

BG-PSC51-4K

5X1 4K60 18GBPS SEAMLESS HDMI/USB-C PRESENTATION SWITCHER WITH MULTIVIEW/ KVM/60W CHARGING/DANTE AUDIO AND INCLUDED HDBASET 3.0 RECEIVER

The BG-PSC51-4K is a professional 5x1 seamless presentation switch designed for conference rooms, classrooms, collaboration spaces, and enterprise AV installations. Featuring three HDMI inputs and two USB-C inputs with DisplayPort Alt Mode, it supports seamless source switching, mirrored HDMI and HDBaseT outputs, and stunning 4K@60Hz 4:4:4 video. Integrated HDBaseT 3.0 technology extends video, USB, control, and Ethernet signals up to 70m (230ft) over a single CAT6A cable while powering the receiver via PoE, simplifying installation and reducing cable requirements.

Built for modern collaborative environments, the BG-PSC51-4K combines advanced multiview layouts, USB KVM extension, Dante audio networking, comprehensive audio routing, and extensive control options into a single platform. Whether used for corporate presentations, higher education, government, or command centers, it provides a flexible, centralized solution for managing video, audio, USB, and control signals.



FEATURES



5X1 SEAMLESS PRESENTATION SWITCHING

Switches between three HDMI and two USB-C sources with seamless transitions and mirrored HDMI and HDBaseT outputs for professional presentation environments



USB-C COLLABORATION CONNECTIVITY

USB-C inputs support DisplayPort Alt Mode, USB 2.0, 100Mbps Ethernet, and up to 60W Power Delivery over a single cable



HDBASET 3.0 SIGNAL EXTENSION

Extends uncompressed 4K@60Hz video, USB, control, and Ethernet up to 70m (230ft) over CAT6A with integrated PoE for the receiver



ADVANCED MULTIVIEW & KVM

Supports full-screen, PIP, PBP, triple-window, and quad-window layouts with integrated USB 2.0 KVM switching for local and remote USB devices



INTEGRATED DANTE AUDIO MATRIX

Features Dante 2x2 networking, analog audio I/O, and a 3x3 audio matrix with independent EQ, volume, delay, embedding, and de-embedding



COMPREHENSIVE SYSTEM CONTROL

Supports front-panel operation, IR remote, RS-232, TCP/IP, and Web GUI management with advanced EDID control, CEC, firmware updates, and configuration backup



TECH SPECIFICATIONS

TECHNICAL

Product Model	BG-PSC51-4K
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
DisplayPort Version	DP 1.2
Video Bandwidth	18 Gbps
Input Video Resolution	480i-1080p@50/60Hz, 4K@24/30Hz, 4K@50/60Hz 4:4:4
Output Video Resolution	Auto, up to 4096x2160@60Hz
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	Input: 8/10/12-bit (8-bit @ 4K60 4:4:4); Output: 8-bit
HDR Support	Input supported; output not supported
HDBaseT Standard	HDBaseT 3.0
Transmission Distance	230 ft / 70 m (1080p & 4K30); 131 ft / 40 m (4K60)
PoE Support	Yes (TX PSE, RX PD)
Multiview Modes	Single, PIP, PBP, Triple, Quad
USB Support	USB 2.0 local KVM and USB extension over HDBaseT
USB-C Functions	Video (DP Alt Mode), USB 2.0, 100M Ethernet, up to 60W charging
Network Bandwidth	100 Mbps
100 Mbps	Front panel, IR, RS-232, TCP/IP, Web GUI
EDID Management	Advanced, user-configurable
Advanced, user-configurable	IEC 61000-4-2 ±8kV (air), ±4kV (contact)

TX ANALOG AUDIO

Input Impedance	Input Impedance
Output Impedance	330 Ω
Max Line Input Level	8.2 dBu (2 Vrms), balanced/unbalanced
Max Line Output Level	8.2 dBu (2 Vrms) balanced; 2.2 dBu (1 Vrms) unbalanced
Frequency Response	20 Hz-20 kHz (+0.5 dB / -1 dB)
20 Hz-20 kHz (+0.5 dB / -1 dB)	0-50 ms
S/N Ratio	93 dB @ 2 Vrms, 1 kHz (A-weighted)
THD+N	<0.1% @ 0 dBV, 1 kHz

RX ANALOG AUDIO

Output Impedance	330 Ω
Max Line Output Level	8.2 dBu (2 Vrms) balanced; 2.2 dBu (1 Vrms) unbalanced/strong>
Frequency Response	20 Hz-20 kHz (+0.5 dB / -1 dB)
Audio Delay	0-50 ms
S/N Ratio	93 dB @ 2 Vrms, 1 kHz (A-weighted)
THD+N	<0.1% @ 0 dBV, 1 kHz

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit [bzbgear.com/warranty](https://www.bzbgear.com/warranty).
For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Pro Line Products
5-YEAR WARRANTY

Essential Line Products
3-YEAR WARRANTY

Cables Products
LIFETIME WARRANTY



TECH SPECIFICATIONS

DANTE AUDIO

Network Audio	Dante 2x2
Audio Format	LPCM 2.0
Sample Rates	44.1 / 48 / 88.2 / 96 kHz @ 24-bit
Audio Delay	2, 3, 4, 5, 10 ms
Network Bandwidth	100 Mbps

CONNECTION

Transmitter Inputs	3x HDMI, 2x USB-C, 1x Line In, 1x Dante
Transmitter Outputs	1x HDMI, 1x HDBaseT, 1x Line Out
Transmitter Control	RS-232, LAN, USB Host, 2x USB Device, IR In/Out
Receiver Inputs	HDBaseT, HDMI
Receiver Outputs	HDMI, Line Out
Receiver Control	RS-232, USB Host, 2x USB Device, IR In/Out
Receiver Power	PoE via HDBaseT or DC 24V

MECHANICAL

Housing	Aluminum front panel, metal enclosure
Color	Black
Dimensions (Transmitter)	8.7 x 5.9 x 1.7 in [220 x 150 x 44 mm]
Dimensions (Receiver)	5.5 x 4.1 x 0.85 in [140 x 105 x 21.5 mm]
Weight (Transmitter)	2.7 lbs [1.21 kg]
Weight (Receiver)	0.93 lbs [424 g]
Power Supply	AC 100–240V, DC 24V / 8A
Max Power Consumption	150 W
Operating Temperature	32°F to 104°F / 0°C to 40°C
Storage Temperature	–4°F to 140°F / –20°C to 60°C
Operating Humidity	20%–80% RH (non-condensing)
Storage Humidity	10%–90% RH (non-condensing)

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