

MRDS

Modular Rugged Display Station



Barco's Modular Rugged Display Station (MRDS) is a field-proven rugged workstation that enables real-time command and control, advanced situational awareness and mission-critical decision making. The MRDS is a fully integrated sensor-to-image display solution that combines the latest graphics processing and computing performance into a compact and fully rugged package.

Thanks to its scalable architecture, the MRDS workstation is a perfect fit for a wide range of command and control applications in rugged vehicles, mobile shelters, naval vessel and submarine environments, as well as airborne systems.

Main Features:

- The most recent and powerful processing power
- Compatible with Barco's full range of rugged displays
- Performs in the most demanding environmental conditions (fully sealed unit)
- Easy interoperability thanks to fully open platform
- High-end video and image processing
- Extensive range of I/O options
- User-friendly software add-ons

BARCO

Visibly yours

Extreme performance for extreme environments

Barco's family of Modular Rugged Display Stations (MRDS) combines a state-of-the-art **Display Processing Module (DPM)** with a full range of **rugged displays** proven in military applications and extreme environments worldwide. Display sizes range **from 10" to 30"** with resolutions up to **2560 x 1600**. Optional functions are available on most MRDS configurations including high-brightness, Night Vision Goggle (NVG) compatibility, touch screen, low dimming, and connection I/O.

Thanks to its **modular configuration**, MRDS provides the best price/performance value on the market. As a one-stop-shop solutions provider, Barco's processing modules feature complete compatibility with its wide range of displays, offering a fully rugged and flexible package for seamless integration into highly complex systems. This allows integrators to develop very competitive visualization solutions for their customers at a cost which is fully in line with their program requirements.



Display Processing Module (DPM)



Qualified & field proven rugged displays

The most recent graphics and computing power

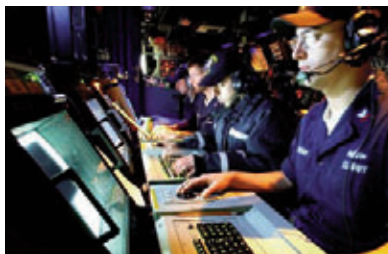
Barco's MRDS processing modules include network, peripheral and sensor interfaces, extended storage media, and uninterruptible power supply capabilities and provides state-of-the-art computing and graphics processing capabilities, such as image stabilization, sensor fusion, stitching and 3D graphics.

Qualified and field-proven rugged technology

The MRDS workstation integrates Barco's qualified rugged technology, thus providing a truly low-risk solution for mission-critical decision making. The MRDS workstation is able to withstand the most demanding shock, vibration and temperature environments.

Cost-effective COTS components

In order to offer a cost-effective solution and enhance interoperability, Barco makes use of COTS technology building blocks, which are enhanced for mission-critical applications by Barco's extensive ruggedization expertise. The use of field-proven components ensures low life cycle cost, flexible upgradeability and optimum support throughout the entire workstation's lifetime.



Software-based video and image processing

Barco's MRDS CommonSense software components bring user-friendly image and video processing ready for use in your system. To shorten development time and cost, rapid prototyping tools are included in the package. Next to that, Barco also provides extensive software customization services to bring your workstation configuration in line with your sensors and mission-specific requirements.



User-friendly image and video processing

Vehicle platform management toolkit

MRDS includes a dedicated vehicle platform management toolkit that enables high level programming of the vehicle application software for both the Human Machine Interface of the project, and for the Control/Command kernel of the equipment. The vehicle platform management toolkit can be delivered either as a final application or middleware software package,

Barco's CommonSense components include:

- Standard format video processing: low latency, high quality, GPU accelerated
- Local Situation Awareness capabilities, including image stitching, sensor fusion and overlays
- Optional networked video
- Display Integration (managing outputs from multiple systems)
- Display sharing (one output presented on multiple displays)

Implemented as an **open platform**, the MRDS further enables easy development of your specific mission software.

MRDS components



Display Processing Modules

Barco's Display Processing Modules (DPM) feature the most recent graphics and computing power in a fully MIL qualified and rugged computer for use in the most extreme conditions.

TL displays

Combining unmatched thinness with exceptionally low weight, Barco's TL displays are ideal for use inside applications where space and weight are critical. The TL displays feature customized low- to high-end ruggedization.

TX displays

Barco's extremely rugged TX displays for extreme vehicle operations offer the latest proven technologies, such as NVIS capability and sunlight readability, in full compliance with the latest military standards.

RFD displays

Barco's rugged flat panel displays have been designed for use on airborne, shipboard and land-based platforms. Compliant with the most demanding shock, temperature and vibration standards, Barco's RFD displays ensure superior optical performance under all conditions.

HD-30

Barco's HD-30 is a wide-screen rugged display that is ideal for use inside mobile shelter environments. With its 30-inch size, the HD-30 makes the biggest single-operator display that is still ergonomically efficient.

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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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