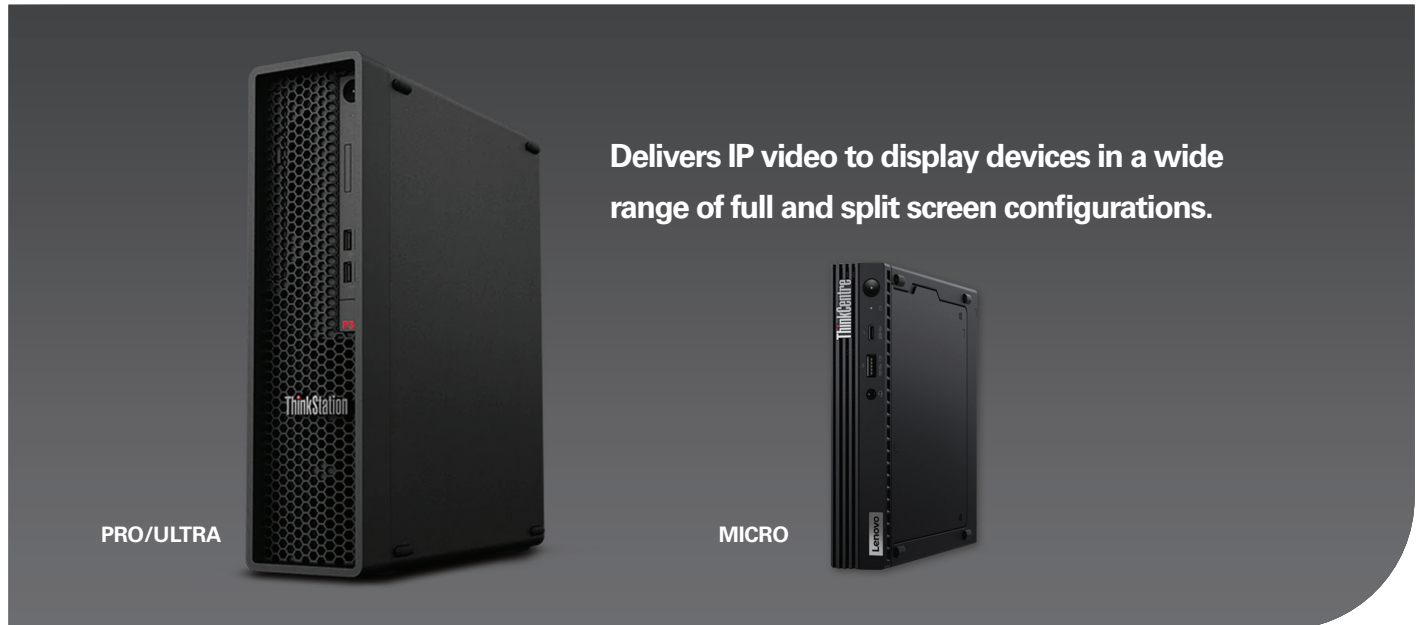


Display Wall Range



Synectics Display Wall Range, available in Micro, Pro and Ultra formats, enables the display of compatible IP video sources in a wide range of full and split screen configurations.

Controlled by Synergy 3 command and control platform, the Display Wall devices deliver excellent reproduction of independent live and recorded video streams from compatible third-party SD, HD and megapixel IP cameras, DVRs and encoders – including ONVIF compliant devices, and Synectics' HD IP camera range.

Synergy 3 can be configured for manual or automatic triggering of macros to control switching of layout and content, based on user-defined alarm conditions. This flexible display wall management solution gives operators instantaneous

access to relevant video and data for swift resolution of critical incidents

Synergy 3 makes use of optional secondary streams*³ included with many network encoders and IP cameras, to ensure full frame rate, high-quality video is presented without perceived quality loss. This allows for a high camera count to be displayed irrespective of the SD, HD, or 4K camera mix.

Devices to Suit Your Application

The Micro display wall is ideal for when basic display functionality must be delivered using a low profile form factor. This version is compact yet powerful enough to deliver up to 32¹ independent live and recorded streams via HDMI and DisplayPort. The VESA² mount makes it well-suited to environments where space is a premium.

The Pro and Ultra display wall devices are designed for standard to large-scale control room deployments. These versions of the display wall can provide up to 32¹ live and recorded streams from compatible IP video sources.

In addition to the wide range of layouts available by default (including full screen, 4x4, 2x2, 3x3) custom layouts can be created through the Synergy 3 software.

The Ultra display wall is designed to support next generation cameras with 4K resolution and 60fps streaming. With its ability to produce exceptionally detailed images, on large displays, the Ultra can be used for clear identification of on-screen images and text from a distance.

Synergy 3 Advanced Functionality⁴

With Synergy 3 the Pro and Ultra display walls offer advanced features, such as alarm and situational awareness data, in the display environment. In this advanced mode, the Ultra and Pro versions can display up to 32 independent live and recorded streams of video, alarms, web pages, system statistics, reports, charts

and RSS feeds. A live ticker tape can display useful information including user logins, alarms, tasks and live incidents, and a threat level bar displays the current system status.

In addition to advanced views, Synergy 3 allows the operation of multiple display walls from a single user interface.

¹ See Specification for stream display configurations.

² Unit can be mounted directly to the back of a monitor using VESA mount options of 75 mm (2.953”) or 100 mm (3.937”).

³ Secondary stream functionality must be supported by the camera or encoder (live video only).

⁴ Features noted in this section are Synergy 3 license dependent.



Micro Display Wall Features

- High performance yet compact video wall manager with energy-efficient, space-saving design
- Reliably decodes/displays up to 32¹ SD independent, live or recorded, streams
- Optional automatic camera bit rate management enables the view of a high number of video playback windows by auto selecting second streaming camera functionality^{*3} on high camera count configurations.
- Scalable with multiple units to display selected streams from any number of cameras

Pro Display Wall Features

- Reliably decodes/displays up to 32¹ independent, live or recorded, streams across single or dual monitors
- Allows live video to be superimposed onto system maps for situational awareness
- Enables dynamic content changes based on manually or automatically triggered, user-defined alarm conditions
- Range of layouts available; full screen, 4x4, 2x2, 3x3 and customer defined layouts

Ultra Display Wall Features

- Reliably decodes/displays up to 32¹ HD independent, live or recorded, streams across single or dual monitors
- Allows live video to be superimposed onto system maps for situational awareness
- Enables dynamic content changes based on manually or automatically triggered, user-defined alarm conditions
- Range of layouts available; full screen, 4x4, 2x2, 3x3 and 5+1, and customer defined layouts
- Supports 60fps and 4K technologies
- Enables 2x2 Cluster 4 Monitor Display with up to 16 video window support

Specifications

DISPLAYWALL	Number of Monitors	Maximum SD Windows ¹	Maximum HD H.264 windows ²	Maximum HD H.265 Windows ³	4K H.264 ⁴	4K H.265 ⁵
Micro V4	1 x 1080P	16 (4x4)	12 (12+1)	12 (12+1)	1	1
	2 x 1080P	32 (4x4 + 4x4)	9 (7+1 + 1)	9 (7+1 + 1)	1	1
Pro V3.1	1 x 1080P	16 (4x4)	16 (4x4)	16 (4x4)	1	1
	2 x 1080P	32 (4x4 + 4x4)	18 (3x3 + 3x3)	18 (3x3 + 3x3)	2 (1 + 1)	2 (1 + 1)
	1 x 4K	8 (7+1)	4 (2x2)	4 (2x2)	1	1
Ultra V3.1	1 x 1080P	16 (4x4)	16 (4x4)	16 (4x4)	4 (2x2)	4 (2x2)
	1 x 4K ⁷	16 (4x4)	16 (4x4)	16 (4x4)	4 (2x2)	4 (2x2)
	2 x 1080P	32 (4x4 + 4x4)	32 (4x4 + 4x4)	32 (4x4 + 4x4)	4 (1x2 + 1x2)	4 (1x2 + 1x2)
	2x 4K	32 (4x4 + 4x4)	32 (4x4 + 4x4)	32 (4x4 + 4x4)	4 (1x2 + 1x2)	4 (1x2 + 1x2)

¹ – 2.0 Mbps H.264 or 1.0 Mbps H.265

² – 6.0 Mbps H.264

³ – 4.0 Mbps H.265

⁴ – 20.0 Mbps H.264

⁵ – 12.0Mbps H.265

⁶ – For 3440 x 1440 Ultra-wide Monitors use 4K results

⁷ – For 2x2 4 Monitor Cluster, use 1 Monitor Performance

IT ARCHITECTURE	
CPU	Intel Core i5 Comet Lake (Micro/Pro) / Intel Core i7 Comet Lake (Ultra)
RAM	16GB DDR4
O/S	Microsoft Windows IOT Enterprise LTSC
OS Disk	256GB NVMe

PORTS	Micro V4	Pro V3.1	Ultra V3.1
USB	Front Side- USB 3.2 Gen 2 Type A USB 3.2 Gen 1 Type C Rear Side- 3x USB 3.2 Gen 1 Type A 1x USB 3.2 Gen 2 Type A 1x USB 3.2 Gen 1 Type C	Front Side – 2x USB 3.2 Gen 2 Type A 2x USB 3.2 Gen 1 Type A 1 x USB 3.2 Gen 1 Type-C Rear – 2x USB 3.2 Type A 2x USB 2.0 Type A	Front Side – 2x USB 3.2 Gen 2 Type A 2x USB 3.2 Gen 1 Type A 1 x USB 3.2 Gen 1 Type-C Rear – 2x 2x USB 3.2 Type A 2x USB 2.0 Type A
Ethernet	1 x 1000BT NIC	1x 1000BT NIC (Optional: Additional Teamable 1000BT NIC)	1x 1000BT NIC (Optional: Additional Teamable 1000BT NIC)
Display	1x DisplayPort 1x HDMI 1x USB Type C (Rear) DisplayPort	2x DisplayPort (2x HDMI adapters included)	4x Mini DisplayPort (adapters not included, please see accessories)
Audio	Line-out / Display / Mic-in	Line-out / Display / Mic-in	Line-out / Display / Mic-in

POWER	Micro V4	Pro V3.1	Ultra V3.1
Hot Swap PSU	No	No	No
Power Consumption	Max 130W / Norm 35W	Max 130W / Norm 35W	Max 150W / Norm 60W
BTU's	Max 444, Normal 120 Per Hour	Max 444, Normal 120 per Hour	Max 512, Normal 205 per Hour
Supply	100-240VAC 1.5A 50-60Hz	100-240 VAC 4A 50-60Hz	100-240 VAC 4A 50-60Hz

GENERAL	Micro V4	Pro V3.1	Ultra V3.1
Size (H x W x D)	179mm x 36.5mm x 182.9mm / 7.04" x 1.44" x 7.2"	339.5mm x 92.5mm x 309.7mm 13.37" x 3.64" x 12.19"	339.5mm x 92.5mm x 309.7mm 13.37" x 3.64" x 12.19"
Device Weight	1.32 kg / 2.91 lbs	5.65 kg / 12.46 lbs	5.65 kg / 12.46 lbs
Operating Temperature	5°C (41°F) to 35°C (95°F)	10°C- 35°C / 50°F- 95°F	10°C- 35°C / 50°F- 95°F
Storage Temperature	-10°C- 60°C / 14°F- 140°F	-10°C- 60°C / 14°F- 140°F	-10°C- 60°C / 14°F- 140°F
Humidity	20% to 80% Non-condensing	10% to 80% Non-condensing	10% to 80% Non-condensing
Certifications and Approvals	FCC, CE, VCCI, BSMI, KC, RCM, CB, KUCAS, CCC, PSB, SABS, EAC, CM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC, NOM	FCC, CE, cTUVus, KC, VCCI, BSMI, IEC60950-1, IEC62368, KUCAS, CCC, PSB, SABS, EAC, CM, NOM, EAC, KVALITET, UKrCEPRO, BIS, EQM	FCC, CE, cTUVus, KC, VCCI, BSMI, IEC60950-1, IEC62368, KUCAS, CCC, PSB, SABS, EAC, CM, NOM, EAC, KVALITET, UKrCEPRO, BIS, EQM
Virus Protection Included	Yes	Yes	Yes
TPM (Trusted Platform Module)	2.0	2.0	2.0

APPLIANCE FUNCTIONALITY	Micro V4	Pro V3.1	Ultra V3.1
Synectics Watchdog Compliant	Yes	Yes	Yes
Rack Kit	No	No	No
Wall Mount	No	No	No
VESA Mount	Yes	No	No

ACCESSORIES	Synectics Part Number	Compatible With
Additional 1Gbps NIC		
PCIe card, for where more resilient network connections are required	SY-SYNERGYV3NIC	Pro V3, Pro V3.1, Ultra V3, Ultra V3.1
DisplayPort to HDMI 2.0 adapter		
Two adapters are included only with the Pro V3.1, but this item is available as a spare if required	87-0177-0000	Pro V3, Pro V3.1, Micro V4
Mini DisplayPort to HDMI 2.0 adapter	00-2810-0003	Ultra V3, Ultra V3.1
Mini DisplayPort to DisplayPort adapter	00-2810-0004	Ultra V3, Ultra V3.1

