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

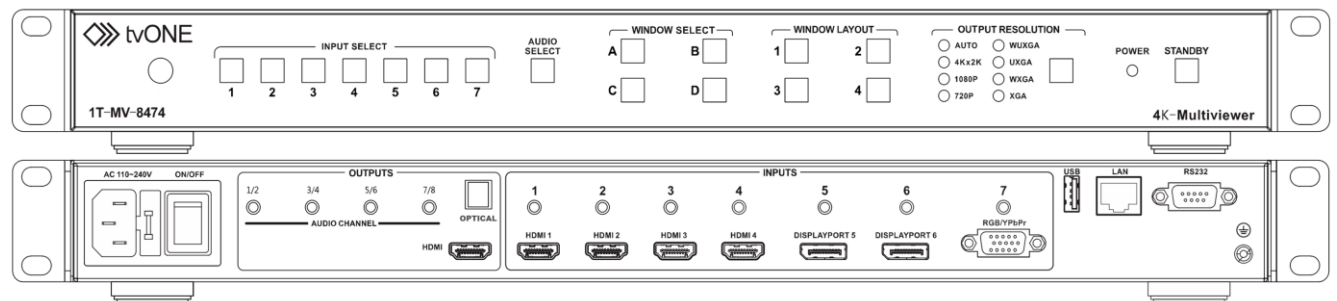| HDMI Output			
Auto	3840x2160@30 (4K)	1920x1080@60 (1080p)	1280x720@60 (720p)
1920x1200@60 (WUXGA)	1600x1200@60 (UXGA)	1280x800@60 (WXGA)	1024x768@60 (XGA)

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Specification

Unit Functionality

Video Input Formats	HDMI, DVI, DisplayPort, RGBHV YPrPb
Audio Input Formats	HDMI and DisplayPort: embedded digital external analogue stereo audio: 20 kΩ impedance
Video Output Formats	HDMI RGB 4:4:4
Audio Output Formats	HDMI: embedded digital audio 7.1 Surround analogue audio: 20 kΩ impedance TOSLINK: Digital Optical Audio (stereo)
Format Compliance	HDMI v1.4 / DVI v1.0 / DisplayPort v1.2 HDCP v1.4
Colour Depth	8-bit / 10-bit / 12-bit
EDID Memory	Advanced EDID utilities
Audio Bandwidth	20 Hz to 20 kHz
Audio Sampling Rate	48 kHz / 8CH / LPCM
Audio Levels	Stereo Audio: unity / nominal Stereo Audio: 0.5 - 1.0 Vpp
Audio Delay	User-adjustable from 0 - 400ms in increments of 40ms

Inputs

Video	6x digital and 1x analogue RGB
Audio	6x digital and 7x stereo analogue

Output

Video	1x HDMI/DVI
Audio	1x digital optical, embedded HDMI 4x stereo (analogue 7.1)

Input Connectors

HDMI/DVI	4x HDMI 19-pin female connectors
DisplayPort	2x 20-pin female locking connectors
Analogue RGB	1x HD15 (VGA) female connector
Analogue Audio	7x stereo 3.5mm female connectors
Power	1x IEC C14 power connector

Output Connectors

HDMI/DVI	1x HDMI 19-pin female connector
Digital audio	1x TOSLINK Optical female connector
Analogue audio	4x 3.5mm female connectors

Control

Configuration	Web Interface, RS232, Ethernet, IR remote front panel buttons
Application	Web Interface
Buttons	7.5mm square coloured LED backlit

Mechanical

Size (H x W x D)	
Without feet or ears	44 x 439 x 279mm (1.7" x 17.3" x 11.0")
With feet (H)	51mm (2.0")
With ears (W)	483mm (19.0")
Weight	3.3kg (7.3lbs)

Power

AC Power	100~240VAC / 50-60Hz
Power Consumption	15 Watts (max.)

Construction/Material

Front panel	10mm aluminium alloy with black finish
Chassis	1mm pressed steel with matte black finish

Environmental

Operating Temperature	0° to +40° C (+32° to +104° F)
Storage Temperature	−20°C to 60°C (−4°F~140°F)
Operating Humidity	20% to 90% Non-Condensing

Product Item Number

1T-MV-8474	4K Multiviewer

Accessories

Included	19 Button remote control, AC power cord User Guide and 2x rack ears

Warranty

Limited Warranty	3 Years Parts and Labour

Regulatory Compliance

Main Unit	FCC, CE, RoHS

Panel Design

Window Layouts