



WalIMN/04D

MODULAR VIDEO WALL CONTROLLER

Model Number: 1904261758



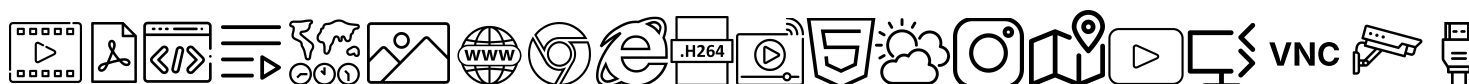
Advanced Visualization Solutions for Professional and Mission-Critical Applications

Distributed, Scalable, and Synchronized Video Wall Controller

WalIMN/04D is a modular display management platform developed for professional control rooms and mission-critical visualization environments. It enables multiple screens to operate as one coordinated workspace, allowing operators to position, resize, monitor, and manage different content sources across the entire display area.

The system distributes video and graphics processing across individual **WalIMN/04D** nodes connected to the existing network infrastructure. Additional nodes can be introduced whenever more displays or processing capacity are required, making the platform suitable for both compact monitoring rooms and large command-and-control installations.

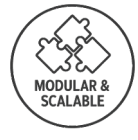
WalIMN/04D can receive and display H.264 and H.265 network video, low-delay visual feeds, browser-based applications, dashboards, and locally stored media. Video, graphics, web content, and related audio can be arranged and controlled within the same operational environment, providing a flexible and unified solution for professional video wall applications.



Features

- ▶ Up to 256(*) Full HD Screen support with multi (distributed) controller
- ▶ Up to 4(*) x 4K Physical Input support with single controller
- ▶ IP base controller
- ▶ Display up to 40(*) x 1080p@30Hz IP Stream hardware decoding support for single controller
- ▶ 4K/8K Hardware Decoding capability
- ▶ LDAP/AD user privilege support
- ▶ 24/7 working support,
- ▶ Control Path Orchestration platform support
- ▶ Completely web-based (http) software
- ▶ Advanced API integration, support for over 500 known protocols
- ▶ Perpetual licensing and unlimited user support for one controller
- ▶ Advanced soft KVM support
- ▶ Advanced user authorization and regional authorization support

(*) Must be need additional Hardware modules



Frame-Accurate Multi-Screen Display Coordination

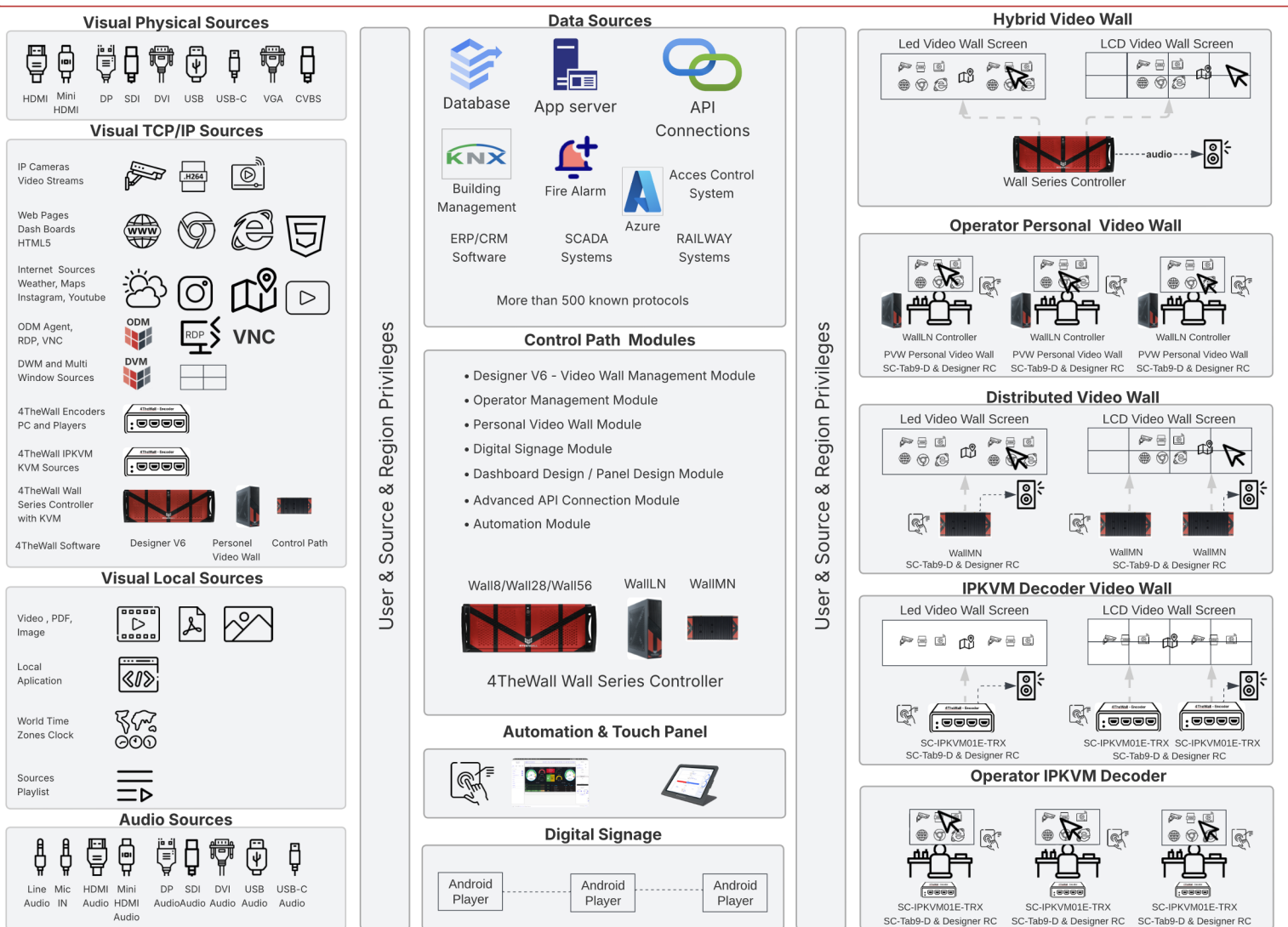
WaIMN/04D keeps every screen in the installation aligned through network-level timing control based on the Precision Time Protocol. Frames are presented across the display array at the same moment, helping maintain visual continuity and preventing split images or timing inconsistencies at screen boundaries.

The timing relationship between WaIMN/04D processors is established over the IP network. Therefore, the installation does not depend on dedicated frame-lock cabling or separate synchronization equipment.

Each processing node drives four HDMI displays at resolutions up to 4K with a 60 Hz refresh rate. The modular design allows the installation to be extended progressively:

- A coordinated display environment with as many as 64 UHD screens
- Configurations reaching 256 Full HD screens through supported multi-output display adapters

System expansion is achieved by integrating additional WaIMN/04D processing nodes into the network. Previously installed equipment remains operational, while every new node contributes extra display connections and processing resources to the overall platform.





DEFENSE - Visualize Intelligence and Collaborate Securely

FEDERAL - Dynamic Collaboration for Federal Organizations

FINANCIAL SERVICES - Collaborative Defense Against Outages and Intrusions

Applications

- Command Control Rooms, Field Operations Center
- Crisis and Emergency Centers,
- Security (CCTV) Monitoring Centers,
- SOC (Security Operation Center) and NOC (Network Operation Center) Centers,
- Infrastructure (Tunnel, Highway Monitoring Center etc) and Transportation (Railway, Air Traffic control etc) Systems,
- Enterprise Business (Meeting Rooms, Executive Offices, Conference Halls,)
- Special Visualization Areas
- Classrooms & Auditoriums Data Centers

WallMN/04D operates as part of the Control Path Orchestration Platform and inherits all of Control Path's advanced capabilities:

- Real-time data collection
- Device communication and API integration
- Trigger/alarm response
- Third-party hardware and software compatibility

Transforms WallMN/04D from a simple controller to a multi-functional intelligent communication system. It not only interacts with the video wall ecosystem, but also integrates with external devices and systems in response to real-world sensors such as alarms, sensors or automatic signals

Modular, 24/7-Optimized Video Wall Controllers for Every Application

The **WallMN/04D** product family includes multiple hardware models designed to meet a wide range of project needs and environments:

SubWall : The **WallMN/04D** control unit can be used as more than one sub-control unit. Thus, more than one video wall screen can be managed with a single control unit. All Subwall use same sources

WallMN/04D Redundant Power Supply, Raid1 HDD Configuration, Bridge Mode Network Port support

All units are purpose-built for **24/7 mission-critical operation** and can be **modularly designed** according to the required number of input and output ports. Thanks to their scalable architecture, WallMN/04D controllers deliver outstanding reliability, flexibility, and performance in all sizes of video wall deployments.

Supported Stream formats : Protocols: HTTP, RTSP, RTP, UDP Containers: MPEG4 part 1, MPEG2-TS, WMV, MOV Distribution: unicast & multicast
 Codec: H.264/H.265 (MPEG4 Part 10 AVC), VC-1, MPEG2 Part 2 & MJPEG



	WallMN/04D
Purpose of use	Small video wall with limited space and need for GPU and decoding
Mounting Type	Desktop / VESA
Physical Inputs	5 x USB 1 x Microphone 3.5 mm
Max Physical Outputs	4 x 4K@60Hz - HDMI2.0 1 x Line Audio 3.5 mm Stereo
Supported Source Types	Visual TCP/IP Sources, ODM V3, Web / Dash Board, Audio Sources
HDCP Support	Yes
IP Decoding (Hardware) Capability (simultaneously)	1x8K60 or 6x4K60 or 12x4K30 or 18x1080p60 or 40x1080p30 or 34x720p60 or 72x720p30
IP Decoding (Software) Capability (simultaneously)	
Stream Protocols and Codecs	RTSP, SRT, MPEG-TS
SubWall Support	-
Operating System	Linux
CPU	-
RAM	-
SSD	-
Backplane	-
Network	1x2.5GbE RJ45
Power Supply	1 x 90 Watt/DC19V (110V- 220V) Power Supply
Redundant Options	-
Operating Conditions	-0 Celsius ~ 40 Celsius Celsius, 10% to 90% non-condensing
Working Humidity Range	20~80% RH (no condensation)
Storage Conditions	-20 Celsius ~ 60 Celsius, 10% to 90% non-condensing
ESD Protection	±8kV (air-gap discharge) ±4kV (contact discharge)
Dimensions	-
Weight	-
MTBF	100.000 hours
BTU	700BTU to 900BTU
Software	Control Path, Designer D6
Certification	TAA/CE/EMC/LVD/RoHs
7/24 Support	Yes
Package Content	1 x WallMN/04D Chassis, Accessories Box, Power Cable , User Manual