



BG-8K-HCS41

4X1 8K UHD HDMI/USB-C 2.1 SWITCHER
(8K60/4K120HZ 4:4:4 VRR/ALLM/QMS/QFT/SBTM SUPPORT)

The BG-8K-HCS41 is an ultra-thin 4x1 switcher designed for high-performance AV applications. It features three HDMI 2.1 inputs, one USB-C input, and one HDMI output, supporting resolutions up to 8K@60Hz 4:2:0 12-bit (HDMI) and 8K@30Hz 4:2:2 10-bit (USB-C). This switcher is fully compliant with DP 1.4 and HDCP 2.3, and supports advanced video technologies including HDR10, HDR10+, Dolby Vision, and HLG pass-through. With support for HDMI 2.1 features such as VRR, ALLM, QMS, QFT, and SBTM, along with multichannel audio pass-through for Dolby Atmos, DTS:X, and LPCM 7.1CH, it delivers an immersive audio-visual experience.

The BG-8K-HCS41 offers easy control via front-panel buttons, IR remote, and supports both manual and auto-switching between active inputs. Built-in EDID management can be configured using a 3-pin DIP switch on the front panel, with EDID status displayed on the connected monitor. Additional features include CEC control for simplified TV-to-source communication and firmware updates through the service port, making this switcher a versatile solution for home theater, gaming, and professional AV installations.



FEATURES



UHD USB-C QUALITY

Supports resolutions up to 8K@30Hz (4:2:2, 10-bit) and 4K@120Hz (4:2:2, 10-bit) via USB-C



UHD HDMI QUALITY

Supports resolutions up to 8K@60Hz (4:2:0, 12-bit), 8K@30Hz (4:4:4, 12-bit), and 4K@120Hz (4:4:4, 12-bit)



INPUT SWITCHING OPTIONS

Supports automatic and manual input switching, controllable via front panel buttons and IR remote



CEC CONTROL FUNCTIONALITY

Enables CEC pass-through control from the display (output) to the source device (input)



AUDIO PASS-THROUGH

Supports LPCM 7.1CH, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X audio formats



HDR PASS-THROUGH

Passes through HDR formats, including HDR, HDR10, HDR10+, Dolby Vision, and HLG



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	HDMI: Up to 48Gbps FRL and 18Gbps TMDS USB-C: Up to 32Gbps
Video Resolution	HDMI: Up to 8K@60Hz 4:2:0 12-bit, 4K@120Hz 4:4:4 12-bit USB-C: Up to 8K@30Hz 4:2:2 10-bit, 4K@120Hz 4:2:2 10-bit
Color Depth	8-bit,10-bit,12-bit
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos,DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection

Input	3 x IN [HDMI Type A, 19-pin female] 1 x IN [USB Type C, 24-pin female]
Output	1 x OUT [HDMI Type A, 19-pin female]
Control	1 x SERVICE [USB Type C, update port] 1 x IR Receive Window

Mechanical

Housing	Metal Enclosure
Color	Black
Dimensions (WxDxH)	5.7in x 2.7in x 0.71in [145mm x 68mm x 18mm]
Weight	0.57 lbs [258g]
Power Supply	Input: AC 100~240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	2.25W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

Recommended HDMI Cable	8K60	4K60	4K24	1080P
HDMI Cable Length (HDMI in / out)	2m/6.6ft (Ultra HDMI 2.1)	8m/26ft	12m/39ft	15m/49ft

The use of "Premium High Speed HDMI" cables is highly recommended.

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