

--- MediaRacer 1000 ---

The high quality, low cost, leading platform for Interactive Surveillance over High Speed Networks

Highlights

- Wide range solution, supports configurations from point-to point to high-end systems, enables users to tailor the product to their needs.
- Camera side & Monitor side config features non-managed point-to-point connectivity with automatic link set-up, for cost effective low - end applications.
- Supports Full Motion video (30fps) at full CCIR601 (PAL/NTSC) resolution, providing unique high quality video pictures for mission critical applications.
- Scalable bandwidth range up to 8Mbps with a selectable range of resolutions (full CCIR601, SIF, QSIF, etc).
- API support for integration with 3rd party applications, enables large installations management from a single console.
- Fully managed by MAVIEW Management System and MediaRacer Management System for central Control Rooms' Monitoring and Control.
- Optimized usage of TCP/IP and UDP protocols including IP multicast, dramatically reduces bandwidth usage, even at highest video quality.
- MxN Virtual Matrix technology, logical switching of video, audio & data from M distributed sources to N destinations over IP.
- Pre/Post Alarm ready (cyclic buffered recording) for event triggering, per camera & per event.

Product Name

MediaRacer1000



Product Description

MediaRacer1000 is the new MAVIX family of Multimedia Gateways for delivery of high quality Video, Audio and Data over TCP/IP networks.

The first member of the family, the MediaRacer1000, features full motion video at full CCIR601 resolutions (PAL/NTSC), and is based on low cost, small form factor size, while maintaining the high-end system qualities characteristic to MAVIX products. At the same time, the MediaRacer1000 features unique capabilities for low-end applications, such as non-managed point-to-point automatic link recognition and setup, eliminating the need for costly management applications. This allows end users to tailor the solution to their exact needs and budget.

The MediaRacer1000 features up to 4 video camera attachments, a bi-directional audio port, RS232, RS485 and Discrete I/O connections, all in a box smaller than a VHS cassette, allowing connection of access control devices, intercoms, Public Addressing Systems, PTZ capabilities of Video Cameras, etc. This highly integrated solution performs as a zone concentrator for numerous video, audio and data devices, eliminating the need for multiple H/W platforms for different protocols, thus significantly reducing the overall cost of the installation.

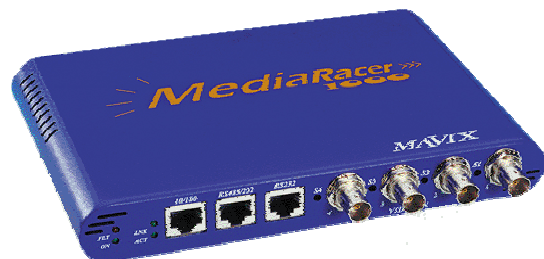
For medium to large size applications, the MediaRacer1000 is fully managed by MAVIX's MAVIEW Management System, and in the future by the newest, state of the art, WEB based MediaRacer Management System, thus allowing unified monitoring and control of large installations from a single Management Console.

Using the MAVIEW software the video bandwidth and quality may be controlled and adjusted, to fit specific application requirements. Moreover, monitoring the video on the MAVIEW desktop screen is another unique option with the new MAVIX MAVIEW-PLAYER.

For applications where the surveillance function is integrated with 3rd party applications, the MediaRacer1000 features a well defined, easy to implement API, enabling users to create their own management application for their complete needs.

Being a wide range solution, applicable to low, medium and large size applications, MediaRacer1000 supports video stream bandwidths of up to 8Mbps. This capability achieved by the use of the new, state of the art, WAVELET compression standard.

The MediaRacer1000 also allows significant bandwidth savings by optimizing the UDP and IP protocols, supporting IP Multicast. as well. End users may set the video quality and the bandwidth usage in accord to their bandwidth budget, by simply setting the configuration parameters. As bandwidth becomes more available, the end user may improve the video parameters by simply updating the configuration parameters of the unit. In this way the MediaRacer1000 based solution "grows" with the customer budget, thus greatly reducing the total life cost of the installation.



Features

- Direct attachment integrating multiple video, audio and data monitoring devices.
- Remote bandwidth control from the MAVIEW (MAVIX's Management S/W) station ranging from 128 Kbps to 8MBps.
- Dynamic S/W adjustment of video compression parameters enables to fit specific resolution and motion requirements to the application.
- Video and audio advanced compression executed by dedicated hardware providing real time, full motion - high video quality (PAL/NTSC).
- Multicast Video capability - same camera can be viewed on several monitors, over the network.
- Built-in video matrix (up to 4 cameras) with remote operation of camera's pan, tilt and zoom motors.
- The MediaRacer System supports MAVIX's M x N Virtual Matrix technology, which enables logical switching of M distributed sources and N destinations of video, audio & data over IP, thus the TCP/IP environment acts as the interconnecting layer between the Virtual Matrix entities.
- ABC - MAVIX unique technology offers a build-in Automatic Bandwidth Control algorithm that will control the bandwidth consumption of the unit in relation to the actual information been compressed, digitized and transmitted over the network. The algorithm is listed as a patent by MAVIX Ltd.
- Bi directional audio connections for intercom or other audio monitoring features
- Audio Broadcast - available audio connection from one source point to several destination points for Public Address Systems.
- Support of multiple interfaces such as RS-232, RS-485, Discrete ON/OFF.
- A 50 MIPS processor with enough processing power to deal with advanced features such as, VMD, etc.
- Automatic link set-up without the presence of a management entity (Point to Point).
- 4 video windows in a quad view on desktop, using the MAVIEW-PLAYER.
- High quality video at full CCIR601 resolution with extremely low latency, appropriate for mission critical applications.
- Unique capability of a Virtual Transparent Serial connection over the network between any serial interface of Camera MediaRacer1000 to Monitor MediaRacer1000 enabling integration with 3rd party devices.
- Pre/Post Alarm ready (cyclic buffered recording) for event triggering, per camera per event.

Product Specifications

MediaRacer 1000

Video Interface

Coding Algorithm	WAVELET Up to 8Mbps
Formats	PAL or NTSC
Resolution	CCIR 601 (full PAL or NTSC)
Frame Rate	1/4 fps up to full, dynamically set
Input	Form Composite Impedance 75Ω Level 1 Vpp
Output	Form Composite Impedance 75Ω Level 1 Vpp
Connector	4 BNC inputs

Network Interface

IEEE 802.3/802.3U	
Ethernet/Fast Ethernet (Auto Sense)	RJ-45

Audio Interface

Coding Algorithm	G.711 (PCM) G.729A
Bit rate	64 Kbps (PCM) 8 Kbps (G.729A)
Inputs	RCA headphone jack Voltage: 1Volt RMS Input Gain: Software adjustable in 1dB steps from -30dB to +30dB Impedance: Rin = 10kOhm, AC coupled S/N ratio: > 30dB @ full scale
Outputs	RCA headphone jack Full scale voltage output: 1Volt RMS Minimum load: 300 Ohm S/N ratio:> 30dB @ for full scale output
Connector	RCA

Device Interface

RS-232	RJ45
RS-232/485	RJ4 (Factory Setup)
Discrete I/O 4 Inputs/ 4 Outputs	Block Terminal

Physical Characteristics

Dimensions (WxHxD)	19.5x2.8x14 cm (7.67"x1.1"x5.51")
Weight	0.5 Kgs

Electrical Characteristics

Voltage Full Auto Range (+/- 10%)	100-230 VAC
Frequency	47 - 63Hz
Power Consumption	11W

Environment

Operating Temperature	0° to 40°C (32 to 104F)
Storage Temperature	-10° to 65°C (14to 149F)
Operating Humidity	5% to 95% (Non-Condensing)

Certifications

Safety	IEC 950 (EN 60950) UL 1950 CSA C22.2 No. 220 TUV
Electromagnetic Interference (EMI)	FCC, CE, VCCI

MediaRacer1000 Characteristics:

Video	Four composite video input ports or One video output
RS-232	Two ports
RS485	One port (alternate, only one transparent channel)
Audio (bi-directional)	Full duplex audio interface (for intercom and handset) or
PAS-Audio (Uni-directional)	Half duplex audio interface (for Microphone, Speaker and line)
Discrete I/O ports: Basic	4x on/off input/output discrete I/O ports (opto-isolated)

Ordering Information:

Name	P/N	Description
MediaRacer1000/C/E	MXR001	Camera side Ethernet/Fast Ethernet connection
MediaRacer1000/M/E	MXR002	Monitor side Ethernet/Fast Ethernet connection

