KRAMER

WP-20 Quick Start Guide

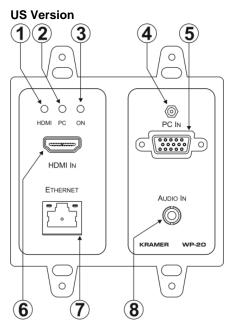This guide helps you install and use your **WP-20** for the first time.

Go to www.kramerav.com/downloads/WP-20 to download the latest user manual and check if firmware upgrades are available.
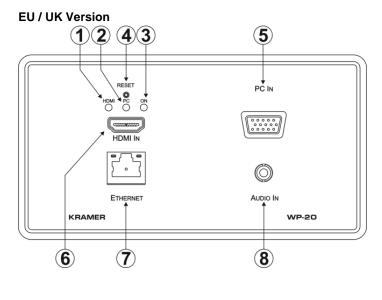
Step 1: Check what's in the box

☑ **WP-20** Wall plate
☑ 1 Power supply (12V DC)
☑ 1 Quick start guide

Step 2: Get to know your WP-20

US Version

EU / UK Version

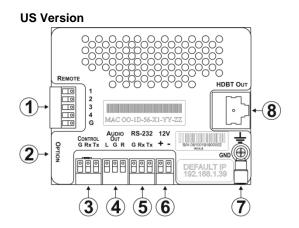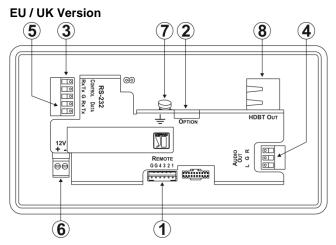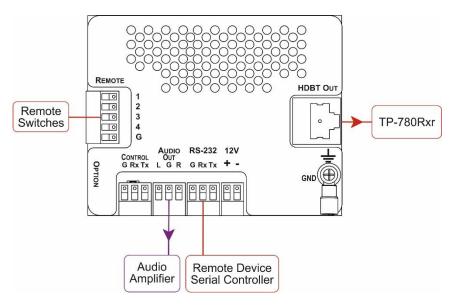| #	Feature	Function
1	*HDMI™* LED	When HDMI is selected: Lights orange when external audio is selected. Lights green when embedded audio is selected. LED is off when HDMI is not selected.
2	*PC* Graphics LED	When PC input is selected: Lights orange when external audio is selected. Lights green when there is no audio. LED is off when the PC input is not selected
3	*ON* LED	The LED indicates the following: Lights green – power is provided by a power adapter. Lights orange – power is provided by PoE.
4	*RESET* Button	Short press to reset the device. Long press (5 seconds) to reset the device to factory default parameters.
5	*PC IN* Input Connector	Connect to the PC graphics source (for example, a laptop).
6	*HDMI IN* Input Connector	Connect to an HDMI source (for example, a Blu-ray disk player).
7	*ETHERNET* RJ-45 Connector	Connect to the Ethernet LAN.
8	*AUDIO IN* 3.5mm Mini Jack	Connect to the unbalanced, stereo audio source (for example, the audio output of the laptop).

P/N: 2900-300919QS   Rev: 6

US Version

EU / UK Version

#	Feature	Function
1	*REMOTE* 5-pin Terminal Block	Connect to the remote, contact-closure switches for remote control (see Step 8).
2	*OPTION* 4-way DIP-switch	Switches for setting the device behavior (see Step 4).
3	*CONTROL* 3-pin Terminal Block	Connect to the serial controller to control the **WP-20** (for example, a PC).
4	*AUDIO OUT* 3-pin Terminal Block	Connect to the unbalanced, stereo audio acceptor (for example, amplified speakers).
5	*RS-232* 3-pin Terminal Block	Connect to the PC to transfer data via RS-232 (for example, a serial controller for a remote device).
6	*12V* DC Connector	Connect to the included power supply. Not needed on the **WP-20** if there is a PoE provider over HDBaseT.
7	*GND* Terminal	Connect to the common ground (optional).
8	*HDBT OUT* RJ-45 TP Connector	Connect to a compatible HDBT TP switcher or receiver (for example, the TP-780Rxr).

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
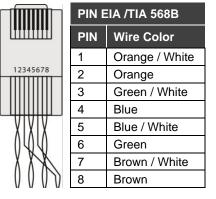
Step 3: Connect inputs

Always switch OFF the power on each device before connecting it to your **WP-20**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **WP-20**.

RJ-45 Pinout:
For the Ethernet connector, see the wiring diagram below:

PIN EIA /TIA 568B	
PIN	**Wire Color**
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

Step 4: Set DIP switches

Video Switching Selection

DIP-switch 1	DIP-switch 2	Video Input Selection
Off	Off	Automatic – Last connected. Where more than one source is connected, the last source has priority.
Off	On	Automatic – Priority selection. HDMI 1 → PC IN.
On	Off	Manual
On	On	Manual

Audio Switching Selection

DIP-switch 3	DIP-switch 4	Audio Input Selection
Off	Off	Automatic – Priority selection. Embedded HDMI → analog Audio In.
Off	On	Automatic – Priority selection. Analog Audio In → embedded HDMI.
On	Off	Embedded HDMI
On	On	Analog Audio In

Step 5: Connect power

If the device is not powered via HDBT PoE, connect the 12V power supply to the **WP-20** and plug the power supply into the mains power.

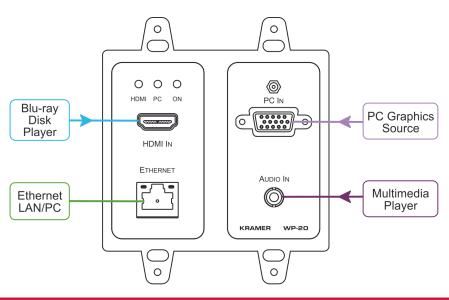⚠️ Safety Instructions (See www.kramerav.com for updated safety information)
Caution:
- There are no operator serviceable parts inside the unit.

Warning:
- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.

Step 6: Mount WP-20

Mount the device in a suitable wall box. We recommend opening all holes in the walls of the box to assist in cooling the **WP-20**.

Step 7: Connect outputs

Step 8: Operate WP-20

Operate WP-20 via Protocol 3000

Default IP Parameters

Parameter	Values	Default
Device Name	Any alphanumeric string up to 14 chars (can include hyphen, but not at the beginning or end)	KRAMER_
DHCP	ON/OFF	OFF
IP Address	Any valid IP address	192.168.1.39
Mask	Any valid network mask	255.255.0.0
Gateway	Any valid gateway address	192.168.0.1
TCP Port	0 to 65535	5000
UDP Port	0 to 65535	50000

Default RS-232 Communication Parameters

Parameter	Values
Baud Rate	115200
Data Bits	1
Stop Bits	1
Parity	None
Command Format	ASCII

Default Web Pages Logon Authentication

Parameter	Values
Name	Admin
Password	Admin

Operate WP-20 via Remote contact-closure switches

#	Feature	Function
1	Input selection / VGA phase shift switch	Short press – Input toggle Long press – Adjusts the VGA phase shift
2	Step-in switch	Activates the step-in function if relevant
3	Analog audio output volume increase control	Short press – Increases the volume one step (0.5dB) Long press – Increases the volume from -83dB to +24dB in 10 seconds
4	Analog audio output volume decrease control	Short press – Decreases the volume one step (0.5dB) Long press – Decreases the volume from +24dB to -83dB in 10 seconds
G	Ground	Connect to the common side of the switches

Switch 1 — 1
Switch 2 — 2
Switch 3 — 3
Switch 4 — 4
— G
REMOTE

Operate WP-20 via Web Page

Step 9: Technical Specifications

INPUTS:	Video:	1 HDMI on an HDMI connector, 1 VGA on a 15-pin HD (F) connector	
	Audio:	1 Unbalanced stereo audio on a 3.5mm mini jack	
OUTPUTS:	1 HDBaseT on an RJ-45 connector, 1 Unbalanced stereo audio on a 3.5mm mini jack		
PORTS:	1 RS-232 3-pin terminal block, 1 Ethernet on an RJ-45 connector		
CONTROLS:	Remote switches for input switching and volume control, reset switch		
STANDARDS:	HDMI with Deep Color, x.v.Color™ and 3D, HDCP—works with sources that support HDCP repeater mode, HDBT certified		
MAX. ANALOG AUDIO LEVEL:	3.1V p-p		
THD:	0.013%	SNR:	–70dB
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		
MAXIMUM TRANSMISSION DISTANCE:	180m (590ft) up to 1080p @60Hz @24bpp in extended mode 130m (430ft) up to 1080p @60Hz @36bpp in normal mode 100m (330ft) up to 4K @60Hz (4:2:0) in normal mode		
POWER CONSUMPTION:	12V DC, 850mA		
OPERATING TEMP:	0° to +40°C (32° to 104°F)	STORAGE TEMP:	–40° to +70°C (–40° to 158°F)
HUMIDITY:	10% to 90%, RHL non-condensing		
COOLING:	Convection		
ENCLOSURE TYPE:	Aluminum		
DIMENSIONS:	2 Gang USA 11.6 cm x 5.1cm x 11.4cm (4.57" x 2.01" x 4.49") W, D, H 2 Gang EU 15.1cm x 4.7cm x 8.6cm (5.94" x 1.85" x 3.39") W, D, H		
WEIGHT:	0.23kg (0.51lbs) approx.	SHIPPING WEIGHT:	0.51kg (1.12lbs) approx.
ENVIRONMENTAL REGULATORY COMPLIANCE:	Complies with appropriate requirements of RoHs and WEEE		
VIBRATION:	ISTA 1A in carton (International Safe Transit Association)		
COMPLIANCE STANDARDS:	CE		
INCLUDED ACCESSORIES:	Power adapter		
WARRANTY:	7 years parts and labor		

Specifications are subject to change without notice at www.kramerav.com

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