IO NODES

ION-R200

Dual Monitor Secure Display Station

The ION-R200 is a dedicated & 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-R200 is capable of decoding H.265/H.264 streams at resolutions up to 4K for display on two 4K monitors (HDMI). The device is capable of supporting up to 96 video sources and decode and display simultaneously up to 32 IP cameras / encoder sources.

Easy Installation.

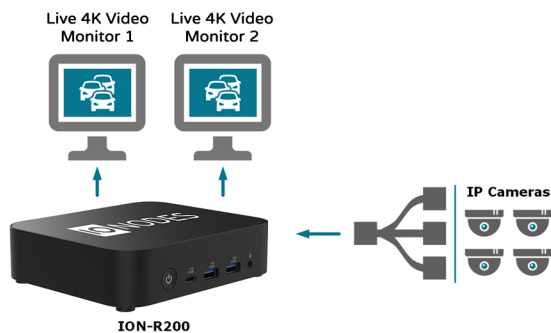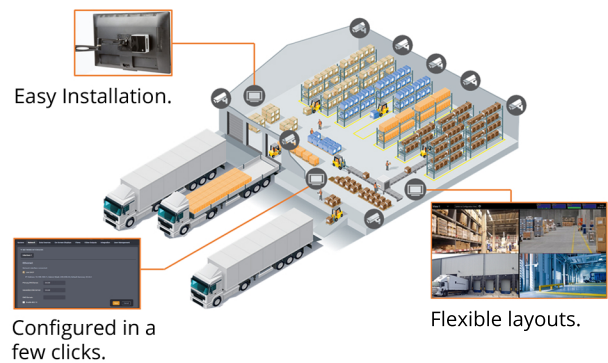Configured in a few clicks.

Flexible layouts.

Features

- Ultra compact design / VESA mount
- Dual monitor
- ONVIF camera discovery & RTSP source support
- Support up to 96 IP cameras
- Display up to 32 IP cameras
- High performance hardware video decoding
- 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
- Support for Panasonic WV-CU980 network keyboard
- PERCEPT Cloud integrated

A secure way to display live video

The ION-R200 Secure Display Station can deliver live video on a variety of monitors without the cost, complexity and security risk of a client work-station. This is ideal in public areas, warehouses and in remote sites or facilities with no trained security staff.

Built to last

The ION-R200 is designed using the highest quality components and a software environment built from the ground up to offer a simple, yet robust user experience. The ION-R200's robust embedded software envi-ronment ensures consistent and reliable operation even after power outages.

Live 4K Video Monitor 1

Live 4K Video Monitor 2

IP Cameras

ION-R200

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.

System

Network	1 x 10/100/1000/2500 Base-T Ethernet port(s) RJ45 1 x 802.11ax WiFi USB to Ethernet adapter available
USB	5 x USB Type A (Mouse, Keyboard) Front: 2 x USB 3.2 Rear: 2x USB 3.2 and 1x USB 2.0
Video Output	1 x HDMI 2.1 (TMDS) 1x Display Port 1.4 via USB-C 1x Display Port 1.4 (HDMI adapter included)
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 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)

Reference Performance

Single Display	4K/30 Streams:	8
	1080p30 Streams:	16
	720p30 Streams:	16
Dual Display	4K/30 Streams:	8
	1080p30 Streams:	26
	1080p15 Streams:	32
	720p30 Streams:	32

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	Basic / 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 + WIFI)
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	Integrated to PERCEPT Cloud

Mechanical / Environmental

Dimensions	5.31" x 1.42" x 4.53" (W x H x D)
Mounting	VESA Mount (included)
Power Input	19V AC-DC power adapter (included)
Power Consumption	12W on average / TDP
Operating Temp.	0°C to 35°C
Warranty	3 Years Standard
Compliance	CE, FCC, RoHS, IEC, UL, ETSI, CSA, WEEE, NDAA