

MediaRacer 100 Series

The MediaRacer100 offers maximum control over the network—select MPEG4 or MPEG2, and get industry best video from 40Kbps to 4Mbps.

Now there's a fully integrated solution that sends MPEG-4 (or MPEG-2) video, audio and data in one stream for highly manageable IP delivery.



Using an extremely efficient and resilient MPEG compression engine, our flagship MediaRacer® 100 allows you to send surveillance data more efficiently over your IP network. By condensing captured video streams before transmitting, the MediaRacer® 100 places less strain on network infrastructure than video servers that use other codecs.

MPEG4 compression is only one feature that sets the MediaRacer® 100 apart from other video servers. The MediaRacer® 100 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® 100 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® 100 conserves bandwidth resources without compromising coverage or quality.

Best of all, the MediaRacer® 100 is incredibly easy to use. By using the drag-and-drop MAVIEW Console software you can configure an entire network of MediaRacer® 100 devices with no programming knowledge.

For those wanting to integrate MAVIX video into their applications, or to create custom applications, the MediaRacer® 100 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 and MPEG2 CODECs available.
- Supports up to full motion video (25/30fps) at selectable range of resolutions up to 2CIF. (4CIF at 15FPS) full PAL/NTSC.
- 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
- Available in extended temperature range and rack unit configurations.

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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 (SP4) and Windows XP
- DirectX9.0b or higher required
- P4 with 512MB RAM recommended

Video

- Coding Algorithm MPEG-4 or MPEG-2 (Elementary Stream of the Advanced Simple Profile)
- Formats PAL or NTSC
- Resolution QCIF, CIF, 2CIF, at 30FPS
- 4CIF (up to 15FPS) - see MR150 for 30FPS @4CIF
- Frame Rate up to full, dynamically set according to resolution, frame rate and bit depth.
- Input: Form Composite
 - Impedance 75. Level 1 Vpp
- Output: Form Composite
 - Impedance 75. Level 1 Vpp
- Connectors: 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 Vout: 1 Volt RMS
- Minimum load: 16 Ohm
- S/N ratio: > 90dB @ full scale

Network Capabilities

- IGMP 1.0 for full multicast support
- Full control of units via the network or via HyperTerminal
- SNMP for system monitoring.
- Internal watchdog resets unit upon error condition.

Network Requirements

- Network must be Multicast aware.

Firmware Updates

- Firmware is upgradable via FTP over IP networks

Connections

- Network Interface
 - IEE 802.3/802.3U
 - Ethernet/Fast Ethernet (Auto Sense) RJ45
- Trunk Interfaces
 - RS232 RJ45 (COM3)
 - (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

Electrical Characteristics

- Line Feed Auto Range 100 - 240 VAC
- Frequency 47 - 63 Hz (Other voltages available)
- Power Consumption 7W Typical
- External power supply included

Dimensions and Weight

- Dimensions 7.67"Wx1.1"Hx5.51D"
- Weight 500g (17.64 oz)

Operating Conditions

- Operating Temperature 0° to 50°C (32° to 122°F)
 - Extended Temp unit -15° to 70°C (5° to 158° F)
- Storage Temperature -10° to 65°C (14° to 149°F)
- Operating Humidity 5% to 95% (Non-Condensing)

Approvals

- Safety UL Listed
- CE Mark
- EMI/RFI FCC /CE ClassA

Ordering Information

MediaRacer 100 AC	MXR022
MediaRacer 100 DC	MXR060
MediaRacer 100 Extended Temp AC	MXRD022
MediaRacer 100 Extended Temp DC	MXRD060
MediaRacer 100 Rack Board	MXR022R
Rack Card Cage for MR boards	MRR010R