MediaRacer 150 Series

The MediaRacer150 offers maximum control over the network—select MPEG4 or MPEG2, and get industry best 4CIF to the desktop

Stand Alone

Extended Temp

Rack Systems

Now send high quality video— MPEG-4 (or MPEG-2) at 4CIF resolution to the desktop. The MediaRacer is smart in utilizing network resources—by automatically duplicating the video into two streams, you can view real time events in 4CIF @30FPS, and select a second resolution to store video—saving valuable storage space.

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. For those wanting to integrate MAVIX video into their applications or 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
- Units can be programmed to act as either an encoder or decoder.
- MediaRacers can be switch between compression engines. Currently MPEG4 and MPEG2 available.
- MR150 translates one video input stream into TWO output streams—one high frame rate for real time viewing, and a second for recording at a frame rate that optimizes storage cost. Max bandwidth out = 4CIF@4Mbps.
- 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 4CIF full PAL/NTSC
- Dual processor unit – Separate processors for video/audio & customized applications
- Independent decision making capabilities in unit reduces dependence on 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

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MediaRacer 150 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 MPEG-4 or MPEG-2 (Elementary Stream of the Advanced Simple Profile)
- Bitrate range 40Kbps to 4Mbps
- Formats PAL or NTSC
- Resolution QCIF, CIF, 2CIF, and 4CIF at 30FPS NTSC (25FPS PAL)
- Network delay < 200MS
- 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

- 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, SNTP, FTP, ARP, Telnet and more

Connections

- Network Interface
  - IEE 802.3/802.3U
  - Ethernet/Fast Ethernet (Auto Sense) RJ45
- Trunk Interfaces
  - RS232 RJ45 (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 50°C (-30° to 122°F)
Extended Unit Op	-34C° to 70°C (-30° to 158°F)
Storage Temp	-40C° to 80°C (-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

Description	
MediaRacer 150 AC	MXR030
MediaRacer 150 DC	MXR062
MediaRacer 150 Extended Temp AC	MXRD030
MediaRacer 150 Extended Temp DC	MXRD062
MediaRacer 150 Rack Board	MXR030R
Rack Card Cage for MR boards	MRR010R

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