IONODES

ION-R100S

HD Secure Display Station

The ION-R100S is a dedicated fanless & compact video decoder designed specifically for use with any H.265/H.264/MJPEG video source such as IP cameras and encoders. The ION-R100S is capable of decoding H.265/H.264 streams at resolutions up to 4K for display on an HD monitor (HDMI). The device is capable of simultaneous decoding and display of up to 16 IP video streams.

Easy Installation.

Configured in a few clicks.

Flexible layouts.

A secure way to display live video

The ION-R100S 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-R100S 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-R100S' robust embedded software environment ensures consistent and reliable operation even after power outages.
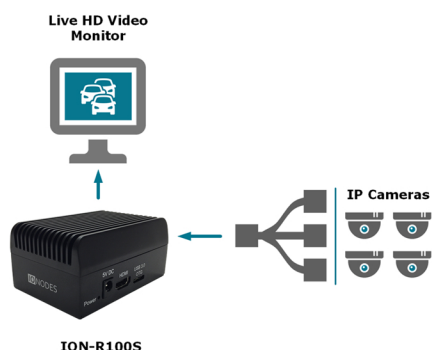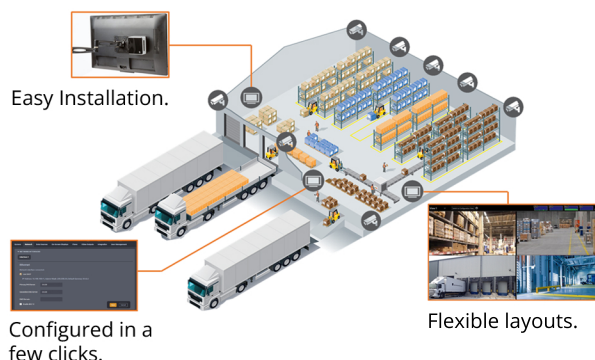
Features

- Ultra compact & fanless design
- Single HD monitor output (HDMI)
- ONVIF camera discovery & RTSP source support
- Display up to 16 cameras
- High performance hardware video decoding
- Layouts from 1 x 1 to 4 x 4
- Supports up to 5 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

Live HD Video Monitor

IP Cameras

ION-R100S

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 Base-T Ethernet port(s) RJ45 USB to Ethernet adapter available
USB	1 x USB 3.0 (Future expansion) 4 x USB 2.0 (Mouse, Keyboard)
Video Output	1 x Full Size HDMI 1.4 * Single screen: 1080p recommended * 4K output supported with limitations
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 42 Mbps (total for all channels)
	Ex. 1 Stream @ 4K/15FPS
	        7 Streams @ 1080p30
	        12 Streams @ 720p30
	        16 Streams @ D1/30FPS
	(max. 2 streams when HDMI output in 4K)

Latency	< 200 ms
Layouts	1x1, 2x2, 3x3, 4x4, 1+2, 2+3, 1+5, 5+1 and more...
Views	Up to 5 user-configurable static views Up to 4 user-configurable view sequences
Video Sources	Up to 32 (max. 16 on-screen)
Web Tiles	Supported; max. 1 recommended

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
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	3.74" x 2.58" x 1.77" (W x D x H)
Mounting	VESA Mount (included)
Power Input	5V AC-DC power adapter (included) * North America, EU, UK, Australia
Power Consumption	6W on average / TDP
Operating Temp.	0°C to 50°C
Warranty	2 Years Standard
Compliance	CE, FCC Class A, RoHS, REACH

IO NODES

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