



# MediaRacer 150

THE LEADING PLATFORM FOR INTERACTIVE SURVEILLANCE OVER LOW BANDWIDTH NETWORKS

## The MediaRacer 150 Uses MPEG-4 To Send Surveillance Video More Efficiently Over Your IP Network



Now there's a fully integrated solution that sends MPEG-4 video, audio and data in one stream for highly manageable IP delivery. Using an extremely efficient and resilient MPEG4 compression engine, our flagship **MediaRacer® 150** allows you to send surveillance data more efficiently over your IP network. By condensing captured video streams before transmitting, the **MediaRacer® 150** places less strain on network infrastructure than video servers that use other codecs.

MPEG4 compression is only one feature that sets the **MediaRacer® 150** apart from other video servers. The **MediaRacer® 150** places a lot of computing power in a box the

size of a paperback book. Featuring not one, but two powerful internal processors, the **MediaRacer® 150** has all of the muscle you need to stream high-resolution video and two-way audio while running complex monitoring applications and capturing external data.

By managing the amount of information that is sent back to the control center, the **MediaRacer® 150** conserves bandwidth resources without compromising coverage or quality.

Best of all, the **MediaRacer® 150** is incredibly easy to use. By using the drag-and-drop MAVIEW Console software you can configure an entire network of **MediaRacer® 150** devices with no programming knowledge. However, for those wanting to create custom applications, the **MediaRacer® 150** is supported by the MAVIX SDK (software development kit) and API (application program interface).

### HIGHLIGHTS

- *The state of-the-art solution for TCP/IP and low bandwidth networks including cellular, serial and PSTN.*
- *Streams video, audio, serial data, sensor inputs and relay activation commands over digital networks*
- *Dedicated trunk port (fully supported RS232) supporting hot back up feature between the IP and trunk links.*
- *CODEC generic platform supporting any compression engine. Currently MPEG4 CODEC available.*
- *Supports up to full motion video (25/30fps) at selectable range of resolutions up to full PAL/NTSC (4CIF)*
- *Dual processor unit – Separate processors for video/audio & customized applications*
- *Independent decision making capabilities in unit. Reducing the dependence on the network availability*
- *Compatible with the MAVIX flexible and user friendly SDK (COM & DLL formats) and API*



## PRODUCT SPECIFICATIONS

### General

- Combined video, audio and data server in one box
- Dedicated multimedia Digital Signal Processor
- Supported by MAVIX API in COM and DLL format

### System Requirements

Compatible with Windows NT, Windows 2000 (DirectX 9.0b or higher required) and Windows XP

### Video

Coding Algorithm: MPEG-4 or MPEG-2 (Sept. 2004)

Formats: PAL or NTSC

Resolution: QCIF, CIF, 2CIF, 4CIF

Frame Rate: up to full, dynamically set

Input: Form Composite

Impedance: 75 ohm Level: 1 Vpp

Output: Form Composite

Impedance: 75 ohm, Level: 1 Vpp

Connectors: Model CM 1 BNC Input, 1 BNC Output

### Audio

Coding Algorithm: G.711 (PCM) G.729A

Bit rate 64 Kbps (G.711) 8 Kbps (G.729A)

Inputs: RCA headphone jack

Voltage: 160mv RMS MAX

Impedance: 10KOhm, AC coupled

S/N ratio: > 90dB @ full scale

Outputs: RCA headphone jack

Full scale V-out: 1 Volt RMS

Minimum load: 16 Ohm

S/N ratio: > 90dB @ full scale

### Approvals

Safety UL Listed CE Mark

EMI/RFI FCC /CE ClassA

## MediaRacer 150

### Firmware Updates

Firmware is upgradable via FTP over the IP network

### Connections

#### Network Interface

IEE 802.3/802.3U

Ethernet/Fast Ethernet (Auto Sense) RJ45

#### Trunk Interfaces

RS232 RJ45

(Fully supported for Dial-Up Modem)

#### Serial Data Interface

Two Ports RJ45

COM1-RS232

COM2-RS485/RS422 (Half/Full Duplex)

#### Discrete I/O Interface

2 ports: input - dry contact

2 ports: outputs – Opto-isolated

### Dimensions and Weight

Dimensions (WxHxD) 19.5x2.8x14 cm (7.67"x1.1"x5.51")

Weight 500g (17.64 oz)

### Electrical Characteristics

Line Feed Auto Range 100 - 240 VAC

Frequency 47 - 63 Hz (Other DC, AC voltages available)

Power Consumption 9W Typical

- The MR150 is delivered with external power supply.
- See also 12 VDC option.

### Operating Conditions

Operating Temperature: 0° to 50°C (32° to 122°F)

Optional: "Extended Temperature" model -34°C to 70°C (-29°F to 158°F)

Storage Temperature: -40° to 70°C (-40° to 158°F)

Operating Humidity: 5% to 95% (Non-Condensing)

### Ordering Information

Name	P/N	Description
MediaRacer		Camera and Monitor Side
MR150/CM/E	MXR030 or MXRD030	100/240 VAC
MR150/CM/E/12V	MXR070	12 VDC