

# Synectics Synergy™ Client Range



Synectics Synergy Client Range, available in Micro, Pro and Ultra formats, provides high-powered workstations for the Synergy 3 command and control platform.

With a powerful CPU and graphics capability, Synergy Clients efficiently display full frame rate video streams with unparalleled user-friendly camera, monitor wall, PTZ and DVR/NVR control.

Configurable with up to four monitors<sup>1</sup> (with up to two dedicated for video) at up to 4K resolution, optional touchscreens and a variety of PTZ

controllers, Synectics' range of Clients have been designed to allow the user to select the format that best meets the site requirements.

When displaying high numbers of HD or 4K camera streams Synergy 3 will automatically switch from streaming the primary HD stream to the secondary HD stream<sup>2</sup>, to ensure full frame rate high-quality video is still presented, without perceived quality loss. This allows for a high camera count to be displayed irrespective of the SD, HD or 4K camera mix.

## Features

- Simultaneously display live/recorded analog, SD, HD IP and 4K cameras
- Open integration design supports ONVIF protocol standard devices
- Optional automatic camera bit rate management enables the view of a high number of video playback windows by auto selecting second streaming camera functionality on high camera count configurations
- Scalable to hundreds of clients per site

## MICRO V3



A powerful, yet compact device, the Synergy Client Micro is ideal for entry level deployments requiring basic video management, such as reception areas, guard stations and remote facilities. The optional VESA<sup>3</sup> mount makes the Micro well-suited for installations where space is a premium.

## PRO V3



Designed for larger-scale control room deployments, the Synergy Client Pro delivers superior video reproduction across two monitors, and camera control with exceptional operational, fault, and alarm and integration management.

## ULTRA V3



The Synergy Client Ultra<sup>4</sup> is the ideal device for command and control systems where one to four Synergy monitors, at up to 4K in resolution, are essential. The Ultra enables additional on-screen information per workstation to be displayed at all times, as well as an additional spot monitor for further video playback.

<sup>1</sup> See technical specification for full details

<sup>2</sup> Secondary stream functionality must be supported by the camera (live video only)

<sup>3</sup> 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")

<sup>4</sup> Ultra configuration is map monitor, playback monitor, alarm monitor and spot monitor or part thereof.

# H.264 and H.265 Specifications

CLIENT	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>
<b>Micro V3</b>	1 x 1080P	16 (4x4)	9 (3x3)	9 (3x3)	1	1
	1 x 4K	16 (4x4)	9 (3x3)	9 (3x3)	1	1
	2 x 1080P (1 Video and one Standard Mapping) <sup>6</sup>	16 (4x4)	9 (3x3)	9 (3x3)	1	1
	2 x 4K (1 Video and one Standard Mapping) <sup>6</sup>	16 (4x4)	9 (3x3)	9 (3x3)	1	1
	2 x 1080P	32 (4x4 + 4x4)	12 (5+1) + (5+1)	5 (1) + (2+2)	1	1
	2 x 4K	32 (4x4 + 4x4)	8 (2x2) + (2+2)	5 (1) + (2x2)	1	1
<b>Pro V3</b>	1 x 1080P	16 (4x4)	16 (4x4)	16 (4x4)	1	1
	(1 x Video + 1 Standard Mapping) <sup>6</sup>	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)
<b>Ultra V3</b>	1 x 1080P	16 (4x4)	16 (4x4)	16 (4x4)	4 (2+2)	4 (2+2)
	1 x 4K	16 (4x4)	16 (4x4)	16 (4x4)	4 (2+2)	4 (2+2)
	2 x 1080P (1 Video and one Standard Mapping) <sup>6</sup>	16 (4x4)	16 (4x4)	16 (4x4)	4 (1x2+1x2)	4 (1x2+1x2)
	2 x 4K (1 Video and one Standard Mapping) <sup>6</sup>	16 (4x4)	16 (4x4)	16 (4x4)	4 (1x2+1x2)	4 (1x2+1x2)
	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)

<sup>1</sup> – 2.0 Mbps H.264 or 1.0 Mbps H.265

<sup>2</sup> – 6.0 Mbps H.264

<sup>3</sup> – 4.0 Mbps H.265

<sup>4</sup> – 20.0 Mbps H.264

<sup>5</sup> – 12.0Mbps H.265

<sup>6</sup> – Results for Standard Mapping , for Advanced Mapping and GIS Mapping please see Synectics.

<sup>7</sup> – For 3440 x 1440 Ultra-wide Monitors use 4K results.

IT ARCHITECTURE			
CPU	Intel Core i5 Kaby Lake (Micro) / Intel Core i5 Coffee Lake (Pro) / Intel Core i7 Coffee Lake (Ultra)		
RAM	8GB DDR4 (Micro) / 16GB DDR4 (Pro / Ultra)		
O/S	Microsoft Windows IOT Enterprise LTSC		
OS Disk	256GB M.2 (Micro) / 256GB M.2 NVMe (Pro/Ultra)		
PORTS	Micro V3	Pro V3	Ultra V3
USB	Front Side- x2 USB3 Rear – x2 USB3	Front Side – 2x USB 3.1 Gen 1 Type A 2x USB 3.1 Gen 2 Type A 1x USB 3.1 Gen 1 Type C  Rear – 2x USB 3.1 Gen 1 Type A 2x USB 2.0 Type A	Front Side – 2x USB 3.1 Gen 1 Type A 2x USB 3.1 Gen 2 Type A 1x USB 3.1 Gen 1 Type C  Rear – 2x USB 3.1 Gen 1 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	2 x HDMI	2x DisplayPort (2x HDMI adapters included)	4x Mini DisplayPort (adapters not included, please see accessories)
Audio	via HDMI	Line-out / Display / Mic-in	Line-out / Display / Mic-in
Serial Connection	via IP Device	1	1

POWER	Micro V3	Pro V3	Ultra V3
Hot Swap PSU	No	No	No
Power Consumption	Max 65w / Norm 40w	Max 140W / Norm 30W	Max 180w / Norm 50w
BTU's	Max 221, Normal 137 per Hour	Max 478, Normal 142 per Hour	Max 615, Normal 170 per Hour
Supply	100-240 VAC 3.43A 50-60Hz	100-240 VAC 3A 50-60Hz	100-240 VAC 3A 50-60Hz

GENERAL	Micro V3	Pro V3	Ultra V3
Size (H x W x D)	116.6 mm x 112 mm x 49 mm / 4.5" x 4.4" x 1.9"	343.5mm x 92.5 mm x 305.6 mm / 13.5" x 3.6" x 12"	343.5mm x 92.5 mm x 305.6 mm /13.5" x 3.6" x 12"
Weight	0.5 kg / 1 lb	6 kg / 13.23 lb	6kg / 13.23lb
Operating Temperature	18°C- 25°C / 64°F- 77°F Recommended, Max 25°C / 77°F	10°C- 35°C / 50°F- 95°F	10°C- 35°C / 50°F- 95°F
Storage Temperature	-20°C- 80°C -4°F- 176°F	-10°C- 60°C / 14°F- 140°F	-10°C- 60°C / 14°F- 140°F
Humidity	5% to 90% Non-condensing, 40% Recommended	10% to 90% Non-condensing	10% to 90% Non-condensing
Certifications and Approvals	CISPR 24, EN 61000-3-2, EN55022, ICES-003, EN 61000-3-3, EN55024, CISPR 22, RoHS, UL 60950-1, IEC 60950-1, EN 60950-1, BSMI CNS 13438, FCC CFR47 Part 15 B, GOST-R, CSA C22.2 No. 60950-1, VCCI V-3, NOM-019-SCFI-1998	FCC, UL, CE, cTUVus, KC, VCCI, BSMI, IEC60950-1, SASO, KUCAS, CCC, SAR, PSB, SABS, EAC, CM, NOM, EAC, KVALITET, UKrCEPRO, BIS	FCC, UL, CE, cTUVus, KC, VCCI, BSMI, IEC60950-1, SASO, KUCAS, CCC, SAR, PSB, SABS, EAC, CM, NOM, EAC, KVALITET, UKrCEPRO, BIS
Virus Protection Included	Yes	Yes	Yes
TPM (Trusted Platform Module)	2.0	2.0	2.0

APPLIANCE FUNCTIONALITY	Micro V3	Pro V3	Ultra V3
Synectics Watchdog Compliant	Yes	Yes	Yes
Rack Kit	No	No	No
Wall Mount	No	No	No
VESA Mount	Yes	No	No
EX300 Support	Yes	Yes	Yes
EX250 Joystick Support	Yes	Yes	Yes
EX100 Joystick Support	Yes	Yes	Yes
Synergy Compatibility	Synergy 3 View Synergy 3 Control Synergy 3 Connect Synergy 3 Extend	Synergy 3 View Synergy 3 Control Synergy 3 Connect Synergy 3 Extend	Synergy 3 View Synergy 3 Control Synergy 3 Connect Synergy 3 Extend
CDR / DVDR	Optional (via external drive)	Yes (internal)	Yes (internal)

ACCESSORIES	Synectics Part Number	Compatible With
<b>Keyboard (US layout) and mouse</b>	85-3259-0001	All client hardware
<b>Keyboard (UK layout) and mouse</b>	85-3259-0000	All client hardware
<b>Additional 1Gbps NIC</b> PCIe card, for where more resilient network connections are required	SY-SYNERGY-V3NIC	Pro V3
<b>DisplayPort to HDMI 2.0 adapter</b> Two adapters are included only with the Pro V3, but this item is available as a spare if required	87-0177-0000	Pro V3
<b>Mini DisplayPort to HDMI 2.0 adapter</b>	00-2810-0003	Ultra V3
<b>Mini DisplayPort to DisplayPort adapter</b>	00-2810-0004	Ultra V3
<b>USB DVD Writer</b>	SY-SYNERGY-DVD	Micro V3