

HIGH-PERFORMANCE WORKSTATION

Client Computer

VW46



ECA-VW46 is an enterprise-class live display system with high performance display technology for Video Workstation and Video Wall purpose. Effective surveillance is only as good as the system that can manage all the live video feeds. VW series combines superior processing ability with Tower Mount form factor engineered to deliver outstanding display performance. The system goes further to allow efficient management and real-time analysis of surveillance systems. You can configure VW into Video Workstation for operator to use as command and control, or Video Wall client for automated multi screen display.

- Processing power up to 10 cores 20 threads and 32GB DDR4 ECC memory.
- Video display optimized for surveillance purpose. Live display up to 150CH live display decoding process.
- Support up to 2 monitors for video wall matrix display.
- Automatic network fail-over feature to ensure uninterrupted recording operations.
- 3 years next business day part replacement onsite warranty, with TrueBlue Care Premium support pack.

Hardware

<p>Storage</p> <p>1unit internal 256GB SSD dedicated for OS & VMS Software use.</p> <p>Two (2) internal 3.5inch SATA HDDs bay for dedicated video backup support up to 18TB capacity per HDDs.</p>	<p>Monitor Outputs</p> <p>Onboard: Intel® UHD Graphics 630. 1GB shared memory HDMI x 1port. Ver 2.0a. Max Resolutions 4096x2160 @60Hz (4K) DP x 1port. Ver 1.2. Max Resolutions 4096x2160 @60Hz (4K) VGA x 1port. Max Resolutions 1920x1200 @60Hz</p> <p>Multi Display Support: 3 monitors Support 6 HDMI at Full HD outputs (with optional adapter) Designed for Video Wall Matrix.</p>
<p>Display Performance</p> <p>Client mode. Display in single machine. VW45E: 63CH live display. VW45P: 150CH live display. Details Report: http://gsf.ms/LB202104210944.pdf</p>	
<p>Processor</p> <p>VW44E: Intel® Xeon W-1250. 6 core 12 threads. VW45W: Intel® Xeon W-1290. 10 core 20 threads.</p>	<p>Memory</p> <p>4C / 4S: DDR4 16GB 5C / 5S: DDR4 32GB</p> <p>NOTE: VW45E & VW45P come with ECC system memory.</p>
<p>Network</p> <p>Dual LAN (RJ45 connector) 10/100/1000 Base-T Gigabit Ethernet . Support Redundant Fail-over. LAN1: Intel® I225LM with 10/100/1000/2500 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps.</p>	<p>Audio</p> <p>Realtek ALC887 HD , High Definition Audio. Line-out. 3.5mm jack (green). Mic-in. 3.5mm jack (pink). Support Audio over HDMI and DP</p>
	<p>Security Key</p> <p>2048-bit RSA encryption. Uniquely paired to machine specific authenticator token.</p> <p>Physical Key Type: USB 2.0 Type-A. Virtual Key Type: 6 digit OTP access code. Refreshed every 30 seconds.</p>

Software

<p>Operating System (OS)</p> <p>Triple-Layers ecaOS version 6 64bits OS architecture powered by Microsoft® Windows 10 Enterprise LTSC</p> <p>Protection: Built-in SHIELD™ technology, write protected OS. Recovery Step: SOFT and HARD reset Recovery Layer: FACTORY and DEPLOYMENT layers</p>	<p>App Monitor</p> <p>User configurable: ADD, DELETE application monitoring watchdog. Type: Application or Script (support arguments command) Launch Delay: First execution delay for x seconds (user configurable) Instance: Force single instance, terminate the rest, or allow multi instance. Monitoring: Terminate App if no respond. Auto Respawn: Auto respawn app/script after close or terminated.</p>
<p>System Recovery</p> <p>FAST RESET: Reboot from windows OS, load fresh ecaOS from SSD (SHIELD must be enabled). This reset recovered most daily operation errors like miss places settings, or trojan attacks. Recovery time about 1 minute.</p> <p>SOFT RESET: Command by Security Key, perform by Heart-beat. This reset recover the whole ecaOS, and it solve problem like windows OS corrupted or changes or change of new SSD. Recovery time about 10 minutes.</p> <p>HARD RESET: Same as soft reset, but recovery based on factory default without any user software and settings.</p>	<p>System Monitoring</p> <p>CPU: Usage (%) threshold value for x minute of time MEMORY: Usage (%) threshold value for x minute of time NETWORK TX/RX: Usage (Mbps) threshold value for x minute of time DISK WRITE/READ: Usage (Bytes) threshold value for x minute of time</p> <ul style="list-style-type: none">• With automatic value prediction• With notification and email alert• Optional action to reboot or shutdown the machine (CPU and Memory) <p>Machine shutdown authorization: Security Key only Machine stability monitoring: Notify if reboot more than 3 times within 30 minutes. Auto reboot if system halt / blue screen. AC power monitoring: Alert & log if unexpected AC power lost, auto power up when AC power resume.</p>
<p>Disk Health</p> <p>Frequency of health check: Automatic daily. Disk Check: OS SSD and 2 internal HDD. Notification: Email alert with detail disk health information. Disk Health: Disk health %, Power on time, Temperature, S.M.A.R.T values analysis. SSD ware, HDD bad sector, etc.</p>	<p>Disk Guard</p> <p>Automatic log and notify when disk was REMOVED or ADDED. Track all individual HDD SERIAL NO. for evidence trace. Disk Info: Serial number, Firmware version, Model number, Controller information and Partition details.</p>

Electrical

Power Input & Consumption

Line voltage: 100 - 240V AC (auto select)
Frequency: 50-60Hz, single phase
Power output rated: 600W (max)
Power Efficiency: >82% 80PLUS rated.

Continuous power consumption for UPS calculation
Platform Only: 60W
Platform with 02 HDD: 100W.

Power Protection & Safety

Over Voltage Protection (OVP)
Short Circuit Protection (SCP)
Over Power Protection (OPP)
Over Current Protection (OCP)
Under Voltage Protection (UVP)

PSU will automatic shutdown if fault above detected.
RESET: Remove all fault, with AC input cycle ON/OFF reset > 3seconds.

Environmental

Operating Temperature

Operating Temperature: 10 ~ 45 °C
Storage Temperature: -40 ~ 65 °C

Humidity

Operating Humidity: 10% ~ 85% (Non-condensing)
Storage Humidity: 10% ~ 85% (Non-condensing)

Dimension & Weight

Size & Weight

Machine Only:	Packaging Box:
Depth : 465mm	Depth : 600mm
Width : 430mm	Width : 560mm
Height : 176mm	Height : 295mm
Weight: 13.1KG	Weight: 18.5KG

Form Factor & Mounting Requirements

Tower mount (Desktop)
Come with rail mounting kits. (optional)

Rail mount requirement:
Minimum vertical mounting column front to back is 600mm depth.

Service & Warranty

Warranty Support & Customer Care

1 year standard manufacturer warranty. Carry-IN.

TrueBlue Care. Upgrade to 3 years hardware warranty, with next business day carry-IN part replacement service. (Service Code: TBC)

TrueBlue Care Premium. Upgrade TBC to Premium with hardware parts & labour onsite replacement. (Service code: TBC Premium)

During warranty customer care:

- Phone and Email Support (During working hour only)
- Remote Support (During working hour only)

TrueBlue® Service

TrueBlue TNC (Service Code: TNC)
Deployment Service: Professional onsite testing and commissioning.
Training: User operation training.

TrueBlue Onsite (Service Code: TBO)
Incident based pay-per-request onsite service support.

TrueBlue Maintenance (Service code: TBM)
ECA preventive maintenance service. We recommend a minimum 1 year service interval for each ECA deployed.

Models & Configurations

ECA-VW46**PMO-00HSXXXSSSSS**

ECA-VW46: Generic ECA Platform 4.6

Configuration (Processor): **P**

E: Intel® Xeon W-1250. 6 core 12 threads.
W: Intel® Xeon W-1290. 10 core 20 threads.

Configuration (RAM): **M**

4C / 4S: DDR4 16GB
5C / 5S: DDR4 32GB

Model with Xeon processor installed with ECC memory.

Configuration (OS): **O**

C: Windows 10 Enterprise LTSC OS
S: Windows Server 2022 OS

Configuration (Storage): **00HSXXX**

00 Hot swap Bay, with XXX factory pre-installed HDD capacity.

Configuration (Software): **SSSSS**

Factory pre-loaded software code.



Ports:

1. Com port | 2. DisplayPort | 3. HDMI | 4. VGA | 5. LAN1
6. USB3.2 x 4 | 7. LAN2 | 8. MIC | 9. Audio Out

