

ARXYS VideoX[®] SW20 Workstation



V5 Security Workstation

- Up to 225Mb/s Bandwidth
- Dual Nvidia A1000 GPUs
- AMD Ryzen 7 8C/16T 5.5Ghz CPU
- 16GB RAM DDR5
- 2x 10GB Ethernet connectivity
- Up to 8x monitor Support *

Hardware Information

Form Factor

Performance Tower, with enhanced cooling, EPEAT Bronze certified

CPU

AMD Ryzen 7 9700X - 8C/16T - 3.8Ghz/5.5Ghz - 65W - 32MB Cache

GPU's

2x Nvidia A1000 GPU's 8 GB GDDR6 with ECC - 128-bit - 192 GB/sec - 1x Encode / 2x Decode - 2307 CUDA, 72 Tensor, 18 RT

RAM

16GB DDR5

OS

Microsoft Windows 11 IoT Enterprise (LTSC)

VMS/OS Drive

Dedicated 480GB Enterprise 3D TLC Flash SSD NVMe
Dedicated for OS/VMS.

Hard Drives

Optional upgrade: 1x Enterprise Class 7200 RPM, SATA 6Gb/s 3.5" HDD's., 2.5M MTBF. 600k Duty Cycle, Certified 24/7 Operation

Network

2 x 10Gb Ethernet (10 Gbps/5 Gbps/2.5 Gbps/1 Gbps/100 Mbps) RJ45 ports

Display Ports

Primary Ports from GPUS:
8x Mini DP with 4x Mini DP to DP Adapters included

AMD Radeon™ Graphics support:

- 1 x USB Type-C® port with DisplayPort video output
- 1 x HDMI port

Front IO Ports

2 x USB 3.2 Gen 2x2 Type-C, 2 x USB 3.0, HD Audio

Rear IO Ports

3 x USB 3.2 Gen 2 Type-A ports (red), 4 x USB 3.2 Gen 1 ports
4 x USB 2.0/1.1 ports

Maximum Bandwidth

225Mb/s maximum bandwidth for video decoding and display. VMS and configuration dependant.

Monitor Support

Up to 8x Monitors (monitors not included). VMS and configuration dependant. More than 4 monitors may reduce total bandwidth.

A Microsoft Windows license is included with all systems. Systems ship with Microsoft Windows operating systems pre-installed without media, but not setup which is the responsibility of the installer. Video management software & other application installers are included but NOT installed, on the OS drives. Installation, and configuration of the video management software and any other application to be performed by installer/integrator or end user. The installer of the system must install the appropriate VMS version, do all configuration and setup of users and cameras, databases etc.

General Information

Power Specifications

Up to 850W Gold ATX Power Supply (100-240Vac, 9-4.5A, 50-60Hz,)

Max Power Consumption

850W up to 80% efficient (Gold)

Dimensions

470 x 230 x 518.5mm | 18.5" x 9.6" x 20.3" inches

Weight

Gross Weight : 9.6 Kg, 24.5lb

Warranty

3 Years Advanced Warranty with NBD Advanced Parts Replacement of Field Replaceable Units (FRUs).

Environmental Information

This unit is intended for stationary server room and office use, according to the conditions stated below.

Operating Temperatures

10- 35 C

Humidity

20 – 90% relative humidity (non-condensing)

Regulatory Information

Safety & Emission Standards

BSMI, CE, FCC(Class B), Energy Star.

Trade Compliance

NDA Compliant, no disclosures

Camera Count Matrix - Up to 225Mb/s

Note: * Performance parameters = 4MP & 8MP cameras @15fps on 4 monitors. Actual performance may vary depending on the VMS. A VMS may require monitors be load balanced across GPUs, or may require all monitors on one GPU.

Resolution	FPS	Cameras	Bandwidth
4MP	H.264	48	225Mb/s
4MP	H.265	64	147Mb/s
8MP	H.264	20	202Mb/s
8MP	H.265	48	225Mb/s

The camera counts listed are approximations within the limits of the maximum bandwidth supported by the workstation. Depending on camera type, compression, image complexity and other factors camera counts can vary. Performance is always VMS dependant. Testing performed with 4x monitors. Connecting additional monitors may reduce total camera counts.

For more information visit: Arxys.com/videox-appliances
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VMS licensing and support is not included and is provided by the security partner or customer.

AMD
RYZEN