



# KRAMER

## DIP-22

4K60 4:2:0 DisplayPort++, HDMI & VGA Auto  
Switcher with Bidirectional PoE over  
HDBaseT and Maestro Room Automation

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



DIP-22 is an extended reach 4K@60Hz (4:2:0) HDBaseT transmitter and Step-in commander for DisplayPort++, HDMI and VGA video input and unbalanced stereo audio input. It provides full room automation including control of lights, screens, shades and many other exciting options. In addition, DIP-22 accepts Ethernet and serial data input signals for control.

DIP-22 is a PoE (Power over Ethernet) provider and acceptor, so it can simplify your installation and save you time and money by powering other devices or by receiving power over the network

## FEATURES

**High-Performance Standard Switcher** - Professional HDBaseT certified switcher with HDTV compatibility, HDCP compliance (works with sources that support HDCP repeater mode), and HDMI Deep Color, x.v.Color™ and 3D support

**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 scheduling, input/output connectivity, routing, and button pressing. By minimizing user intervention, Maestro room automation saves meeting prep time and minimizes human error before presentations

**Automatic Live Input Detection and Selection** - Input is detected based on video clock presence and the user can configure automatic input selection according to priority or last connected input

**Analog Audio Embedding and De-embedding** - Embeds the analog audio input signal in the HDBaseT output signal and extracts the HDMI audio signal and outputs it as analog audio

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling & processing algorithm ensures Plug and Play operation for HDMI systems

**System Range** - Up to 180m (590ft) in ultra mode (1080p @60Hz @24bpp), up to 130m (430ft) in normal mode (2K), and up to 100m at normal mode (4K). Note: When using recommended Kramer cables

**Data Equalization and Reclocking**

**Lockable EDID**

**Local Step-In Switching** - Button & contact closure

**Versatile Power Options** - Powered by a compatible PoE provider or by the 48V power adapter. Supplies PoE power to a compatible remote receiver



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## TECHNICAL SPECIFICATIONS

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Inputs	1 HDMI: on a female HDMI connector 1 DisplayPort++: on a female DisplayPort connector 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 Control: on a 3-pin terminal block 1 RS-232 Data: on a 3-pin terminal block 1 USB: on mini USB connector
Video	HDMI Support: Deep Color, x.v.Color™ and 3D HDCP Compliance: works with sources that support HDCP repeater mode HDBaseT: Certified
Extension Line	Extended Mode: Up to 180m (590ft) at 1080p @60Hz @24bpp Normal Mode: Up to 130m (430ft) at 1080p @60Hz @36bpp High-Resolution Mode: Up to 100m (33.8ft) at 4K60 4:2:0
Audio	Maximum Analog Audio Levels: 3.1Vpp THD: 0.013% SNR: -75dBu
Room Automation	Kramer Maestro: Version 1.5
Power	Source: 48V DC Consumption: 500mA
User Interface	Controls: Remote switches for input switching, step-in, volume control, and device reset switch Indicators: HDBaseT Link and Power ON LEDs
Supported PC Web Browsers	Windows 7: Internet Explorer, Firefox, Chrome, Safari Windows 10: Internet Explorer, Edge, Firefox, Chrome MAC 10.11: Safari
STANDARDS COMPLIANCE	Environmental: RoHs and WEEE
Environmental Conditions	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
Enclosure	Size: MegaTOOLS® – Mount 2 units side-by-side in a 1U rack space Enclosure Type: Aluminum

Cooling: Convection

Accessories Included: 48V DC power adapter

PRODUCT DIMENSION: 18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00" ) W, D, H

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PRODUCT WEIGHT: 0.5kg (1.1lbs) approx

0.5kg (1.0lbs) approx

SHIPPING DIMENSION: 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H

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SHIPPING WEIGHT: 1.0kg (2.3lbs) approx

1.2kg (2.6lbs) approx

