IO NODES

ION-E100-HD

HDMI to H.264 IP Video Encoder

The ION-E100HD is a dedicated fanless & ultra compact video encoder designed specifically for use with most HDMI sources such as desktop computer outputs, server outputs and HDMI cameras. The ION-E100-HD is capable of encoding H.264 streams at resolutions up to 1080p30 / 720p60 for transmission over IP networks, to NVR servers for recording or IP video decoders for display.

Features

- Compact Fanless Design
- HDMI Video Input
- Supports up to 1080p30/720p60
- Low Power Consumption
- Powered over Ethernet (PoE)
- Onvif Profile S
- Point to Point Link Capable (audio, video, serial)
- Software and Hardware Watchdogs
- Web Based Administrative Interface
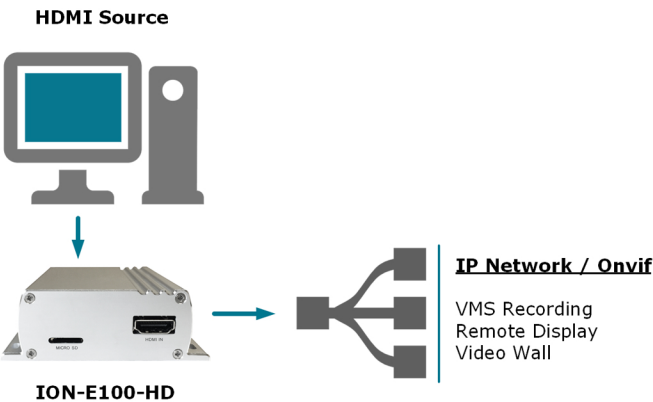- Third-Party VMS Integration

Built to last

The ION-E100-HD 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 system's robust embedded software environment ensures consistent and reliable operation even after power outages.

Record activity from any PC

The ION-E100-HD allows you to easily capture, compress to H.264 and stream any HDMI video source onto your secure network for recording into any Onvif-compatible VMS platform. By capturing video directly from the HDMI output, you are certain to record all activity from any PC or other HDMI source.

HDMI Source

IP Network / Onvif
VMS Recording
Remote Display
Video Wall

ION-E100-HD

Standard / Integrated Interfaces

Network	1 x 10/100 Base-T Ethernet (PoE support)
Video Input	HDMI for digital video and audio
Serial Port	Single serial port (RS422/485)
I/O	Two closure contacts Single output relay contact
Audio	2 channel audio, 1 x input + 1 x output

Video Performance

Resolution	Digital input (HDMI) up to 1080p30/720p60
Codec	H.264/MPEG-4 AVC (up to high profile) Motion JPEG
Data Rate	64kbps to 6 Mbps per stream
Delay	< 200 ms

Audio

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

Storage

Internal	One internal micro-SD connector

Protocols

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

Software

Web GUI	System configuration and maintenance
Programming API	Onvif, Genetec API, PSIA, ION API
Media Recording	Recorded ASF audio/video to microSD
System Monitoring	Video signal, temperature, memory, CPU, network
Software Update	Fault-tolerant, remote accessible
Other Features	Text overlay / OSD, Email notifications

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