

1T-MV-8474

4K Multiviewer



Key Features

- Supports 4K 3840x2160@60Hz input
- Supports 4K 3840x2160@30Hz output
- 4-window layouts
- 16-preset window layouts
- Assignable front panel and remote buttons
- 7-video inputs - 4x HDMI 2x DP 1x VGA/YPbPr
- HDCP Compliant
- 4K scaling engine, supports up-scaling & down-scaling
- 8-bit / 10-bit / 12-bit Colour depth
- Auto-scaling, auto-detect EDID
- Audio embedding and breakaway
- Supports 7.1 analogue and digital audio
- Volume control
- Audio delay from 0-400ms
- IR remote, RS232, Ethernet and WebGUI control
- Intuitive Web interface
- Full system control via API
- Full switching control from front panel
- 1RU rack mountable

Overview

1T-MV-8474 4K Multiviewer is the latest product in tvONE's range of 4K enabled products. The Multiviewer can display up to four video windows simultaneously via sixteen different fixed layouts, which can be recalled to present your content in a variety of combinations. This could vary from a straight forward Quad split, Picture-In-Picture, Triple, Side-By-Side, Full screen or something more complex with multiple layers.

The 1T-MV-8474 has seven inputs – 4x HDMI, 2x DisplayPort, 1x VGA/YPbPr Supporting resolutions up to 3840x2160@30 on HDMI and 3840x2160@60 via DisplayPort. It is complimented by seven independent stereo analogue inputs which can be assigned and embedded into any of the video streams. It offers a single scaled HDMI output capable of supporting resolutions up to 3840x2160@30. A digital Toslink and eight independent de-embedded analogue channels allow you to switch audio separately from the HDMI stream allowing you to integrate 7.1 audio with external equipment. Full EDID management and audio control including delay and volume adjustments are supported through the Web interface, making it easy to integrate the 1T-MV-8474 into complex systems. Control is via a Web interface, RS232, Ethernet, Infrared remote or from the front panel buttons. Four of the buttons on front panel and the IR remote are assignable which means you can allocate specific preset configurations and easily recall them during presentations.

The 1T-MV-8474 is an extremely flexible Multiviewer and a very capable Presentation Switcher making it a good fit for many different user applications.

Input Resolutions

Resolution	P/I	HDMI	DisplayPort	VGA
640x350	P	85		
640x400	P	85		85
640x480	I	30		
640x480	P	60/75/85		75/85
720x400	P	85		
720x480	I			60
720x576	I	25		50
720x576	P	50/100		
800x600	P	60/75/85	60	60
848x480	P			60
1024x768	P	60/75/85		60/70/75
1152x864	P			75
1280x720	P	50/60	60	50/60
1280x768	P	60/75/85		60/75/80
1280x960	P	60/85		
1280x1024	P	60/75/85		60/75
1366x768	P			60
1600x900	P		60	
1600x1024	P	60		
1600x1200	P	60		60/65/70/75
1680x1050	P			60
1792x1344	P			60
1856x1392	P			60
1920x1080	I	25/30		50/60
1920x1080	P	24/25/30/50/60	60	24/25/30/60
1920x1200	P	60		60
1920x1440	P			60
2048x1152	P		60	
3840x2160	P	24/30	30/60	

Output Resolutions

HDMI Output			
Auto	3840x2160@30 (4K)	1920x1080@60 (1080p)	1280x720@60 (720p)
1920x1200@60 (WUXGA)	1600x1200@60 (UXGA)	1280x800@60 (WXGA)	1024x768@60 (XGA)

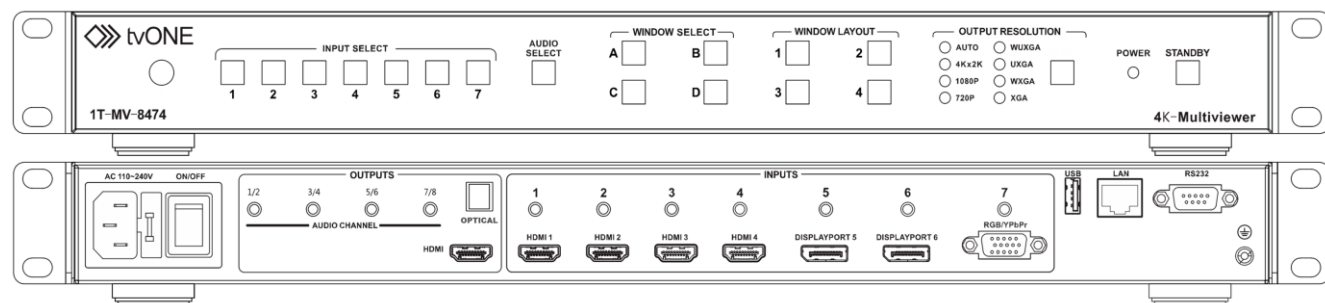
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Specification

Unit Functionality		Control	
Video Input Formats	HDMI, DVI, DisplayPort, RGBHV YPrPb	Configuration	Web Interface, RS232, Ethernet, IR remote front panel buttons
Audio Input Formats	HDMI and DisplayPort: embedded digital external analogue stereo audio: 20 kΩ impedance	Application Buttons	Web Interface 7.5mm square coloured LED backlight
Video Output Formats	HDMI RGB 4:4:4	Mechanical	
Audio Output Formats	HDMI: embedded digital audio 7.1 Surround analogue audio: 20 kΩ impedance	Size (H x W x D)	
Format Compliance	TOSLINK: Digital Optical Audio (stereo)	Without feet or ears	44 x 439 x 279mm (1.7" x 17.3" x 11.0")
	HDMI v1.4 / DVI v1.0 / DisplayPort v1.2	With feet (H)	51mm (2.0")
	HDCP v1.4	With ears (W)	483mm (19.0")
Colour Depth	8-bit / 10-bit / 12-bit	Weight	3.3kg (7.3lbs)
EDID Memory	Advanced EDID utilities	Power	
Audio Bandwidth	20 Hz to 20 kHz	AC Power	100~240VAC / 50-60Hz
Audio Sampling Rate	48 kHz / 8CH / LPCM	Power Consumption	15 Watts (max.)
Audio Levels	Stereo Audio: unity / nominal Stereo Audio: 0.5 - 1.0 Vpp	Construction/Material	
Audio Delay	User-adjustable from 0 - 400ms in increments of 40ms	Front panel Chassis	10mm aluminium alloy with black finish 1mm pressed steel with matte black finish
Inputs		Environmental	
Video	6x digital and 1x analogue RGB	Operating Temperature	0° to +40° C (+32° to +104° F)
Audio	6x digital and 7x stereo analogue	Storage Temperature	-20° C to 60° C (-4° F~140° F)
Output		Operating Humidity	20% to 90% Non-Condensing
Video	1x HDMI/DVI	Product Item Number	
Audio	1x digital optical, embedded HDMI 4x stereo (analogue 7.1)	1T-MV-8474	4K Multiviewer
Input Connectors		Accessories	
HDMI/DVI	4x HDMI 19-pin female connectors	Included	19 Button remote control, AC power cord User Guide and 2x rack ears
DisplayPort	2x 20-pin female locking connectors	Warranty	
Analogue RGB	1x HD15 (VGA) female connector	Limited Warranty	3 Years Parts and Labour
Analogue Audio	7x stereo 3.5mm female connectors	Regulatory Compliance	
Power	1x IEC C14 power connector	Main Unit	FCC, CE, RoHS
Output Connectors			
HDMI/DVI	1x HDMI 19-pin female connector		
Digital audio	1x TOSLINK Optical female connector		
Analogue audio	4x 3.5mm female connectors		

Panel Design



Window Layouts

