

# SYNECTICS

## Synergy Display Wall Range

### Flexible display of IP video streams and Synergy operational data for your control room

With support for Synergy-compatible live and recorded IP video streams, and easy drag-and-drop control for operators, Synergy Display Walls are ideal for visualising your key video and operational data.



### Why Choose the Synergy Display Wall?

#### Designed for Video

Extensively tested to ensure high reliability for your critical 24/7 control room operations.

#### Flexible Format

Micro, Pro and Ultra hardware options are available to suit your unique video playback requirements.

#### Responsive

Display walls can be configured to respond to selected events in your system, to ensure that relevant video and data is front of the operators during critical incidents.

#### Scalable

Hundreds of display walls can be configured per system and displayed as visualised layouts in Synergy, making it simple for operators to make changes to the displays.

#### High Performance

Up to 32x HD or 4x 4K streams are supported per device, with dynamic selection of secondary streams (where available) to further enhance video playback performance.

#### Data Insights

A range of key system data can be displayed alongside video to support your day-to-day monitoring – such as RSS feeds, incoming alarms, reports/charts, and web pages.

### Key Features

- Up to 32 video windows across 2x monitors
- Support for H.265 video streams, with 60FPS and 4K video streams supported on Ultra hardware
- Flexible layouts per monitor – full screen, quad, 3x3, 4x4 and more are available
- Workstation-grade hardware designed for 24/7 usage
- An optimised Windows 10 OS ensures easy installation and minimised downtime

# Specifications

DISPLAYWALL	Number of Monitors	Maximum SD Windows <sup>*1</sup>	Maximum HD H.264 Windows <sup>*2</sup>	Maximum HD H.265 Windows <sup>*3</sup>	4K H.264 <sup>*4</sup>	4K H.265 <sup>*5</sup>
Micro v4.1	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 v4	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 v4	1 x 1080p	16 (4x4)	16 (4x4)	16 (4x4)	4 (2x2)	4 (2x2)
	1 x 4K <sup>*7</sup>	16 (4x4)	16 (4x4)	16 (4x4)	4 (2x2)	4 (2x2)
	1 x Ultra-wide <sup>*6</sup>	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)
	2 x 4K	32 (4x4 + 4x4)	32 (4x4 + 4x4)	32 (4x4 + 4x4)	4 (1x2 + 1x2)	4 (1x2 + 1x2)

## IT ARCHITECTURE

CPU	Intel Core i5 Sapphire Rapids
RAM	16GB DDR 4 (Micro) / 16GB DDR 5 (Pro/Ultra)
Host OS	Microsoft Windows 10 IOT Enterprise LTSC 2021
OS Disk	256GB NVMe

## PORTS

	Micro v4.1	Pro v4	Ultra v4
USB	Front Side: 2 x USB 3.2 Gen 2 Type A 1 x USB 3.2 Gen 1 Type C Rear Side: 3 x USB 3.2 Gen 1 Type A 1 x USB 3.2 Gen 2 Type A 1 x USB 3.2 Gen 1 Type C	Front Side: 1 x USB 3.2 Gen 2 Type-A 2 x Thunderbolt Type-C Rear Side: 4 x USB 3.2 Gen 2 Type-A	Front Side: 1 x USB 3.2 Gen 2 Type-A 2 x Thunderbolt Type-C Rear Side: 4 x USB 3.2 Gen 2 Type-A
Ethernet	1 x 1000BT NIC	1 x 2500BT NIC 1 x 1000BT NIC (Teamable)	1 x 2500BT NIC 1 x 1000BT NIC (Teamable)
Display	1 x DisplayPort 1 x HDMI	3 x DisplayPort, max 2 supported (2x HDMI adapters included)	4 x 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 v4.1	Pro v4	Ultra v4
Hot Swap PSU	No	No	No
Power Consumption	Max 90W / Norm 35W	Max 130W / Norm 35W	Max 150W / Norm 60W
BTU's	Max 307, Normal 120 Per Hour	Max 444, Normal 120 per Hour	Max 512, Normal 205 per Hour
Supply	External 100-240VAC 1.5A 50-60Hz	External 100-240 VAC, 11.5A 50-60Hz	External 100-240 VAC, 11.5A 50-60Hz

## GENERAL

	Micro v4.1	Pro v4	Ultra v4
Size (H x W x D)	179mm x 36.5mm x 182.9mm / 7.04" x 1.44" x 7.2"	202mm x 87mm x 223mm 7.95" x 3.43" x 8.78"	202mm x 87mm x 223mm 7.95" x 3.43" x 8.78"
Weight	1.25 kg / 2.76 lbs	3.6 kg / 7.94lbs	3.6 kg / 7.94lbs
Operating Temperature	5°C (41°F) to 35°C (95°F)	10°C (50°F) to 35°C (95°F)	10°C (50°F) to 35°C (95°F)
Storage Temperature	-40°C (40°F) to 60°C (140°F)	-10°C (14°F) to 60°C (140°F)	-10°C (14°F) to 60°C (140°F)
Humidity	20% to 80% Non-condensing	20% to 80% Non-condensing	20% 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/IC, VCCI, BSMI, KC, RCM, TUV-GS, cTUVus, CB, EQM, KUCAS, CCC, SABS, EAC, CM, NOM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC	FCC/IC, VCCI, BSMI, KC, RCM, TUV-GS, cTUVus, CB, EQM, KUCAS, CCC, SABS, EAC, CM, NOM, KVALITET, UKrCEPRO, BIS, SRRC, SDPPI, SIRIM, NTC
Virus Protection Included	Yes	Yes	Yes
Minimum Synergy Version	23.1.100	23.1.100	23.1.100

APPLIANCE FUNCTIONALITY	Micro v4.1	Pro v4	Ultra v4
Synectics Watchdog Compliant	Yes	Yes	Yes
VESA Mount	Yes	No	No

ACCESSORIES	Synectics Part Number	Compatible With
<b>DisplayPort to HDMI 2.0 adapter</b> Two adapters are included only with the Pro v4, but this item is available as a spare if required	87-0177-0000	Pro v3, Pro v3.1, Micro v4, Micro v4.1, Pro v4
<b>Mini DisplayPort to HDMI 2.0 adapter</b>	00-2810-0003	Ultra v3, Ultra v3.1, Ultra v4
<b>Mini DisplayPort to DisplayPort adapter</b>	00-2810-0004	Ultra v3, Ultra v3.1, Ultra v4

\*1 Video Stream Source: SD H.264 up to 2Mbps  
 \*2 Video Stream Source: HD H.264, up to 6Mbps  
 \*3 Video Stream Source: HD H.265, up to 4Mbps  
 \*4 Video Stream Source: 4K H.264, up to 20Mbps  
 \*5 Video Stream Source: 4K H.265, up to 12Mbps  
 \*6 Ultra-wide monitor resolution 3440 x 1440  
 \*7 Up to 4x HD monitors can be combined into a single 1x 4K display wall view



**Micro v4.1**

**Pro / Ultra v4**