IONODES

ION-R300

Triple Monitor Secure Display Station

The ION-R300 is a dedicated fanless & compact video wall appliance designed specifically for use with any H.265/H.264/MJPEG video source such as IP cameras and encoders. The ION-R300 is capable of decoding H.265/H.264 streams at resolutions up to 4K for display on three 4K monitors. The device is capable of supporting up to 96 video sources and decode and display simultaneously up to 48 IP cameras / encoder sources.

Easy Installation.

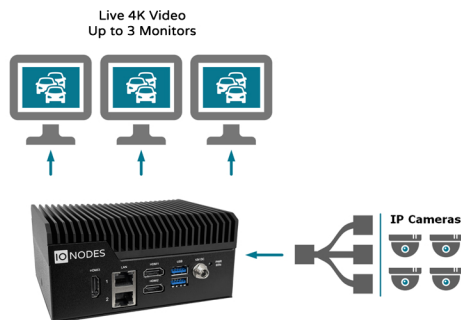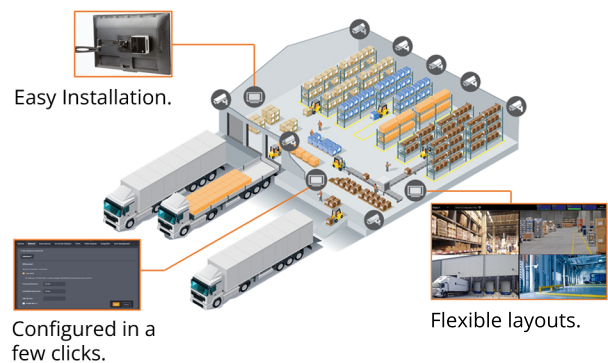Configured in a few clicks.

Flexible layouts.

Features

- Ultra compact design / VESA mount
- Display video on up to three monitors
- ONVIF camera discovery & RTSP source support
- Connect up to 96 IP cameras / encoder sources
- Display up to 48 IP cameras
- Layouts from 1 x 1 to 4 x 4, per monitor
- Supports up to 8 user configurable static views
- Supports up to 4 user configurable view sequences
- Supports web tiles for embedding external content
- Supports image carousels and video clip tiles
- High performance hardware video decoding
- Support for Panasonic WV-CU980 network keyboard
- PERCEPT Cloud integrated

A secure way to display live video

The ION-R300 Secure Display Station can deliver live video on a variety of monitors without the cost, complexity and security risk of a client workstation. This is ideal in public areas, warehouses and in remote sites or facilities with no trained security staff.

Built to last

The ION-R300 is a fanless design using the highest quality components and a software environment built from the ground up to offer a simple, yet robust user experience. The ION-R300's dedicated embedded software environment ensures consistent and reliable operation even after power outages.

Live 4K Video
Up to 3 Monitors

IP Cameras

PERCEPT CLOUD
Redefining Systems Management

Centralizing the management of your fleet of Secure Display Stations empowers you with an enhanced user experience, providing the tools and features you need to oversee and operate your devices seamlessly from a single pane of glass.
Visit perceptcloud.io to start your journey by creating your PERCEPT Cloud account in a few simple steps.

ION-R300 Specifications
Triple Monitor Secure Display Station

System

Network	2 x 10/100/1000/2500 Base-T Ethernet port(s) RJ45
USB	2 x USB 2.0 (Mouse, Keyboard)
Video Outputs	3 x HDMI 2.0b
Boot Drive	Solid State Boot Drive (SSD) * Read-only, secure
PTZ Keyboard	Support for Panasonic WV-CU980 Network Keyboard

Video Processing

Resolution	Decode IP streams up to 4K resolution
Codec	H.265 (HEVC) / H.264 (MPEG-4 AVC) Motion JPEG
Data Rates	Up to 200 Mbps total for all streams
Latency	< 200 ms
Layouts	1x1, 2x2, 3x3, 4x4, 1+2, 2+3, 1+5, 5+1 including vertical layouts and more...
Views	Up to 8 user-configurable static views Up to 4 user-configurable view sequences
Video Sources	Up to 96 (max. 16 shown per monitor)
Web Tiles	Supported; max. 3 recommended

Reference Performance

Dual Display	4K/30 Streams:	8
	1080p15 Streams:	32
	1080p30 Streams:	26
	720p30 Streams:	32
Triple Display	4K/30 Streams:	8
	1080p15 Streams:	26
	1080p30 Streams:	26
	720p30 Streams:	48

Protocols

Networking	IPv4, UDP, TCP, IGMP, ARP, DHCP, DNS, HTTP, HTTPS, BONJOUR, NTP
Camera Interface	ONVIF discovery or Generic RTSP
Management	HTTP, HTTPS, Bonjour, ION API
Security	Onboard Trusted Platform Module (TPM) Digest Authentication, SSL Support for 802.1X, Configurable password policy, Protection against brute-force attacks, Protection against clickjacking and cross-site scripting

Software Features

Visual Diagnostics	CPU, GPU, Memory, Network (ETH)
On-Screen Display	Supported; max. 4 strings per OSD entry
Web Interface	Web GUI for remote config. / maintenance
Programming API	Bonjour discovery protocol ION API and Genetec API for configuration
Software Update	Fault-tolerant, remote accessible
Cloud Management	PERCEPT Cloud integrated

Mechanical / Environmental

Dimensions	5.28" x 2.36" x 4.13" (W x H x D)
Power Input	12V AC-DC power adapter (included)
Power Consumption	30W on average / TDP
Operating Temp.	0°C to 40°C
Warranty	2 Years Standard
Compliance	CE, FCC Class A, RoHS, Reach, TAA, NDAA

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