Modular Type

T-HDMI-A

Outputs : 1x HDMI, 1x S/PDIF, 1x Stereo Audio

T-HDBT

Outputs : 1x HDBaseT
Controls : IR (in/out), RS-232 (Tx)

T-COAX-BNC-HDMI-A

Outputs : 1x COAX (BNC), 1x Audio, 1x HDMI Loopout
Controls : IR (out), RS-232 (Tx)

T-COAX-F-A

Outputs : 1x COAX (F)
Inputs : 1x Audio

T-SDI-A

Outputs : 1x SDI
Inputs : 1x Audio

T-IP-HDMI

Outputs : 1x IP Extender, Tx(100M), 1x HDMI Loopout
Controls : IR (out), RS-232 (Tx)

T-HDMI-VGA-A

Outputs : 1x HDMI, 1x VGA/Audio, 1x Composite Video

T-FIBER

Outputs : 1x Fiber

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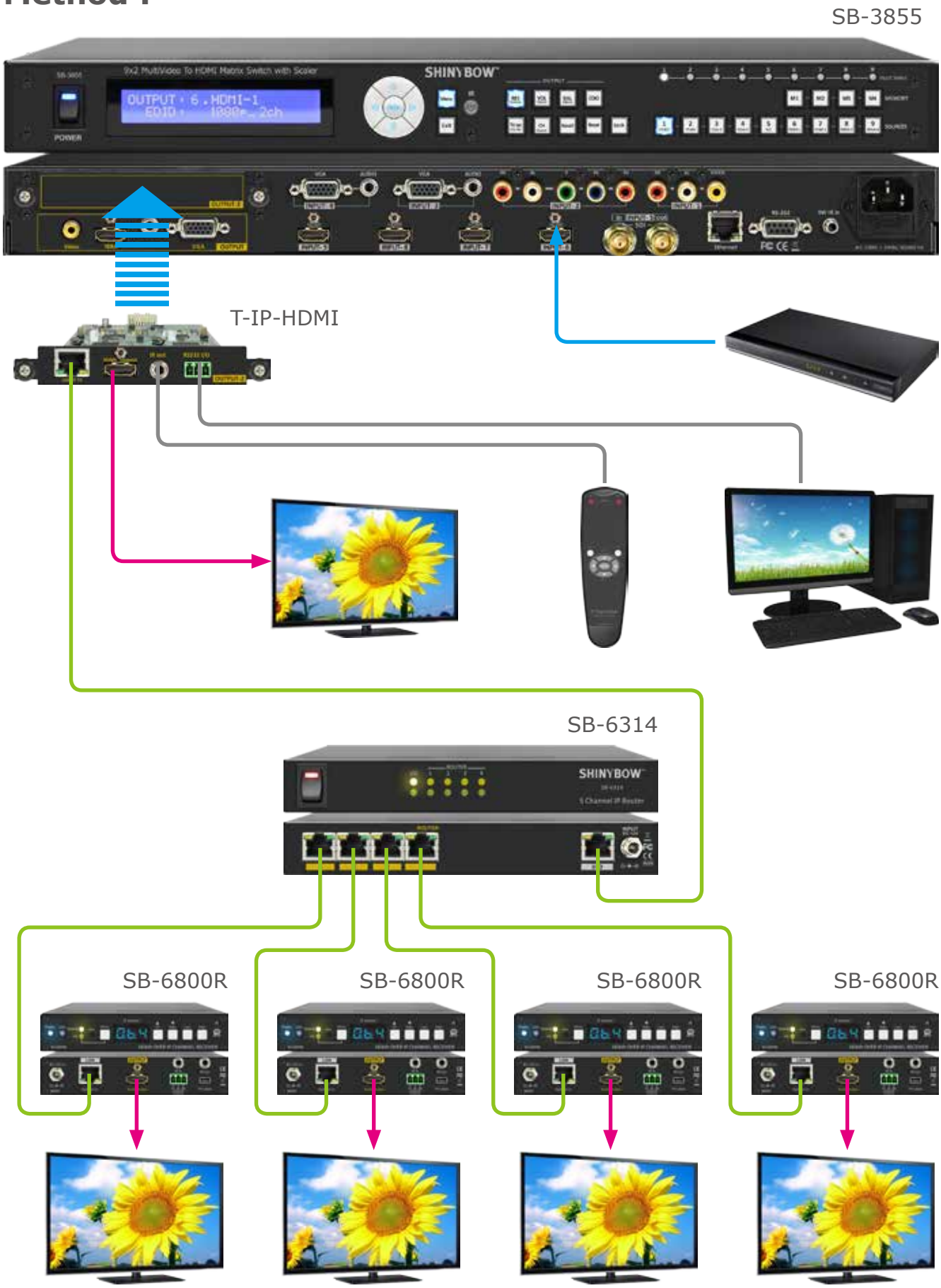
Method :



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SB-3691

2x1 HDMI PiP PoP Box

Input : 2x HDMI
Output : 1x HDMI, 1x S/PDIF, 1x Audio

PRO HDMI SCALER

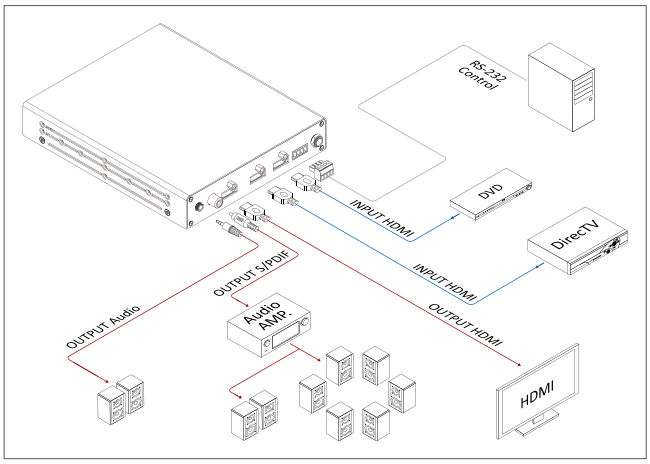
01

Ear Rack :
#WM-1INCH-130MM

INTRODUCTION

The SB-3691 is the professional 2x1 HDMI™ PiP PoP Scaler Switcher. Supporting two(2) HDMI™ inputs and one(1) HDMI™ output with Picture in Picture(PiP) and Picture of Picture(PoP) that can be easily configured and controlled. Support video resolution up to 1080p with a signal bandwidth of 165MHz, data rate up to 4.95Gbps, there is no signal degradation. The switcher is being fully HDMI™ 1.3 and HDCP 1.2 compliant, with CE and FCC certification. Zoom management can be selected between 5 modes. Input resolutions can be scaling up to 1080p and scaling down to 480p. Support menu for controlling brightness, contrast and saturation. Control is provided via Front panel push buttons or IR remote and RS-232. The windows-based control software package is included to provide complete control of the SB-3691 from a PC.

DIAGRAM TYPICAL



FEATURES

01. 2x HDMI input and 1xHDMI output Scaler Box
02. Support Picture in Picture(PiP) and Picture of Picture(PoP)
03. Link speeds up to 4.95Gbps(link clock rate of 165MHz)
04. Support HDMI 1.3 and HDCP 1.2 compliant
05. Zoom management can be selected between 5 modes
06. Ditial Video TMDS formats Resolution up to 1080p with Deep color 36bit
07. Support menu for controlling brightness, contrast and saturation.
08. Scaler supports :
    - Scaling down to 480p
    - Scaling up to 1080p
09. Audio output support PCM 2ch
10. HDMI Cable Distance 1080p-60Hz up to 98feet(30M)
11. Various User Interface controls : Front Panel push button, IR and RS-232
12. Support Universal power adaptro, Power input AC100V~AC240V, 50/60Hz

SPECIFICATIONS

Type of Switcher	2xHDMI input and 1xHDMI output Scaler Box
HDMI Support	HDMI 1080P-@60Hz, H36-bit Deep color
HDCP / HDMI Support	HDCP 1.2 Compliant, HDMI 1.3 version
Video Bandwidth	Double Data Rates: 165Mhz, Total 4.95Gbps bandwidth
Digital Video Support	HD:480i/ 480p/ 720p and up to 1080i/p
Input	2x HDMI (HDMI or DVI digital source)
Output	1x HDMI (To Destination)
Switch Controls	1x Select & Function buttons on front panel 1x IR Remote Controller (switch control) 1x RS-232
Scaling mode	Scaler down to 480p Scaler up to 1080p
HDMI Signal Booster	Distance 1080p Cable 98 feet (30M)
Infrared Frequency	38 Khz
Firmware Update	Firmware update via RS-232
HDMI I/O Connector	HDMI Type A - SMD 19pin Female Type
Temperature	Operating Temperature 32°F - 100 °F (0°C - 32°C)
Wall Mount	1 inch High Wall Mount pairs (P/N: WM-1INCH-80mm)
Dimension (WxDxH)	6.69" x 5.71" x 1.14" (170 x 145 x 29mm)
Power Supply	DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply)
Safety Approvals	CE, FCC, REACH
Weight	0.677 Kg / 1.5 lb

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SB-3693

8:2 HDMI-VGA Quad-PiP-PoP Selector Switch Scaler

VGA | MATRIX | RS-232 | PRO

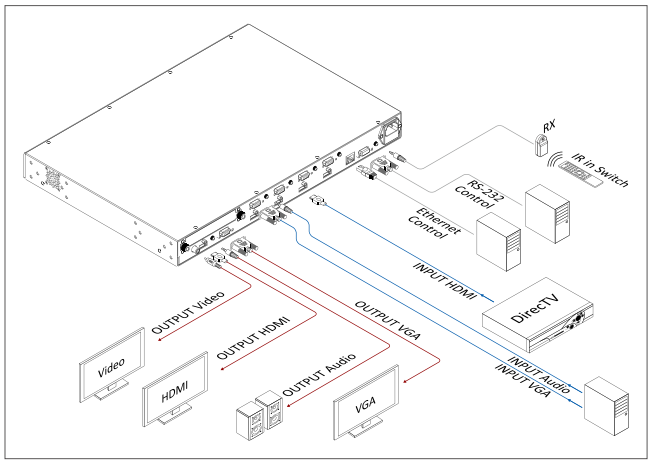
Input : 4x HDMI, 4x VGA / Audio
Output : 1x HDMI, 1x VGA / Audio, 1x Composite Video
Six(6) modules : HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX (Page 01-01)

Ear Rack : 1U-440L

INTRODUCTION

The SB-3693 is the professional 8:2 HDMI™/VGA Quad-PiP-PoP Selector Switch Scaler. Supporting four(4) HDMI™, (4)VGA/Audio inputs and one (1) HDMI™, (1)VGA, (1)Composite Video and (1)Audio output with Switch, Quad, Picture in Picture(PiP) and Picture of Picture(PoP) features that can be easily configured and controlled. Support video resolution up to 1080p with a signal bandwidth of 165MHz(1920x1200) and data rate up to 4.95Gbps with no signal degradation. The SB-3693 is HDMI™ 1.3 and HDCP 1.2 compliant, with CE and FCC certifications. Zoom management can be selected between 5 levels. Input resolutions can be scaled up to 1080p or down to 480p. EQ Audio output for Audio Equalizer Treble, Surround, Flat, Classic, Rock, Pops, Jazz, 3D and Bass. Support control function key as Resolution, EDID, Recall, Memory, Volume, Balance, Mute(HDMI audio), A/V(Audio Breakaway) and Modular second output. Six modular boards as the HDMI Scaler, HDBaseT(HDMI over HDBaseT), Coax. (BNC), IP channel(HDMI over ethernet IP channel) , SDI, Fiber and HDMI-VGA. Control is provided via Front panel push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS232 Windows GUI interface is provided for matrix routing control (Windows only).

DIAGRAM TYPICAL



FEATURES

01. (4)x HDM and (4)x VGA inputs and (1)x HDMI / VGA / VIDEO / Audio with Modular output Selector switch Scaler
02. Support Switch, 4xQuad, PiP (Picture in Picture) and PoP (Picture of Picture)
03. Link speeds up to 4.95Gbps (link clock rate of 165MHz), HDMI 1.3 and HDCP 1.2 compliant
04. Digital Video TMDS formats Resolution up to 1080p with Deep color 36bit
05. Input supports : (4)x HDMI, (4)xVGA, Audio (480i/p to 1080p)
06. Output supports : (1)x HDMI 1080P-60Hz
    (1)x VGA
    (1)x Composite Video (NTSC/ PAL/ PAL-M/ PAL-Nc)
    (1)x Stereo audio (AR/AL). Audio output support PCM 2ch
07. External second Output : (1)x Modular type
08. Zoom management can be selected between 5 levels
09. Audio Breakaway function to select Video source and another port Audio source
10. Support Audio Volume and Balance(0~100 levels) control unction.
11. Support memory location up to (8) address H1,H2,H3,H4,V1,V2,V3,V4
12. Mute function to mute HDMI Audio output
13. Audio Equalizer 1. By Pass, 2. Treble, 3. Surround, 4. Flat, 5. Classic, 6. Rock, 7. Pops, 8. Jazz, 9. With 3D, 10. With Bass
14. (16) Control Buttons : SW1 / SW2 / PiP / PoP / AV / Menu / Enter / Resolution / Lock / Reset / Mute / Zoom / Up / Down / Right / Left
15. Support Audio Breakaway function to output different audio source
16. Scaling supports : - Scaling down to 480p
    - Scaling up to 1080p
17. HDMI Cable Distance 1080p-60Hz up to 98feet(30M)
18. Provide IR remote control Frequency (38KHz)
19. Various User Interface controls :
    - Windows based GUI via RS232 interface control driver for 2000/XP/ WIN7-32/WIN7-64/WIN8
    - Front Panel push button
    - IR wireless remote controller
    - Ethernet Switch control
    - Third party RS232 controller (via simple ASCII)
20. Power supply Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Type of Switcher :	4xHDMI, 4xVGA input and 1xHDMI, VGA and Audio output Selector Switch Scaler Box
Function Modes:	Switch, 4x Quad, PiP & PoP
HDMI Support :	HDMI 1080P-@60Hz, H36-bit Deep color
HDCP / HDMI Support :	HDCP 1.2 Compliant, HDMI 1.3 version
Video Bandwidth :	Double Data Rates:165Mhz, Total 4.95Gbps bandwidth
Scaling Video Support :	HD:480i/ 480p/ 720p and up to 1080i/p
Input :	4x HDMI, 4xVGA (HDMI or DVI digital source)
Output :	1x HDMI, VGA, Composie Video (NTSC/PAL)
External second output:	1x Modular type
PiP Zoom Type :	5x zoom Sizes
Audio Breakaway:	Output support select different Video or Audio source function
Recall-Memory :	Memory location 8 address : H1, H2, H3, H4, V1, V2, V3, V4 source select buttons
Mute Audio:	To mute the HDMI audio output
Audio Equalizer :	1. By Pass, 2. Treble, 3. Surround, 4. Flat, 5. Classic, 6. Rock, 7. Pops, 8. Jazz, 9. With 3D, 10. With Bass
Switch Controls :	1x Select & Function buttons on front panel 1x IR Remote Controller (switch control) 1x Ethernet 1x RS232
HDMI Signal Booster :	Distance 1080p Cable 98 feet (30M)
Infrared Frequency:	38 Khz
Firmware Update :	Firmware update via RS-232
HDMI I/O Connector :	HDMI Type A - SMD 19pin Female Type
Temperature :	Operating Temperature 32°F - 100°F (0°C - 32°C)
Rack Mount :	19 inch 1U High Rack Mount braket (P/N:1U-440L)
Dimension (WxDxH)	18.98" x 11.81" x 1.73" (482mm x 300mm x 44mm)
Power Supply	DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply)
Safety Approvals	CE, FCC, REACH
Weight	2.36 Kg / 5.19 lb

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SB-3880

HDMI SCALER BOX

Input : 1x HDMI, 1xStereo Audio
Output : 1x HDMI, 1xS/PDIF, 1xStereo Audio

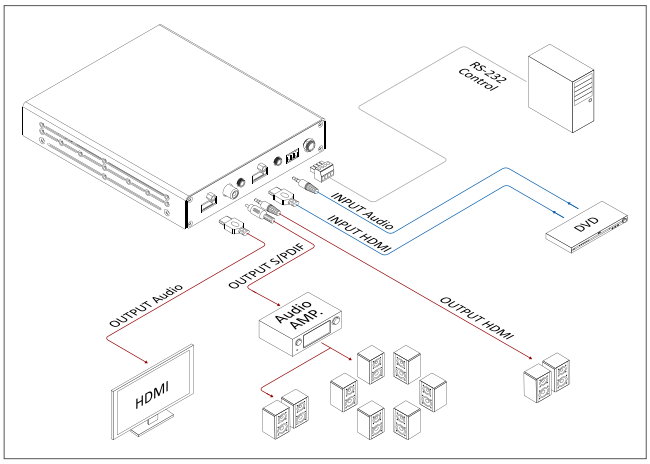
HDMI SCALER

Ear Rack :
#WM-1INCH-130MM

INTRODUCTION

The SB-3880 is a high performance video graphics scaler supporting one (1) HDMI™, DVI-Audio and one(1)HDMI™, S/PDIF, Stereo audio output. ALL Output ports are active simultaneously. This scaler supports HDMI™ 1.3 formats and HDCP 1.2 Compliant. Support video resolution up to 1080p with a signal bandwidth of 165MHz, data rate up to 4.95Gbps. The SB-3880 Auto-detects the Input video and stereo audio input can be embedded to HDMI™ when the input is DVI signal. The scaler supports full HDTV resolution 480i/p, 576i/P, 720p or 1080i/p-60Hz formats, higher DVI resolution up to 1920x1200 . Built in video will control function to over lap and assign location. Support menu for controlling brightness, contrast and saturation. Control is provided via front panel buttons with LED display, RS232 or wireless IR remote control.

DIAGRAM TYPICAL



FEATURES

01. HDMI, Audio to HDMI, S/PDIF and Stereo Audio Scaler
02. Inputs: 1x HDMI, 1xStereo Audio
03. Outputs: 1x HDMI, 1xS/PDIF, 1xStereo Audio
04. Support HDMI 1.3, HDCP 1.2 Compliant
05. Supports full HDTV resolution 480i/p, 576i/P, 720p or 1080i/p-60Hz formats, DVI resolution up to 1920x1200
06. Stereo audio input can be embedded to HDMI when the input is DVI signal
07. Built in video will control function to over lap and assign location
08. Support menu for controlling brightness, contrast and saturation
09. Provide IR remote control (38KHz)
10. Various User Interface control :
    - Front Panel push button
    - IR wireless remote control
    - RS-232 interface control driver for 95/98/2000/xp/7/8
11. Power supply DC12Volt, Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Type of Scaler	HDMI, Audio to HDMI, S/PDIF and Stereo Audio Scaler
Video Input Signal	1x HDMI
Audio Inputs	1x Stereo Audio
Video Output Signal	1x HDMI
Audio Outputs	1x S/PDIF, 1x Stereo
HDMI/HDCP Support	HDMI 1.3 Receiver & Trasnmitter, compliant with HDCP 1.2
Video Bandwith	Double Data Rates: 165Mhz, Total 4.95Gbps bandwidth
Input Resolution	Up to 1080i/p-60Hz and 1920x1200
Output Resolution	Up to 1080i/p-60Hz and 1920x1200
HDMI Cable Distance	Max. 15 meters (~49 feet), depending on cable quality
Infrared Frequency	38KHz
Chassis Material	Metal
Switch Control	1x Select & Function buttons on front panel 1x IR Remote Controller (switch control) 1x RS-232
Dimension (WxDxH)	6.69" x 5.71" x 1.14" (170 x 145 x 29mm)
Power Supply	Input 100 ~ 240 VAC, 50/60 Hz Output DC 12V, 2A
Safety Approvals	CE, FCC
Temperature	32°F - 100 °F (0°C - 32°C)
Weight	0.677 Kg / 1.5 lb

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SB-3688

Video To HDMI Scaler Switcher

Input : 1x Video / Audio, 1x S-Video / Audio
Output : 1x VGA / Audio, 1x HDMI / S/PDIF, 1x Video / Audio

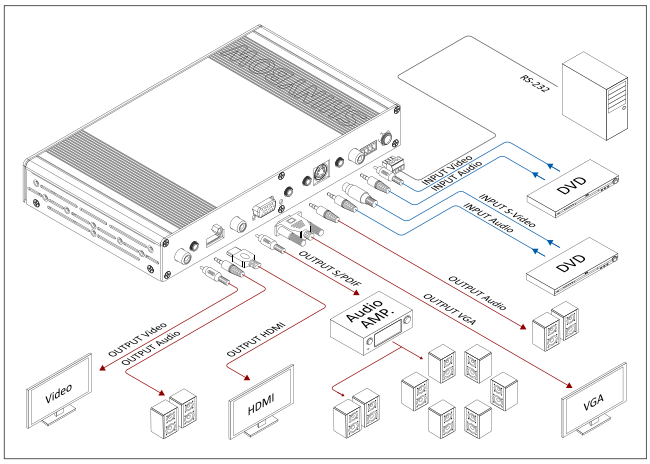
PRO VGA HDMI SCALER S-VIDEO VIDEO

Ear Rack :
#WM-1INCH-130MM

INTRODUCTION

The SB-3688 is a high performance video graphics scaler supporting two (2) different video Input signal types including 1xComposite Video with Audio, 1x S-Video with Audio and one(1) output including 1x HDMI™ with S/PDIF Audio, 1x VGA with Audio and 1xComposite Video with Audio. ALL Output ports are active simultaneously. This scaler supports HDMI™ 1.3 formats and HDCP 1.2 Compliant. The SB-3690A Auto-detects the Input video standard in the form of NTSC,PAL and SECAM systems and converts to High Definition RGB digital HD signal. The scaler supports full HDTV resolution 480i/p, 576i/P, 720p or 1080i/p-60Hz formats, higher DVI resolution up to 1920x1200 . Zoom management can be selected between 5 modes. Input resolutions can be scaling up to 1080p and scaling down to 480p. Support menu for controlling brightness, contrast and saturation. Control is provided via front panel buttons with LED display, RS-232 or wireless IR remote control.

DIAGRAM TYPICAL



FEATURES

01. Composite Video / S-Video To HDMI , VGA and Composite Video Scaler
02. Inputs: 1x Composite Video with Audio, 1x S-Video with Audio
03. Outputs: 1x HDMI with S/PDIF, 1xVGA with Audio, 1x Composite Video with Audio
04. HDMI Video Scaler Support HDMI 1.3, HDCP 1.2 Compliant.
05. Support VGA output resolution VGA 640x480, SVGA 800x600, XGA 1024x768, WUXGA 1920x1200
06. Support Multi-TV Video Standard System Inputs and Outputs: NTSC3.58, NTSC-J, PAL, PAL-N, PAL-N Com-n, PAL-M, PAL60
07. Support menu for controlling brightness, contrast and saturation.
08. Zoom management can be selected between 5 modes
09. Provide IR remote control (38KHz).
10. Various User Interface control:
    - Front Panel push button
    - IR wireless remote control
    - RS 232 interface control driver for 95/98/2000/xp
11. Power supply DC12Volt, Universal Type switch 100~240VAC, 50/60Hz.

SPECIFICATIONS

Type of Converter	Composite Video / S-Video To HDMI , VGA and Composite Video Scaler
Video Input Signal	1x Composite Video, 1x S-Video
Audio Inputs	1x Stereo Audio (Composite), 1x Stereo Audio (S-Video)
Video Output Signal	1x Composite Video, 1x VGA and 1x HDMI
Audio Outputs	2x Stereo Audio(PCM-2ch), 1x S/PDIF
HDMI/HDCP Support	HDMI 1.3 Receiver & Trasnmitter, compliant with HDCP 1.2
Video Color Subcarrier Frequency	NTSC-3.58 / NTSC-J 4.43 / PAL-4.433619 / PAL-M 3.575611 / PAL-N 3.582056 Mhz / PAL-60, 0.5 V-pp~2V-pp,75 Ohms
VGA Resolutions	VGA(640x480), SVGA(800x600), XGA(1024x768), Maximum WUXGA(1920x1200)
PAL/NTSC line Conversion	Composite Video 525 / 625Lines
PAL/NTSC Field Conversion	Composite 50 / 60 Hz Fields
Output Scaler	HDMI up to 1080p-60 and PC up to WXGA 1920x1200
Source Status	Automatic scanning of input/output status
HDMI Cable Distance	Max. 15 meters (~49 feet), depending on cable quality
Infrared Frequency	38KHz
Chassis Material	Metal
Control	Front Panel, IR, RS-232
Dimension (WxDxH)	8.66" x 5.04" x 1.3" (220mm x 128mm x 33mm)
Power Supply	Input 100 ~ 240 VAC, 50/60 Hz Output DC 12V, 2A
Safety Approvals	CE, FCC
Temperature	32°F - 100°F (0°C - 32°C)
Weight	1 kg / 2.2 lb

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SB-3685

Video To HDMI Scaler Switcher

Input : 1x Video, 1x S-Video
Output : 1x VGA, 1x HDMI, 1x Video

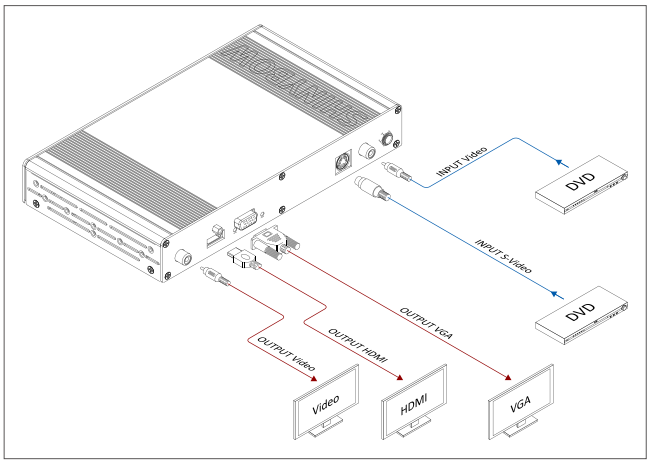
PRO VGA HDMI SCALER S-VIDEO VIDEO

Ear Rack :
#WM-1INCH-130MM

INTRODUCTION

The SB-3685 is a high performance video graphics scaler supporting two (2) different video Input signal types including 1xComposite Video , 1xS-Video and one(1) output including 1x HDMI™ , VGA and 1xComposite Video. ALL Output ports are active simultaneously. This scaler supports HDMI™ 1.3 formats and HDCP 1.2 Compliant. The SB-3685 Auto-detects the Input video standard in the form of NTSC,PAL and SECAM systems and converts to High Definition RGB digital HD signal. The scaler supports full HDTV resolution 480i/p, 576i/P, 720p or 1080i/p-60Hz formats, higher DVI resolution up to 1920x1200. Zoom management can be selected between 5 modes. Input resolutions can be scaling up to 1080p and scaling down to 480p. Support menu for controlling brightness, contrast and saturation. Control is provided via front panel buttons with LED display and wireless IR remote control.

DIAGRAM TYPICAL



FEATURES

01. Composite Video / S-Video To HDMI, VGA and Composite Video Scaler
02. Inputs : 1x Composite Video, 1x S-Video
03. Outputs : 1x HDMI, 1xVGA, 1x Composite Video
04. HDMI Video Scaler Support HDMI 1.3, HDCP 1.2 Compliant
05. Support VGA output resolution VGA 640x480, SVGA 800x600, XGA 1024x768, WUXGA 1920x1200
06. Support Multi-TV Video Standard System Inputs and Outputs : NTSC3.58, NTSC-J, PAL, PAL-N, PAL-N Com-n, PAL-M, PAL60
07. Support menu for controlling brightness, contrast and saturation
08. Zoom management can be selected between 5 modes
09. Provide IR remote control (38KHz)
10. Various User Interface control :
    - Front Panel push button
    - IR wireless remote control
11. Power supply DC12Volt, Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Type of Converter	Composite Video / S-Video To HDMI, VGA and Composite Video Scaler
Video Input Signal	1x Composite Video, 1x S-Video
Video Output Signal	1x Composite Video, 1x VGA and 1x HDMI
HDMI/HDCP Support	HDMI 1.3 Receiver & Trasnmitter, compliant with HDCP 1.2
Video Color Subcarrier Frequency	NTSC-3.58 / NTSC-J 4.43 / PAL-4.433619 / PAL-M 3.575611 / PAL-N 3.582056 Mhz / PAL-60, 0.5 V-pp~2V-pp,75 Ohms
VGA Resolutions	VGA(640x480), SVGA(800x600), XGA(1024x768), Maximum WUXGA(1920x1200)
PAL/NTSC line Conversion	Composite Video 525 / 625Lines
PAL/NTSC Field Conversion	Composite 50 / 60 Hz Fields
Output Scaler	HDMI up to 1080p-60 and PC up to WXGA 1920x1200
Source Status	Automatic scanning of input/output status
HDMI Cable Distance	Max. 15 meters (~49 feet), depending on cable quality
Infrared Frequency	38KHz
Chassis Material	Metal
Control	Front Panel, IR, RS-232
Dimension (WxDxH)	8.66" x 5.04" x 1.3" (220mm x 128mm x 33mm)
Power Supply	Input 100 ~ 240 VAC, 50/60 Hz Output DC 12V, 2A
Safety Approvals	CE, FCC
Temperature	32°F - 100°F (0°C - 32°C)
Weight	1 kg / 2.2 lb

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SB-3686A

NTSC · PAL To NTSC · PAL · VGA · HDMI Digital Converter

Input : 1x Video, 1x Component Video, 1x VGA, 1x HDMI
Output : 1x Video, 1x VGA, 1x HDMI

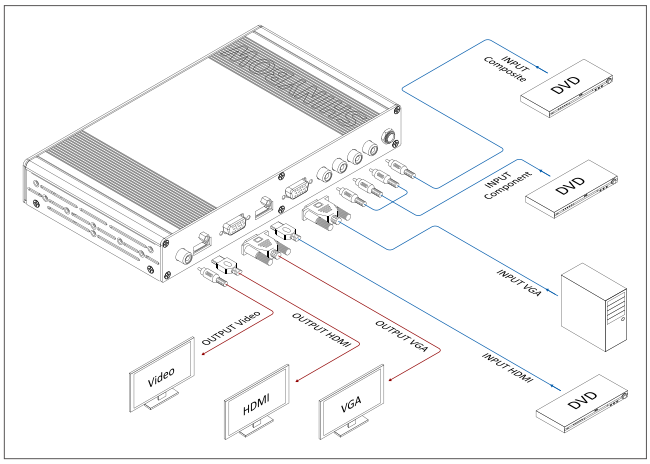
PRO | VGA | HDMI | SCALER | COMPONENT | VIDEO

Ear Rack :
#WM-1INCH-130MM

INTRODUCTION

The SB-3686A is a high performance video graphics scaler supporting four (4) different video Input signal types including 1xComposite Video, 1x Component Video, 1x VGA and 1x HDMI™. The available Output ports 1x HDMI™, 1x Composite Video and 1x VGA. ALL Output ports are active simultaneously. This scaler supports HDMI™ 1.3 formats and is HDCP 1.2 Compliant.
The SB-3686A Auto-detects the Input video standard in the form of NTSC,PAL and SECAM systems and converts to High Definition RGB digital HD signal. The scaler supports full HDTV resolution 480i/p, 576i/P, 720p or 1080i/p-60Hz formats, higher DVI resolution up to 1920x1200. Zoom management can be selected between 5 modes. Input resolutions can be scaling up to 1080p and scaling down to 480p. Support menu for controlling brightness, contrast and saturation. Control is provided via front panel buttons with LED display, RS-232 or wireless IR remote control (included).

DIAGRAM TYPICAL



FEATURES

01. Multi-Video Input from Video/Comp./VGA/HDMI To Video/VGA/HDMI Digital Scaler
02. Inputs: 1x Composite Video, 1x Component Video (YPBPR), 1x VGA and 1x HDMI
03. Outputs: 1x Composite Video, 1x VGA(XGA to WUXGA) and 1x HDMI
04. HDMI Video Scaler Support HDMI 1.3, HDMI V1.3 Transmitter & Receiver, HDMI 1.3, DVI 1.0, HDCP 1.2 Compliant
05. Support High VGA resolution Inputs and Outputs :
    VGA 640x480, SVGA 800x600, XGA 1024x768, WUXGA 1920x1200 (Maximum)
06. Support Multi-TV Video Standard System Inputs and Outputs:
    NTSC3.58, NTSC-J, PAL, PAL-N, PAL-N Com-n, PAL-M, PAL60
07. Input resolution Maximum 1080i 1920x1080 (only in Component Video)
08. Support menu for controlling brightness, contrast and saturation
09. Zoom management can be selected between 5 modes
10. Provide IR remote control (38KHz)
11. Various User Interface control :
    - Front Panel push button
    - IR wireless remote control
12. Power supply DC12Volt, Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Type of Converter	4 in 3 out HDMI MultiVideo Scaler Converter
Video Input Signal	1x Composite Video, 1x Component (YPBPR), 1x VGA (RGBHV) and 1x HDMI
Video Output Signal	1x Composite Video, 1x VGA and 1x HDMI
HDMI/HDCP Support	HDMI 1.3 Receiver & Trasnmitter, compliant with HDCP 1.2
Video Color Subcarrier Frequency	NTSC-3.58 / NTSC-J 4.43 / PAL-4.433619 / PAL-M 3.575611 / PAL-N 3.582056 Mhz / PAL-60, 0.5 V-pp~2V-pp,75 Ohms
VGA Resolutions	VGA(640x480), SVGA(800x600), XGA(1024x768), Maximum WUXGA(1920x1200)
PAL/NTSC line Conversion	Composite Video 525 / 625Lines
PAL/NTSC Field Conversion	Composite 50 / 60 Hz Fields
Input Resolution	Component Video input Maximum 1080i-60 1920x1080
Output Scaler	HDMI up to 1080p-60 and PC up to WXGA 1920x1200
Source Status	Automatic scanning of input/output status
HDMI Cable Distance	Max. 15 meters (~49 feet), depending on cable quality
Infrared Frequency	38KHz
Chassis Material	Metal
Control	IR remote control, front panel push buttons
Dimension (WxDxH)	8.66" x 5.04" x 1.3" (220mm x 128mm x 33mm)
Power Supply	Input 100 ~ 240 VAC, 50/60 Hz Output DC 12V, 2A
Safety Approvals	CE, FCC
Temperature	32°F - 100°F (0°C - 32°C)
Weight	1 kg / 2.2 lb

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SB-3690A

Multi-Video Converter

Input : 1x Composite Video / Audio, 1x Component Video / Audio, 1x VGA / Audio, 1x HDMI
Output : 1x VGA / Audio, 1x HDMI / S/PDIF, 1x Video / Audio

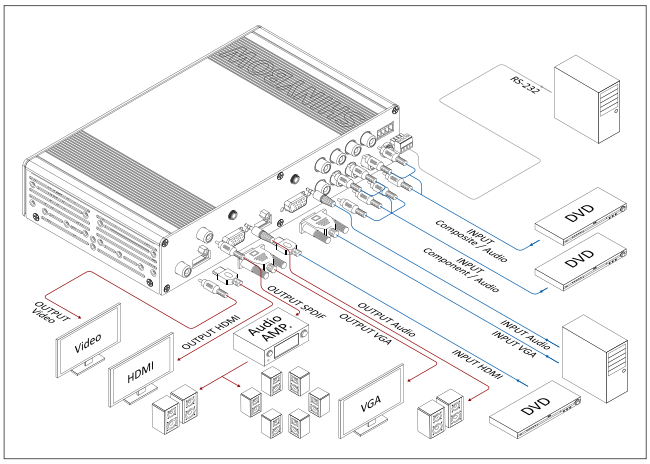
SCALER VIDEO PRO VGA HDMI COMPONENT COMPOSITE

Ear Rack :
#WM-1INCH-130MM

INTRODUCTION

The SB-3690A is a high performance video graphics scaler supporting four (4) different video Input signal types including 1xComposite Video with Audio, 1x Component Video with Audio, 1x VGA with Audio and 1x HDMI™. The available Output ports 1x HDMI™, 1x Composite Video and 1x VGA. ALL Output ports are active simultaneously. This scaler supports HDMI™ 1.3 formats and is HDCP 1.2 Compliant. The SB-3690A Auto-detects the Input video standard in the form of NTSC,PAL and SECAM systems and converts to High Definition RGB digital HD signal. The scaler supports full HDTV resolution 480i/p, 576i/P, 720p or 1080i/p-60Hz formats, higher DVI resolution up to 1920x1200. Zoom management can be selected between 5 modes. Input resolutions can be scaling up to 1080p and scaling down to 480p. Support menu for controlling brightness, contrast and saturation. Control is provided via front panel buttons with LED display, RS-232 or wireless IR remote control (included).

DIAGRAM TYPICAL



FEATURES

01. Multi-Video Input from Video/Comp./VGA/HDMI To Video/VGA/HDMI Digital Scaler
02. Inputs: 1x Composite Video, 1x Component Video (YPBPR), 1x VGA and 1x HDMI
03. Outputs: 1x Composite Video, 1x VGA(XGA to WUXGA) and 1x HDMI
04. HDMI Video Scaler Support HDMI 1.3, HDCP 1.2 Compliant.
05. Support High VGA resolution Inputs and Outputs :
    VGA 640x480, SVGA 800x600, XGA 1024x768, WUXGA 1920x1200 (Maximum)
06. Support Multi-TV Video Standard System Inputs and Outputs :
    NTSC3.58, NTSC-J, PAL, PAL-N, PAL-N Com-n, PAL-M, PAL60
07. Input resolution Maximum 1080i 1920x1080 (only in Component Video)
08. Support menu for controlling brightness, contrast and saturation.
09. Zoom management can be selected between 5 modes
10. Provide IR remote control (38KHz)
11. Various User Interface control:
    - Front Panel push button
    - IR wireless remote control
    - RS 232 interface control driver for 95/98/2000/xp
12. Power supply DC12Volt, Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Type of Converter	4 in 3 out HDMI MultiVideo Scaler Converter
Video Input Signal	1x Composite Video, 1x Component (YPBPR), 1x VGA (RGBHV) and 1x HDMI
Audio Inputs	1x Stereo Audio (Video), 1x Stereo Audio (Comp.) and 1x Stereo Audio (VGA)
Video Output Signal	1x Composite Video, 1x VGA and 1x HDMI
Audio Outputs	1x Stereo Audio(PCM-2ch), 1x S/PDIF
HDMI/HDCP Support	HDMI 1.3 Receiver & Trasnmitter, compliant with HDCP 1.2
Video Color Subcarrier Frequency	NTSC-3.58 / NTSC-J 4.43 / PAL-4.433619 / PAL-M 3.575611 / PAL-N 3.582056 Mhz / PAL-60, 0.5 V-pp~2V-pp,75 Ohms
VGA Resolutions	VGA(640x480), SVGA(800x600), XGA(1024x768), Maximum WUXGA(1920x1200)
PAL/NTSC line Conversion	Composite Video 525 / 625Lines
PAL/NTSC Field Conversion	Composite 50 / 60 Hz Fields
Input Resolution	Component Video input Maximum 1080i-60 1920x1080
Output Scaler	HDMI up to 1080p-60 and PC up to WXGA 1920x1200
Source Status	Automatic scanning of input/output status
HDMI Cable Distance	Max. 15 meters (~49 feet), depending on cable quality
Infrared Frequency	38KHz
Chassis Material	Metal
Control	Front Panel, IR and RS-232
Dimension (WxDxH)	8.66" x 5.04" x 1.73" (220mm x 128mm x 44mm)
Power Supply	Input 100~240 VAC, 50/60 Hz Output DC 12V, 2A
Safety Approvals	CE, FCC
Temperature	32°F - 100°F (0°C - 32°C)
Weight	1 kg / 2.2 lb

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SB-3879

HDMI VIDEO SCALER

PRO VIDEO

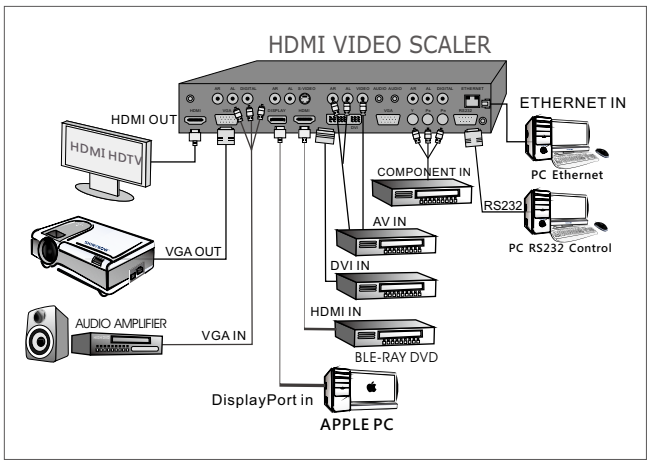
Input : 1x Component Video / Stereo Audio, 1x Composite Video / Stereo Audio,
1x S-Video / Stereo Audio, 1x VGA / Audio, 1x DVI / Audio, 1x HDMI, 1x Display Port
Output : 1x HDMI, 1x VGA, 1x S/PDIF, 1x Stereo Audio

Ear Rack : 1U-300L

INTRODUCTION

The SB-3879 is a professional high performance video graphics scaler supporting seven (7) different inputs and output signal, HDMI™, VGA and S/PDIF & Stereo Audio. The Inputs are comprised of 1x Composite Video & Audio, 1x S-Video & Audio, 1x Component Video & Audio, 1x VGA & Audio, 1x DVI & Audio, 1x DisplayPort and 1x HDMI™. The available output ports are 1x HDMI™, 1xVGA, 1x S/PDIF and 1x Stereo Audio. This scaler supports S-Video with 3D comb filter, HDMI™ 3D 1.4a formats, HDCP 1.3 Compliant. It is able to auto detects the video standard format of input signal from NTSC / PAL / SECAM system, and convert to high definition RGB digital HD signal. The scaler supports full HDTV resolution data rates enabling 480i/p, 576i/P, 720p or 1080i/p formats, higher DVI resolution (1920x1200), HDMI™ 1080p-60, DP (2550x1600) which is ideally for high definition 3D TV, HDTV, Plasma display or monitor applications. Control is provided via front panel buttons, RS-232, Ethernet, or IR remote control (included). A RS-232 interface is provided for interfacing with third party controller. The windows-based control software package is included to provide complete control of the SB-3879 from a PC.

DIAGRAM TYPICAL



FEATURES

01. HDMI Video Scaler Support HDMI 1.4a 3D formats, HDMI V1.4 Transmitter & Receiver, HDMI 1.4, DVI 1.0, HDCP 1.3 Compliant
02. Wide range scales HD resolutions any PC (XGA to WUXGA) and HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i & 1080p from Any analog video, S-Video(Y/C), Component Video (YPBPR), PC VGA, DVI, HDMI or Display Port resolutions
03. Input port Composite Video, S-Video(Y/C), Component Video(YPBPR) 480i/p, 576i/p, 720p, 1080i/p , DVI (1920x1200), HDMI 1080p-60, Display Port (2560x1600)
04. Output Support PC VGA (XGA to WUXGA) and HDMI 1080P-60 with Deep color 36-bit., Digital Audio support S/PDIF and Stereo Audio outputs
05. Input resolution up to 1080p, 1920x1080, 1920x1200 and 2560x1600 (only in DP)
06. Bypass XGA & 720P 120Hz 3D signal for DLP link 3D ready projector for active 3D display. and audio receivers/amplifiers
07. Advanced 3D de-interlace, smooth edge algorithm and 3:2/2:2 film mode processing
08. Support 3D formats: Frame packing, side by side and top/bottom signal types
09. Support full HD @24Hz full HD 3D signal with special algorithm for RH/LH synchronization
10. Support intelligent color adjustment (Discrete RGB color adjustment, Hue, saturation, sharpness, contrast, brightness and (4) preset color modes)
11. OSD (on screen display) for menu color, resolution and input source selections
12. Various User Interface control :
    - Windows based GUI control via RS-232 port
    - Front Panel push button
    - IR wireless remote control
    - Ethernet with built-in web browser
    - Third party RS-232 controller (via simple ASCII)
13. Support IR Remote and IR Extender with cable distance up to ~ 1000' (300M) Maximum
14. Desktop with optional 19 inch Rack mount (included)
15. Power supply DC12Volt, Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Scaler Type	7 in 2 out HDMI Video Scaler
Video Input Signal	1x Composite / 1x S-Video / 1x Component / 1x VGA / 1x DVI / 1x HDMI / 1x DP
Audio Input Signal	Digital Audio (PCM), Stereo Audio
Video Output Signal	1x RGB, 1x HDMI
Audio Output Signal	1x S/PDIF Digital Audio, 1x Analog Audio RH/LH, 1x HDMI Audio
3D Support	3D Video Format in HDMI 1.4a (225MHz)
Input Resolution	7.Input Resolution : Up to 1080p-60, 1920x1200, and DP 2560x1600
Output Resolution	Up to 1080p-60 and 1920x1200
Source Status	Automatic scanning of input/output status
HDCP Support	DVI / HDMI / Display Port, compliant with HDCP 1.3
HDMI Compliance	HDMI 1.4a receiver and transmitter
HDMI Cable Distance	Max. 15 meters (~49 feet), depending on cable quality
Infrared Frequency	38KHz
Chassis Material	Metal
IR Extend Distance	300 meters (~1000 feet) line cable via IR extender
Control	IR remote control, RS-232, front panel push buttons
Dimension (WxDxH)	11.96" x 6.06" x 1.73" (304mm x 154mm x 44mm)
Rack Mount	19-inch panel type (1U-44L)
Power Supply	Input 100 ~ 240 VAC, 50/60 Hz Output DC 12V, 3A
Safety Approvals	CE, FCC, RoHS
Temperature	32°F - 100°F (0°C - 32°C)
Weight	1.4 kg / 3.09 lb

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SB-3855

9x2 Multi-Video Routing Switcher w/ Scaler

Input : 1x Composite Video / Stereo Audio (AR/AL), 1x Component Video / Stereo Audio (AR/AL), 2xVGA / Audio, 1x SDI (in/out), 4x HDMI

Output : 1x HDMI, 1x VGA / Audio, 1x Video
Six(6) modules : HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX (Page 01-01)

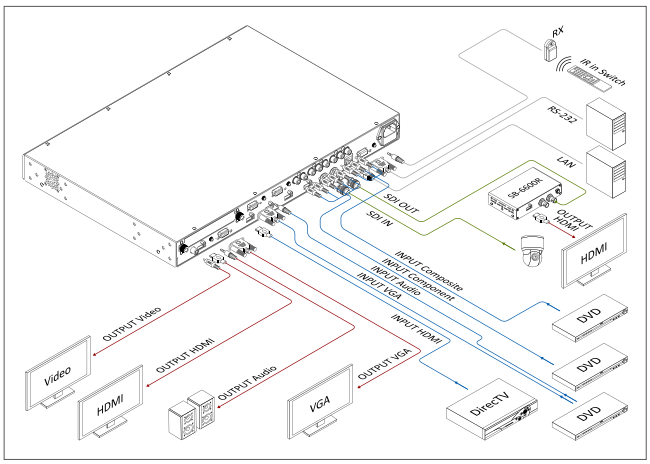
VGA | COMPONENT | VIDEO | SDI | PRO

Ear Rack : 1U-440L

INTRODUCTION

The SB-3855 is a high professional video graphics scaler supporting Nine (9) different video Input signal types including 4xHDMI™, 2xVGA+Audio, 1xSDI, 1xComposite Video Audio,1xComponent Video Audio and outputs are VGA, HDMI™ and Video. The optional of the output modules support SDI, HDBaseT™, IP and COAX. This scaler supports HDMI™ 1.3 formats and is HDCP 1.2 Compliant. The SB-3855 Auto-detects the Input video standard in the form of NTSC,PAL and SECAM systems and converts to High Definition RGB digital HD signal. The scaler supports full HDTV resolution 480i/p, 576i/P, 720p and 1080i/p-60Hz formats, higher DVI resolution (1920x1200). HDMI™ 1080p is ideal for high definition HDTV, Plasma display or other monitor applications. The volume value can be controlled when the output is stereo audio. Provide four (4) memory locations to memorize the previous different settings. The Control is provided via front panel buttons with LED display, wireless IR remote control, RS-232 and Ethernet.

DIAGRAM TYPICAL



FEATURES

01. 9x2 Multi-video To HDMI Switcher with Scaler
02. Support HDCP, DVI format and CEC/HDCP 1.2 compliant
03. Link speeds up to 4.95 Gbps (link clock rate of 165MbHz)
04. Wide range of HD output resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p
05. SDI supports:
    - 3G-SDI : 1080p at 50/59.94/60 Hz (4:2:2)
    - HD-SDI : 720p at 50/59.94/60 Hz, 1080i at 50/59.94/60 Hz
    - 1080p at 23.98/24/25/29.97/30 Hz
    - SD-SDI : NTSC at 59.94 Hz, PAL at 50 Hz
06. The volume value can be controlled when the output is stereo audio
07. Provide four(4) memory locations to memorize the previous different settings
08. Support IR remote and IR extender with cable distance up to 1000ft (300M)
09. Various User Interface control:
    - Windows based GUI control via RS-232 port
    - Front Panel push button
    - IR wireless remote control
    - Ethernet with built-in web browser
    - Third party RS-232 controller (via simple ASCII)
10. HDMI Output with Booster function, Cable Distance is up to 98 feet (30M) when at 1080p-60Hz.
11. Support Universal power input AC100V~AC240V, 50/60Hz

SPECIFICATIONS

Type of HDMI Scaler	9x2 Multivideo To HDMI Switcher with Scaler
Video Input Signal	4x HDMI, 2x VGA+Audio, 1x SDI, 1x Composite Video Audio, 1x Component Video Audio
Video Output Signal	1xHDMI, 1xVGA, 1xComposite Video
Output Model Cards	HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX
Output Support	HD resolution up to 1080P, PC resolution up to WUXGA 1920x1200
HDCP / HDMI	HDMI 1.3, HDCP 1.2 complaint
Video Bandwidth	Double Data Rates: 165Mhz, Total 4.95Gbps
SDI Support	-3G-SDI:1080p at 50/59.94/60 Hz (4:2:2) -HD-SDI:720p at 50/59.94/60 Hz, 1080i at 50/59.94/60 Hz -1080p at 23.98/24/25/29.97/30 Hz -SD-SDI:NTSC at 59.94 Hz, PAL at 50 Hz
Switch Controls	Front Panel push button, IR , RS-232 & Ethernet
Input Status	LEDs indicates presence of a live signal
HDMI Cable Length	1080p up to 98 feet (30M)
Infrared Frequency	38 Khz
Wall Mount	1 inch High Wall Mount pairs (P/N : WM-1INCH-80mm)
Dimension (WxDxH)	18.98" x 11.81" x 1.73" (482mm x 300mm x 44mm)
Power Input	AC 100~240 VAC 50/60Hz (universal Type Supply)
Safety Approvals	CE, FCC, REACH
Weight	3.5 Kg / 7.73 lb

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