

Mission recorder series

MR-100-E, MR-200-E, MR-300-L



Recording is becoming a critical system capability across a wide range of military platforms (vehicles, shelters, surface ships, submarines or aircrafts). Whether for audio or video data, full display content or even metadata, the ability to capture, archive, retrieve and manage these information sources is becoming essential to many critical applications and mission requirements:

- Post-mission analysis
- System training
- History tracking

MR is a family of high performance Barco recording solutions fulfilling these system requirements:

- MR-100-E: standalone rugged recorder for naval applications
- MR-200-E: standalone rugged recorder for landbased and airborne applications
- MR-300-L: software-based recording option for Barco's rugged workstations (VISTA 4500 consoles and DPM computers).

All different MR configurations are providing a unified web service interface for an easy integration with the system application software.

BARCO

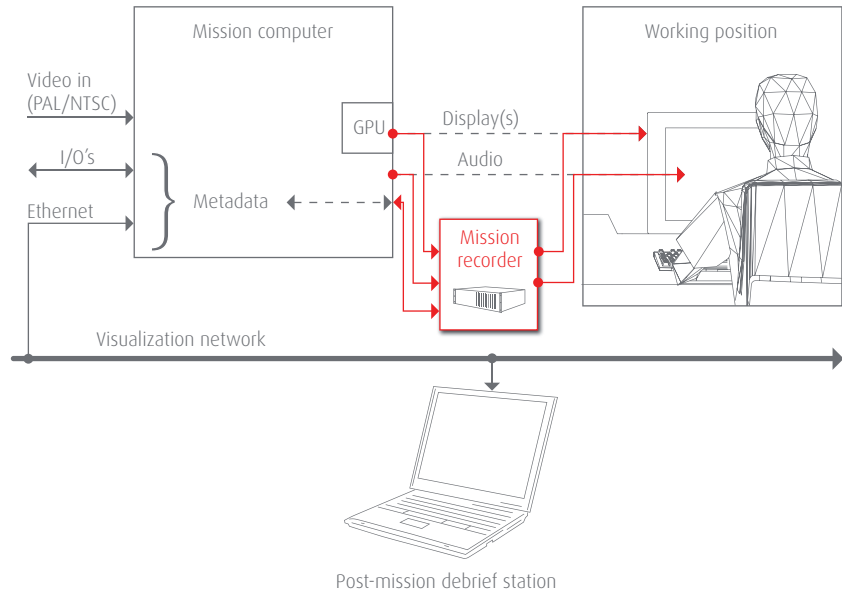
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Hardware-based recorders

MR-100-E and MR-200-E

Barco's MR-100-E and MR-200-E rugged standalone recorders are dedicated to systems demanding high-recording performance.

MR-100-E/MR-200-E architecture:



Barco's MR recorders help users safeguard mission survivability thanks to a unique safe pass-through capability. This guarantees the availability of video and audio paths in case of critical failures (even in case of power loss). The MR recorders use MPEG-4 compression technology, which is now widely used in modern computing platforms and offers the great advantage of providing high video quality while limiting the total amount of data.



MR-100-E recorder



MR-200-E recorder

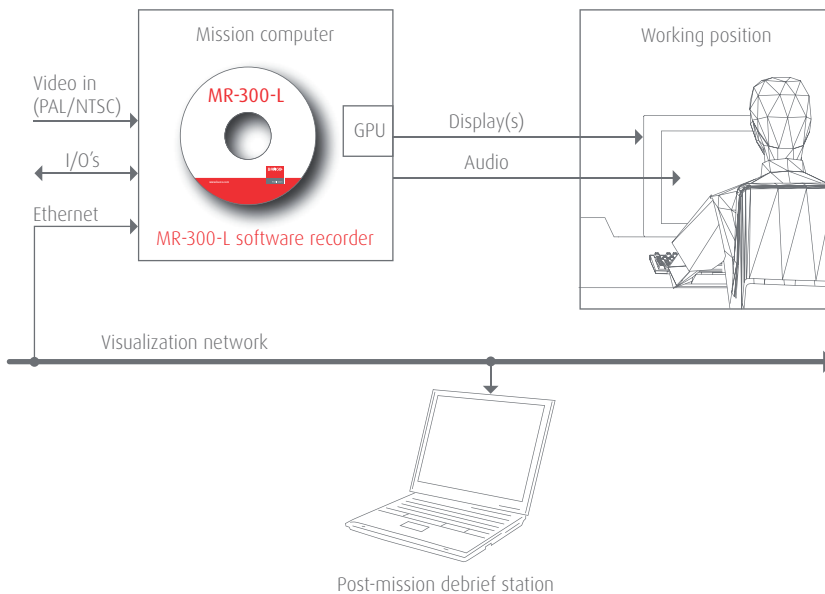
Why Barco?

- Recording of high resolutions (WUXGA) analog and digital video feeds, stereo audio input and metadata*
- Replay while recording
- Replay anywhere
- Safe pass-through
- Local or remote* recording
- Multi-recorder synchronization*
- MIL-qualified for most demanding naval and landbased applications

(* option)

Software-based recorder MR-300-L

MR-300-L architecture:



Barco's MR-300-L is a high-performance, software-based mission recording solution. As an option for Barco's Vista 4500 consoles and DPM rugged computers, MR-300-L runs on the mission computer, captures the screen content and compresses it before recording it on a local or a network attached file.



DPM rugged computer

Eliminating the need for extra hardware components, the MR-300-L software recorder offers many benefits:

- Recording of very high-resolution screen contents
- Recording of stereo audio and metadata*
- Minimal size, weight and power
- Per-screen cost-effective solution
- Adjustable frame rates for optimal quality & CPU load
- Seamless integration within VISTA 4500 consoles and DPM rugged workstations
- Multi-recorder synchronization*

(* option)



Vista 4500-E console

Technical specifications of MR-100-E, MR-200-E, MR-300-L

| | MR-100-E | MR-200-E | MR-300-L |
|---------------------------------------|--|---|--|
| Environmental | | | |
| | MIL-qualified for naval applications* | MIL-qualified for military vehicle applications** | N/A |
| | <ul style="list-style-type: none"> Vibrations/shocks, humidity, according to MIL-STD-167 and MIL-STD 810F Operating temperature 0°C, +50°C according to MIL-STD 810F Non operating temperature -35°C, +70°C according to MIL-STD 810F EMI/EMC CE/FCC class A | <ul style="list-style-type: none"> Vibrations/shocks, humidity, sand/dust, fluids, salt fog according to MIL-STD 810G Operating temperature -25°C, +65°C according to MIL-STD 810G Non operating temperature -46°C, +85°C according to MIL-STD 810G EMI/EMC according to MIL STD 461F | |
| Mechanical | | | |
| Dimensions (WxHxD mm) | 483x89x482 mm (with front handles) | 305x217x76 mm | N/A |
| I/Os | Industrial connectors | MIL 38999 connectors | |
| Weight | < 14 kg | < 7 kg | |
| Power | | | |
| Power supply | 115/230 VAC auto-range | 28 VDC MIL-STD-1275D | N/A |
| Interfaces | | | |
| Video inputs | <ul style="list-style-type: none"> Dual Analog & Digital Video Input 800x600 to 1920x1200 MPEG-4 encoding | <ul style="list-style-type: none"> Dual Analog & Digital Video Input 800x600 to 1920x1080 MPEG-4 encoding | <ul style="list-style-type: none"> Not limited in resolution*** MJPEG encoding |
| Video outputs | <ul style="list-style-type: none"> Safe pass-through Dual Analog & Digital Video output 800x600 to 1920x1200 | <ul style="list-style-type: none"> Safe pass-through*** Dual Analog & Digital Video output 800x600 to 1920x1080 | N/A |
| Audio input | Analog Stereo Audio Input, 600 Ω Sampling 16-bits 44.1 KHz | Analog Stereo Audio Input, 600 Ω Sampling 16-bits 44.1 KHz | Audio recording available as option |
| Audio output | Safe pass-through Analog Stereo Audio Output (2W/ 8 Ω) | Safe pass-through*** Analog Stereo Audio Output | N/A |
| Other interfaces | USB 2.0, Gb Ethernet (other on demand) | USB 2.0, Gb Ethernet (other on demand) | N/A |
| Storage | | | |
| | 4x500 GB removable HDD max | 120 GB SSD max | |
| Software | | | |
| Software interface | Web Services (SOAP) based, networked API (same for all MR recording solutions) Embedded web server for configuration | | |
| Operating system (MR control library) | Windows XP/XPe/7, Linux (Other on demand) | Windows XP/XPe/7, Linux (Other on demand) | Windows XP/XPe, Linux (Other on demand) |
| Performances*** | | | |
| | 20-60 fps | 20-60 fps | 10-20 fps |

(*) Residuals supported at rack interfaces when housed in a Barco VISTA 4500 console or any rugged rack enclosure supporting the MIL naval environments (**). See technical specifications of Barco DPM-3 rugged computer for details (***). May depend on application. Please contact Barco for further details.

M00408-R00-1010-DS

Barco is an ISO 9001 registered company.
The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.
The latest version of this product sheet can be found on www.barco.com.

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