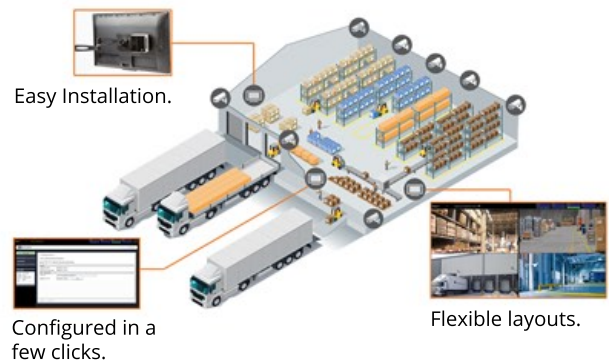# IONODES

ION-R100S

HD Secure Display Station™

The ION-R100S is a dedicated fanless & compact video decoder designed specifically for use with any H.264/MJPEG video source such as IP cameras and encoders. The ION-R100S is capable of decoding 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.

Features

- Ultra compact & fanless design
- Single HD monitor output (HDMI)
- Onvif camera discovery & RTSP source support
- Low Power Consumption
- Supports up to 32 IP cameras / encoder sources
- 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

Easy Installation.

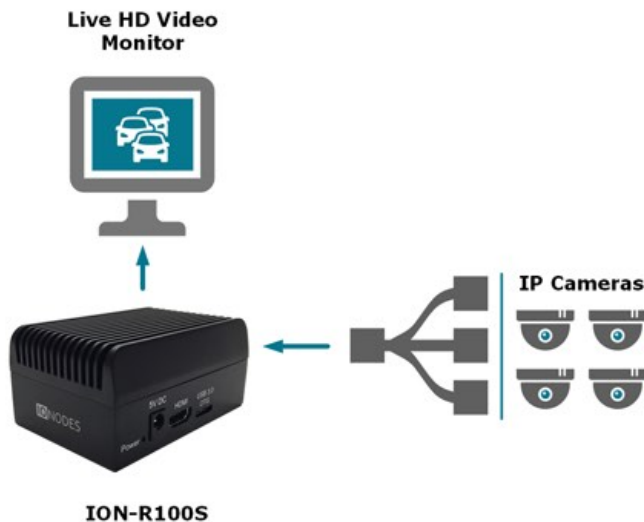Configured in a few clicks.

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.

Live HD Video Monitor

IP Cameras

ION-R100S

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.

System

Network	1 x 10/100/1000 Base-T Ethernet port(s) RJ45
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: max. 1080p resolution
Boot Drive	Solid State Boot Drive (SSD) * Read-only, secure

Video Processing

Resolution	Digital out (HDMI): up to 1080p30/720p60
Codec	H.264/MPEG-4 AVC (up to high profile) Motion JPEG

Data Rates	Up to 54 Mbps (total for all channels)
	Ex. 9 Streams @ 1080p30 (6 Mbps)
	      10 Streams @ 720p30 (4 Mbps)
	      12 Streams @ D1/30FPS (2 Mbps)

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
Streams	Up to 32 (max. 16 on-screen)
Web Tiles	Supported; max. 1 recommended

IO NODES

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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, SNMP
Security	Basic / Digest Authentication, SSL

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

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	Approx. 6W
Operating Temp.	0°C to 50°C
Warranty	2 Years Standard
Compliance	CE, FCC Class A, RoHS, REACH