

Raven-M



2 Channel Intelligent Video Server

The Raven-M is a compact, 2-channel intelligent video server delivering high quality H.264, MPEG-4 or MJPEG video compression plus advanced video analytics from the leading vendors. As a standalone leading Edge Solution or part of a multi-blade rack mounted 19" 3U system, the Raven-M transforms standard analog video surveillance cameras into a high performance video streaming and content analysis product. The Raven-M video server is equipped with PTZ control, TTL inputs and relay outputs. The alarms, relays and serial ports allow users to remotely manage events. It is available in two build configurations, extended temperature or commercial grade.

The Raven-M is powered by the Mango IVS™ Software. The Mango IVS™ framework enables the seamless integration of third party video analytics software creating a truly intelligent edge device. With its advanced features, the Mango IVS™ allows recording live events, motion detection and full command and control of video parameters such as resolution, bit rate, frame rate and the video analytics embedded into the server. The Mango IVS Software enables on board rule management creating a unique standalone solution that can configure and process analytic rules, and notify the client by posting the violation data through an XML protocol.

The Raven-M includes the IP camera support feature transforms

Key Features:

- Dual Video Port Encoder, with Single Video Output
- Mango Multimedia Streaming Engine (MMSE)
- Web Server Application
- Multi Streaming - H.264, MPEG-4 and MJPEG Simultaneously
- DVD Image Quality
- 4CIF Down to QCIF Video Resolution at full frame rate
- On-Board Rule Management
- OSD Engine
- End to End Low Latency
- Bi-Directional Audio
- IP Protection
- PTZ Control
- Alarm I/O via TTL and Relay
- Available in Commercial or Extended Temperature Grade

the encoder into an IP device that receives encoded video streams from 3rd party IP cameras, analyzes the video content and adds intelligence to existing standard IP video infrastructure.

The integration of 3rd party video analytics with the Mango IVS™ software and hardware system creates an ideal video surveillance solution that reacts to threats using predefined rules, and issues alerts accordingly.

The Raven-M intelligent video server includes analytic algorithms which contain the following features:

Video Analytics Features:

- Object Classification
- Tripwire Event Detection
- "Enters" Event Detection
- "Exits" Event Detection
- "Inside of" Event Detection
- Loitering Event Detection
- Gross Change Event Detection
- Object Size Filters
- Object Size Change Filters

Technical Specification:

VIDEO

Video In

Video Out

Resolutions

Compression

Frame Rate

Bit Rates

Connector

AUDIO

Audio In

Audio Out

Compression

Connector

NETWORK

Interface

Protocols

Connector

ALARMS

Input

Output

Connector

SERIAL PORT

Interface

Connector

PTZ Support

SYSTEM

Processor

Flash

SDRAM

LEDs

POWER

Supply Voltage

ENVIRONMENT

Form Factor

Operating Temperature

Certification & Regulation

WARRANTY

WEIGHT

DIMENSIONS

Two Composite BNC or S-Video 1 Vpp 75 ohms NTSC/PAL

Single Composite BNC

4CIF Down to QCIF

H.264, MPEG-4, MJPEG

1-30 fps programmable

Configurable 32 Kbps to 6 Mbps

BNC

1 Stereo or 2 Mono

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MP3, G.711

2 x 3.5mm Audio Jacks

10/100 Fast Ethernet

RTP, RTSP, HTTP, UDP, TCP/IP

RJ-45 Connector

4 TTL

4 DPDT Type relays (up to 1 Amp @ 30 VDC Load)

24 Position Terminal Block

RS232, RS422/485 UART Outputs

9 pin D-Type

Yes

1 TI DM642 @ 600/720 MHz

4 MB Boot Flash

64 MB

4 General Purpose LEDs

12VDC

Standard Eurocard, 6.29 x 3.93 in, [160 x 100 mm]

Commercial: 0°C - 50°C (-32°F to 122°F) Industrial: -40°C to 85°C (-40°F to 185°F)

Raven-M @ 600 MHz, FCC part 15 Class A, CE EMC Class A, CE Safety

Raven-M @ 720 MHz, FCC part 15 Class A, CE EMC Class A, CE Safety

One year limited warranty

430gr (14.54 oz)

L: 8 inches [203.2mm] W: 5.2 inches [132.08mm] H: 1.5 inches [38.1mm]

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