

# MediaRacer 100



## Highlights

- The state-of-the-art solution for TCP/IP and low bandwidth networks including Cellular, Serial, ISDN and PSTN infrastructures, through a dedicated trunk port supporting hot back up feature between the IP and trunk links.
- CODEC generic platform supporting MPEG4, MPEG2, Wavelet and more.
- Supports up to Full Motion Video (25/30fps) @ a selectable range of resolutions up to full CCIR 601.
- Dual Compression engine supports two video streams @ full capability simultaneously.
- MxN Virtual Matrix technology, logical switching of video data from M distributed sources to N destinations over IP.
- Extended pre & post alarm storage on solid state memory, (cyclic buffered recording) based on event triggering per event, with user defined recording parameters.
- Optional Hard Disk for Digital Recording, supporting MAVIX's StreamR Network Video Recording System requirements.
- Independent decision making capabilities in unit. Reducing the dependence on the network availability.

## Product Description

MediaRacer® 100 is the newest member of the MAVIX family of MediaRacer® Multimedia Gateways for delivery of high quality Video, Audio and Data over TCP/IP networks.

MediaRacer® 100 supports various compression standards, including MPEG4, MPEG2, Wavelet, etc, featuring full motion video at full resolution. It is based on a very low cost, small form factor size, while maintaining the high-end system qualities characteristic to MAVIX's MediaRacer family. Its dual compression engine supports dual video streaming or simultaneous encoding/decoding capability, depending on the unit's model.

MediaRacer® 100 features one video camera attachment and one video output for monitor connection or two camera ports, two RS232 and one RS485 ports, one bi-directional audio link, and four Discrete I/O connections; all in a box smaller than a VHS cassette.

The MediaRacer® 100 is fully supported by MAVIX's API, in either COM and DLL format, allowing users to easily create their own management application fitted to their specific needs.

MediaRacer® 100 supports video stream at bandwidths ranging from 19.2 kbps and up, being a wide range solution that is applicable to low, medium and large size applications. This capability is achieved by using the versatile compression standard options.

The MediaRacer® 100 features an optional Hard Disk for direct recording, supporting MAVIX's StreamR network distributed recording system requirements.

MediaRacer100 features extended memory storage allocation (up to 128 MB) for pre/post alarm buffering, supporting multiple events handling.

The network and channel connections may be operated in a hot-back scheme, providing extended resilience capabilities.



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# MediaRacer 100

## Product Specifications

### Video Interface

Coding Algorithm	MPEG-4, MPEG-2, Wavelet, H.264, 19.2 kbps to 8 Mbps
Formats	PAL or NTSC
Resolution	D1, HD1 SIF, QSIF,
Frame Rate	up to full
Video Impedance Level	Composite 75Ω 1 Vpp

### Connectors

Model CM	1 BNC input, 1 BNC output
Model DC	2 BNC inputs

### Network Interface

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

PSTN, ISDN, Dial-Up Modem and Cellular (in accord to specific unit model)	RJ-45
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### Serial Data Interface

RS-232/RS-485/RS-422	RJ-45
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### Discrete I/O Interface

4 ports, user selectable as inputs/outputs, Opto-isolated / dry contact

### Physical Characteristics

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

### Electrical Characteristics

Line Feed	100-230 VAC/47 - 63Hz
Battery Feed	12VDC
Power Consumption	6W Typical

### Audio Interface

Coding	G.711 (PCM) or G.729A
Inputs	RCA headphone jack
Voltage:	200MV RMS MAX
Impedance:	30kOhm, AC coupled
S/N ratio:	> 60dB @ full scale
Outputs	RCA headphone jack
Full scale Vout:	1.1Volt RMS
Minimum load:	16-300 Ohm
S/N ratio:	> 60dB @ full scale

### Environment

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

### Certifications

Safety	IEC 950 (EN 60950) UL 1950 CSA C22.2 No. 220 TUV (EMI/RFI) FCC ClassB, CE, VCCI
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### Ordering Information

Name	P/N	Description
MediaRacer® 100/CM/I	MXR020	Codec unit with 10/100 Eth. & iSDN
MediaRacer® 100/CM/P	MXR021	Codec unit with 10/100 Eth. & PSTN
MediaRacer® 100/CM/S	MXR022	Codec unit with 10/100 Eth. & Serial RS232
MediaRacer® 100/HD	MXR023	Optional Hard Disk for MR100
MediaRacer® 100/DC/S	MXR045	Dual Camera Encoder with 10/100 Eth. & Serial RS232



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