

MediaRacer 100 Series

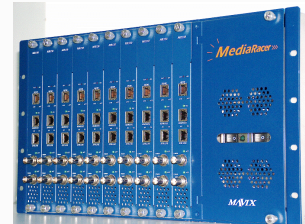
The MediaRacer100 offers maximum control over the network—select MPEG4 or MPEG2 and get industry best video from 40Kbps to 4Mbps



Stand Alone



Extended Temp



Rack Systems

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.

The MediaRacer® 100 sends 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. 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.

Best of all, the MediaRacer® 100 is 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 UDP/TCP/IP and low bandwidth networks including cellular, serial and PSTN
- Provides two independent output video streams, one for high quality real time viewing and event recording, one low bitrate stream. (Max output 2CIF @2Mbps, any combination)
- All in one solution provides video, audio, serial data, sensor inputs and relay activation commands over digital networks
- Units can be programmed to act as either an encoder or decoder.
- User selectable compression engines. Currently MPEG4 and MPEG2 available.
- Fully synchronized audio and video sent in a single stream. PGP video verification option.
- 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
- Included features: Indoor Motion Detection, Video Loss Alarm, OSD Bitmap File.
- Compatible with the MAVIX flexible and user friendly SDK (COM & DLL formats) and API
- Available in extended temperature range and rack unit configurations.

MediaRacer 100 Series

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

- Windows NT, Windows 2000 (SP4) and Windows XP
- DirectX9.0b or higher required
- P4 with 512MB RAM recommended

Video

- Coding Algorithm MPEG4 or MPEG2 (Elementary Stream of the Advanced Simple Profile)
- Bitrate range 40Kbps to 2Mbps
- Formats PAL or NTSC
- Resolution QCIF, CIF, 2CIF =30FPS NTSC (25PAL) 4CIF to15FPS. (See MR150 for 30FPS at 4CIF)
- Network delay < 200MS
- Frame Rate up to full, dynamically set according to resolution 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

- Firmware and CODEC upgradable via FTP over IP
- IGMP1.0 for full multicast support
- Full control of units via network (Telnet) or HyperTerminal
- Internal watchdog resets unit upon error condition

Network Requirements

- Network must be Multicast aware for maximum benefit.
- Static IP addresses required.
- Protocols: UDP, TCP, IP, ICMP, IGMP, SNMP, FTP, ARP, Telnet and more

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 and COM2—RS485/RS422 (Half/Full Duplex) and RS232
 - COM3-RS232
- 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 9W typical
- External power supply included

Dimensions and Weight

- Standard Dimensions 7.67"Wx1.1"Hx7.5D"
- Weight 610g (21.5 oz)
- Extended Temp Dimensions 9.25"Wx4.75"Hx6.87"D

Operating Conditions

- Standard Operating -34C° to 50C° (-30° to 122°F)
- Extended Unit Op -34C° to 70C° (-30° to 158°F)
- Storage Temp -40C° to 80C° (-40° to 176°F)
- Operating Humidity 5% to 95% (Non-Condensing)

Approvals

- Safety UL Listed, CE
- EME—FCC/CE/VCCI/ICES Class A

Warranty

- 2 year standard, MTBF ~ 8yr fan, ~ 28years unit

Ordering Information

- MediaRacer 100 AC MXR022
- MediaRacer 100 DC MXR060
- MediaRacer 100 Extended Temp AC MXRD022
- MediaRacer 100 Extended Temp DC MXRD026
- MediaRacer 100 Rack Board MXR022R
- Rack Card Cage for MR boards MRR010R