSMISSION DISTANCE:	180m (590ft) up to 1080p @60Hz @24bpp in extended mode, 130m (430ft) up to 1080p @60Hz @36bpp in normal mode
POWER CONSUMPTION:	48V DC, 630mA
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)
STORAGE TEMPERATURE:	-40° to +70°C (-40° to 158°F)
HUMIDITY:	10% to 90%, RHL non-condensing
COOLING:	Convection
ENCLOSURE TYPE:	Aluminum
ENVIRONMENTAL REGULATORY COMPLIANCE:	Complies with appropriate requirements of RoHs and WEEE
INCLUDED ACCESSORIES:	Power adapter 48V DC 1.36A, ADC-DPM/HF DisplayPort (M) to HDMI (F) adapter cable, power cord, DIP-20BP black panel
WARRANTY:	7 years parts and labor
Product Dimension	18.80cm x 0.15cm x 2.50cm (7.40" x 0.06" x 0.98") W, D, H 18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00") W, D, H
Product Weight	0.0kg (0.0lbs) approx 0.5kg (1.0lbs) approx
Shipping Dimension	28.50cm x 10.50cm x 5.90cm (11.22" x 4.13" x 2.32") W, D, H 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05") W, D, H

Shipping Weight

0.6kg (1.2lbs) approx

1.2kg (2.6lbs) approx



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CONFIGURATIONS

DIP-20	4K60 4:2:0 HDMI & VGA Step-In PoE Transmitter with Ethernet, RS-232 & Stereo Audio over Extended-Reach HDBaseT
DIP-20/JP	4K60 4:2:0 HDMI & VGA Step-In PoE Transmitter with Ethernet, RS-232 & Stereo Audio over Extended-Reach HDBaseT - JP
DIP-20BP	Black Front Panel for DIP-20

