

## SB-5658U

1x8 4K2K ULTRA HDMI Distribution Amplifier



Input : 1x HDMI  
Output : 8x HDMI

PRO



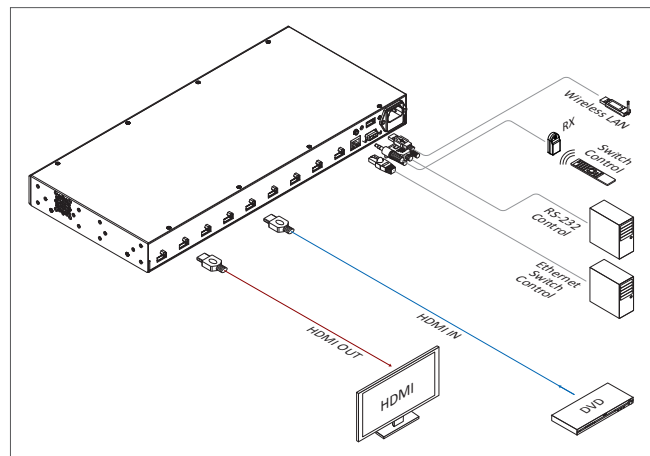
Ear Rack : 1U-440L

03

### INTRODUCTION

The SB-5658U is professional 1x8 4K2K UHD HDMI Distribution Amplifier. Supporting (1) one HDMI Input and output supported (8) Eight 4K2K-60Hz UHD HDMI ports. It is based on the HDMI standard 4k2k and supports full 4K2K 60Hz ULTRA High Definition resolution 3840x2160 HDMI Video with embedded EDID modes, Support Video signal wide frequency range from 25MHz to 600MHz, there is no signal degradation. Ultra High Definition Digital signals can be distributed to one (1) Input to eight (8) outputs. The Distributor is certified as being fully CEC and HDCP 1.4/2.2 compliant, full UHD 4K2K HDMI 1.4/2.0a 12bit deep full 3D. Supports UXGA/WUXGA 3840x2160 resolution UHD displays. Use 1x HDMI connector for Input, effectively making this an one (1) input x eight (8) output distributor. The EDID management can be selected between Five (5) different modes 720p, 1080i-2ch, 1080p-2ch, 1080p-bitstream, 4K2K@30, and 4K2K@60Hz bitstream and Control is provided via Front panel select push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS232 Windows GUI interface is provided for switch control (Windows only).

### DIAGRAM TYPICAL



### FEATURES

1. (1)x Ultra HDMI 4K2K-60Hz UHD Standard input distribution to (8)x Ultra HDMI 4K2K-60Hz UHD Distribution Amplifier
2. HDMI compliant with 1.4/2.0a specification, 12-bit deep full HD, Full 3D, HDR and 4K2K 60Hz Video
3. Support HDCP 2.2 to HDCP 1.4 or HDCP 1.4 to HDCP 2.2 conversion
4. Support wide frequency range : 25MHz~600MHz TMDs clock rate
5. Build in five (5) worldwide Embedded EDID modes control 720p, 1080i/p & 4K2K 30/60Hz resolutions and support eight (8) Learning Destinations EDID functions
6. Audio Support Standard audio, DSD Audio, HD(HBR) Audio, ARC(Audio Return Channel). 8-Channel IIS/DSD and S/PDIF : Multi Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6CH, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
7. Various User Interface controls via Front Panel push button support worldwide (4)x control function keys via front panel controls: 1.EDID Select, 2.LRN2(Second Learning mode), 3.LOCK, 4.Enter
8. UHD HDMI Signal Booster : for 1080p Distance 98 feet (30M) and 4K2K Distance 65 feet (20M)
9. Automatic LED show out via press the select function button
10. Support Universal switch power adaptor AC100V~AC240V, Frequency 50/60Hz

### SPECIFICATIONS

Type of HDMI DA	(1)x input To (8)x Outputs 4K2K@60Hz UHD HDMI Distribution Amplifier
HDMI Support	HDMI 4K2K@60Hz frame rate, HDMI V1.4/2.0a specification
HDCP / CEC Support	HDCP 1.4 to 2.2 or HDCP 2.2 to 1.4 conversion, CEC/HDCP 1.4/2.2 Compliant
Video Bandwidth	Double Data Rates : bandwidth 25MHz ~600MHz
Digital Video Support	HD: 720p/ 1080i/p and 4K2K@30Hz/60Hz up to 12bit deep, full 3D
HDMI Input	(1)x 4K2K@60Hz Ultra High Definition (UHD) HDMI (HDMI digital from source)
HDMI Outputs	(8)x 4K2K@60Hz UHD HDMI (Signal to Destination)
Audio Outputs	Multi-channel Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6CH, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
Controls	(1)x Select function button on front panel (Data status via LED panel show out) (1)x IR Remote Controller (distributor control) (1)x IR External port (distributor control via 3.5mm OD Jack) (1)x RS 232 series interface (distributor control) (1)x Ethernet series interface (distributor control)
EDID management	Select Embedded EDID modes : Mode1: 720p@60Hz-2ch                      Mode4: 4K2K-2160p@30Hz-Bitstream Mode2: 1080i@60Hz-2ch                  Mode5: 4K2K-2160P@60Hz-Bitstream Mode3: 1080p@60Hz-Bitstream
Function Control Keys	1. EDID select press button 2. LRN2 (Second Learning EDID mode) press button 3. LOCK press button 4. ENTER press button
Inputs Status Display	Input source blue LED illuminates to indicate
Output Status Display	Output to Destination via blue LED illuminates showout
Learning EDID mode	Learning EDID from total (8) Destination Display/HDTV
HDMI Signal Booster	1. 1080p Signal Distance : ~ 98 feet / 30 meters maximum 2. 4K2K Signal Distance : ~ 65 feet / 20 meters maximum
Infrared Frequency	38 KHz
Firmware Update	Firmware update via Distribution Amplifier RS232 port
IR External Distance	1. SB-100 IR Receiver : ~984 feet / 300 meters maximum 2. SB-100C IR Receiver Cable : ~ 6.50 feet / 2 meters
HDMI I/O Connector	HDMI Type A - SMD 19pin Female Type
Temperature	Operating Temperature 32°F - 100°F (0°C - 32°C)
Safety Approvals	CE, FCC, RoHS, REACH
Rack Mount Bracket	19 inch 1U High Rack Mount Bracket (1U-440L)
Dimension (WxDxH)	17.4" x 7.87" x 1.73" (442mm x 200mm x 44mm)
Weight	2.4 kg / 5.29 lb
Power Supply	AC 100~240V 50/60Hz (universal type supply)