



Presentation Powerhouse – The DVI-3580a is a high-performance 4K MultiViewer, Presentation Switcher and Scaler. This unit is an ideal solution for system designers and facility managers facing uncertain requirements from presenters that need AV signal distribution for a diverse range of source devices, resolutions and signal formats. The DVI-3580a overcomes these challenges through a rich array of input connections that supports all popular AV input signal formats, a range of user-selectable output resolutions and innovative MultiViewer capabilities. These features provide the power and flexibility needed to adapt to the ever-changing demands of presentation rooms, classrooms, auditoriums, conference rooms, houses of worship, and other media-rich AV environments.

Versatile Video Capabilities – This powerful presentation switcher accepts up to seven (7) video inputs: 4x HDMI (or DVI), 2x DisplayPort and 1x RGB/YPbPr Analog (VGA). The unit supports a broad range of input signal formats and resolutions up to 4K /60p. A powerful internal scaling engine provides a range of user-selectable output resolutions up to 3840x2160 /30p, as well as seamless switching⁽¹⁾ of input signals. The selected input signal is routed to two mirrored outputs, 1x HDMI and 1x HDBaseT™. The HDBaseT output is POH (Power over HDBaseT) compliant, so a compatible receiver unit may be remotely powered from the DVI-3580a unit over the HDBaseT link. The MultiViewer function can simultaneously display up to 4x video signals with resolutions up to 4K, which are displayed in seven possible layouts: Single, Double, Triple, Quad 1, Quad 2, Quad 3, or Quad 4. Any input signal can be displayed in any MultiViewer window.

Advanced Audio Routing – The DVI-3580a features audio embedding as well as de-embedded audio outputs. Each video input is coupled with an analog stereo audio input connection. The unit includes three audio outputs: HDMI / HDBaseT embedded audio, 8-channel (7.1) analog audio, and TOSLINK optical audio. User-adjustable lip-sync correction is provided.

Total Control – The DVI-3580a may be controlled via a variety of options, including LAN (built-in Web GUI or Telnet), RS-232, IR Remote Control, and Front Panel selections. The Web GUI increases ease of setup and support through many features, including powerful EDID management capabilities. This allows integrators to select a factory installed EDID, learn the EDID from a connected display, upload EDID files into 7x custom memory slots, or download EDID files from the unit. These powerful features allow the unit to be seamlessly integrated into any professional AV system.

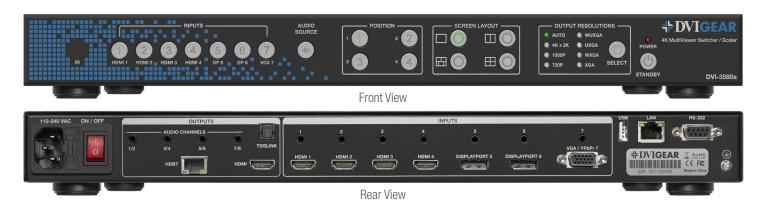
Note 1: Seamless switching is only available in Single Window Layout Mode.

FEATURES

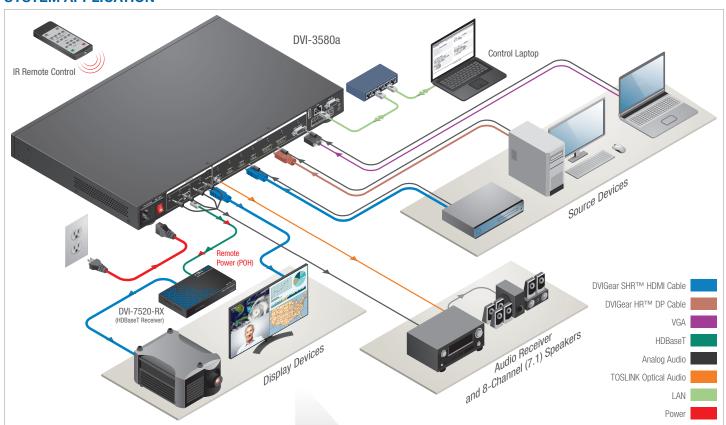
- MultiViewing of up to 4x video signals simultaneously; seven user-selectable window layouts: Single, Double, Triple, Quad 1-4
- HDMI input resolutions up to 4K /30p;
 DisplayPort input resolutions up to 4K /60p
- User-selectable output resolutions up to 3840x2160 /30p
- Includes 7x inputs: 4x HDMI (or DVI),
 2x DisplayPort, 1x RGB / YPbPr Analog (VGA)
- Seamless switching⁽¹⁾ of input signals
- HDMI and DP inputs support HDCP encryption
- 2x mirrored outputs: 1x HDMI and 1x HDBaseT (with POH support - PSE device)
- Each video input is coupled with an external analog stereo audio input for audio embedding
- De-embedded 8-channel (7.1) analog audio output and TOSLINK optical audio output
- Controllable via LAN (built-in Web GUI or Telnet), RS-232, IR Remote Control, and Front Panel selections
- Advanced EDID Management: preset EDIDs, learn EDID, and upload / download EDID

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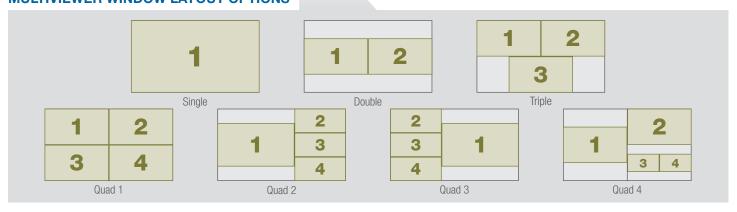




SYSTEM APPLICATION



MULTIVIEWER WINDOW LAYOUT OPTIONS





SUPPORTED INPUT RESOLUTIONS (PARTIAL)

Input Resolution	Scan Format	Vertical Rate (Hz)	
640x350	Progressive 85		
640x400	Progressive	85	
640x480	Interlaced	30	
640x480	Progressive	60, 72, 75, 85	
720x400	Progressive	85	
720x480	Interlaced	30, 60	
720x576	Interlaced 25, 50		
720x576	Progressive	Progressive 50, 100	
800x600	Progressive	56, 60, 72, 75, 85	
848x480	Progressive	60	
1024x768	Progressive	60, 70, 75, 85	
1152x864	Progressive	75	
1280x720	Progressive	50, 60	
1280x768	Progressive	60, 75, 80, 85	
1280x960	Progressive	60, 85	
1280x1024 Progressive		60, 75, 85	
1366x768	Progressive	50, 60	
1600x900	Progressive	60	
1600x1024	Progressive	60	
1600x1200	Progressive	60, 65, 70, 75	

Input Resolution	Scan Format	Vertical Rate (Hz)
1680x1050 Progressive		60
1792x1344	Progressive	60
1856x1392	Progressive	60
1920x1080	Interlaced	25, 30, 50, 60
1920x1080 Progress		24, 25, 30, 50, 60
1920x1200	Progressive	60
1920x1440 ⁽²⁾	Progressive	60
2048x1152	Progressive	60
3840x2160	Progressive	24, 30, 60 ⁽³⁾
4096x2160	Progressive	24

SUPPORTED OUTPUT RESOLUTIONS (4)

Output Resolution	Scan Format	Vertical Rate (Hz)
1024x768 (XGA)	Progressive	60
1280x800 (WXGA)	Progressive	60
1600x1200 (UXGA)	Progressive	60
1920x1200 (WUXGA)	Progressive	60
1280x720 (720p)	Progressive	60
1920x1080 (1080p)	Progressive	60
3840x2160 (4K x 2K)	Progressive	30

SPECIFICATIONS

Performance		
Standards Compliance	HDMI v1.4, DVI v1.0, DisplayPort v1.2, HDCP v1.4 and HDBaseT Class B	
Video Input Formats	1x VGA HD15 - RGB,H,V; 4x HDMI; 2x DisplayPort	
Video Output Formats	1x HDMI 1x Mirrored HDBaseT Output, Class B: Maximum extension distance: up to 230 ft. (70 meters) @ 1920x1080 /60p Maximum extension distance: up to 130 ft. (40 meters) @ 3840x2160 /30p	
MultiViewer Layouts	7x Layouts Available: Single, Double, Triple, Quad 1, Quad 2, Quad 3, Quad 4	
Max. Output Resolution	HDMI and HDBaseT: 3840x2160 /30p (RGB 4:4:4) (4)	
Maximum Pixel Clock Freq.	HDMI and HDBaseT: 300 MHz	
Maximum Video Bit Rate	HDMI and HDBaseT: 3.0 Gbps./lane, 9.0 Gbps. total DisplayPort: 5.4 Gbps./lane, 21.6 Gbps. total	
Supported Color Depth	8-bit / 10-bit / 12-bit	
EDID Memory	Includes a suite of Advanced EDID Management utilities	
Audio Input Formats	HDMI and DP: embedded digital audio up to 8-channel (7.1) PCM; External analog stereo audio: 0.5-1.0 Vpp, 20 kΩ impedance	
Audio Output Formats	HDMI and HDBaseT: embedded digital audio up to 8-channel (7.1) PCM TOSLINK: Digital Optical Audio up to 8-channel (7.1) PCM 8-channel (7.1) analog audio ⁽⁵⁾ : 0.5-1.0 Vpp, 20 kΩ impedance	
Audio Bandwidth	20 Hz to 20 kHz	
Audio Sampling Rate	48 kHz, 8CH, LPCM	
Audio Output Levels	User-adjustable volume in 11x steps (2 Vrms) 0dB (maximum), -2dB, -4dB, -7dB, -10dB, -13dB, -15dB, -18dB, -22dB, -30dB, -113dB (minimum)	
Audio Delay Adjustment	User-adjustable audio delay from 0 - 400ms in increments of 40ms	

- **Note 2:** The VGA input is limited to 1920x1440 resolution.
- Note 3: The DisplayPort inputs support up to 3840x2160 /60p RGB 4:4:4. The HDMI inputs support up to 3840x2160 /30p RGB 4:4:4 and 3840x2160 /60p YPbPr 4:2:0.
- Note 4: Both HDMI and HDBaseT outputs always provide RGB 4:4:4 color regardless of selected input signal or selected output resolution.
- Note 5: The selected audio input signal must be either analog stereo audio or uncompressed PCM audio with up to 8 channels (7.1).



SPECIFICATIONS (CONTINUED FROM PAGE 3)

Input Connections	
HDMI Inputs	4x HDMI 19-pin female connectors
DisplayPort Inputs	2x DisplayPort 20-pin female connectors with locking mechanism
Analog RGB Input	1x HD15 (VGA) female connector
Analog Audio Inputs	7x Unbalanced Stereo Audio on 3.5mm PC audio female connectors
Power Input	1x IEC 60320 C14 power connector
Output Connections	
HDMI Output	1x HDMI 19-pin female connector
HDBaseT Output (6)	1x Shielded CAT-6A connector
Digital Audio Output	1x TOSLINK Optical female connector
Analog Audio Output	8-channel (7.1) unbalanced analog audio on 4x 3.5mm PC audio female connectors
Scaling Engine	
Phase Lock Loops	12-bit, Triple-Analog-to-Digital Converter
De-Interlacing	3D Motion-Adaptive De-Interlacing
Pull-Down	Automatic 3:2 pull-down and 2:2 pull-down detection and recovery
Noise Reduction	3D
Display Settings	Output Resolution, Screen Layout, Video Input Position, Aspect Ratio, VGA Auto Adjust
Control	
Front Panel	18x backlit buttons
IR Remote Control	19x buttons for control
RS-232	Serial communication, 9-pin D-sub connector
LAN	Built-in Web GUI or Telnet
Mechanical	
	Without Feet or Rack Ears: 1.7" x 17.3" x 11.0" (44.3 mm x 440.0 mm x 279.0 mm)
Dimensions (H x W x D)	With Feet: H = 2.0" (51.5 mm); With Rack Ears: W = 19.0" (482.6 mm)
Weight	7.1 lbs. (3.2 kg)
Construction	Heavy-duty 1mm metal enclosure with matte black finish
Mounting Options	Rack Mount Ears, 1U full width
Environmental	
Temperature	Operating: +32° to +104° F (0° to +40° C); Storage: -4° to +140° F (-20° to +60° C)
Humidity (Storage / Operating)	20% to 90% (non-condensing)
Power Requirements	
AC Power	Input: 100~240VAC / 50-60Hz
Power Consumption	30 Watts (max.)
Power over HDBaseT (POH)	HDBaseT Output functions as a Type 1 PSE Device (13 watts) (6)
Regulatory Approvals	,
Switcher / Scaler unit	FCC, CE, RoHS
Warranty	. 55, 52, 1.6.15
Limited Warranty	3 Years Parts and Labor
Model Number	
DVI-3580a	4K MultiViewer Switcher / Scaler
Accessories Included	
	ote Control Unit, 1x Quick Start Guide, 1x USB Flash Drive Loaded with User Manual, 1x Set of Rack Mount Ears
Optional Accessories	5.5 55.1.5. 5.1.5 Quiot Guit Guito, in 605 hadi 5116 254400 Hill 6001 Hallaul, in 601 of hadi moult Edit
	20-RX) ⁽⁶⁾ , DVI-I Female to HDMI Male Adapter Cable (p.n. DVI-8511c), International AC Power Cord (Euro, UK, Australia)

Note 6 – WARNING: The HDBaseT port is designed to connect to compatible HDBaseT products only (e.g. DVIGear's DVI-7520-RX). Do not connect any device to the HDBaseT port of this product unless you have verified that it is compatible. Additionally, do not connect any HDBaseT device to the LAN port of the DVI-3580a. Connecting incompatible devices may cause harm to the devices. Please consult technical support with any questions concerning product interoperability.

Note 7: Specifications are subject to change without notice.

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