ION-R100

Quad View H.264 HD Video Decoder

The ION-R100 is a dedicated fanless & ultra compact video decoder designed specifically for use with any H.264/MJPEG video source such as IP cameras and encoders. The ION-R100 is capable of decoding H.264 streams at resolutions up to 1080p30 / 720p60 for display on an HDMI monitor or composite output (BNC). The device is also capable of a quad view, 2x2 layout, enabling simultaneous decoding and display of up to four H.264 streams at D1@30FPS.

Features

- Fanless Design / Aluminum
- Selectable Video Output (BNC / HDMI)
- Low Power Consumption
- Powered over Ethernet (Poe)
- Direct Connect to IP Cameras
- Point to Point Link Capable (audio, video, serial)
- Software and Hardware Watchdogs
- Web Based Administrative Interface
- Third-Party VMS Integration
- Layouts: 1x1, 2x2, camera sequence

Standard / Integrated Interfaces

Network	1 x 10/100 Base-T Ethernet (with PoE support)
Video Output	HDMI v1.3 for digital video and audio BNC for analog composite video * Only one output can be used at a time
Serial Port	Single serial port (RS422/485) (terminal bloc)
I/O	Two closure contacts (terminal bloc) Single output relay contact (terminal bloc)
Audio	2 channel audio, 1 x input + 1 x output (3.5mm)

Video Performance

Video Resolution	Analog out (BNC): up to D1 resolution Digital out (HDMI): up to 1080p30/720p60
Video Compression	H.264/MPEG-4 AVC (up to high profile) Motion JPEG
Data Rate	Up to 6 Mbps (total for all decoded channels)
Layouts	Supports 1x1, 2x2 and camera sequence Can display up to 4 streams @ D1 resolution

Audio

Standards	Uncompressed PCM High-fidelity AAC-LC G.711

Protocols

Networking	IPv4/v6, UDP, TCP, IGMP, ARP, DHCP, DNS, NTP
Streaming	RTP, HTTP
Management	HTTP, HTTPS, Bonjour, ION API, SNMP
Security	Basic / Digest Authentication, SSL

Software

Web GUI	System configuration and maintenance
Programming API	ION API
System Monitoring	Video signal, temperature, memory, CPU, network
Software Update	Fault-tolerant, remote accessible
Other Features	Text overlay / OSD

Mechanical / Environmental

Dimensions	3.66 in x 1.10 in x 3.21 in
Power Input	12 VDC on terminal block or PoE 3 - 4 Watts power consumption
Operating Temp.	0C to 70C
Warranty	2 Years Standard

IONODES