



# Bridge Mate™

## Integrated Bridge System

By Marine Technologies, LLC

## Bridge Mate Integrated Bridge System

MT's Bridge Mate comprehensive and versatile Integrated Bridge System (IBS) is designed to meet the needs of the most demanding mariners and ship owners. All navigational and ship handling tasks are implemented by an intuitive user interface in multi-function workstations. Each workstation can be selected for any application at any time, giving the officer on watch full flexibility as well as redundancy.

Our IBS product range also covers operator chairs with monitors in armrests, overhead indicators, environmental sensors, radars, and everything else required for safe and efficient operations.



*Pictured above, a complete large MT Bridge with full-scale installation of IBS, DP and Thruster control systems. Notice the touch monitors, levers and joystick installed in armrests of an ergonomic operator chair. Overhead monitors for multi-purpose instrumentation, environmental data and CCTV. Forward console with radars, conning, ECDIS and automation tasks selected.*



# The Multi-Function Workstation

Each Multi-Function Workstation (MFW) consists of a touch display and noiseless operator computers due to not needing fans. Each MFW runs all applications in parallel, and all are connected to redundant networks, thereby eliminating single-point-of-failure concerns. Operator devices - such as keyboards, heading selector and joystick - are available as appropriate for operation of the system.

All system components are certified for marine application according to IMO regulations.

## Operator Benefits

Intuitive user interface and flexibility are key design principles applied in the Bridge Mate IBS. Our application manager module facilitates easy and fast switching between different tasks. In addition to navigational applications, such as:

- Radar
- ECDIS
- Autopilot
- Conning
- Smart route planning
- One-man bridge operation
- Track-control and automatic route keeping
- A high grade of application redundancy
- Sensor redundancy and redundant network ensuring data integrity and reliability
- Increased safety of operation
- Online ordering of charts, chart corrections and weather forecasts via ship communication
- Harmonized HMI across the bridge
- Centralized dimming
- Captain mode utility with personal preferences for multiple captains for transit, docking DP operations and more
- Touchscreen for ease of operation



Bridge Mate IBS can also integrate with:

- Power management system
- Automation
- Alarm system
- CCTV, monitoring of ECR, gangway, deck and more
- Navigation and search lights
- Horn
- Window wipers
- Stabilizer fins



## Advantages

For ship owners:

- MT is a responsible, well reputed and committed supplier
- Flexibility in layout and design of the bridge
- Flexible training options, classroom or remote online
- MT are open minded and special requests are welcome
- Standardization of hardware platform and software
- Reduction in the amount of onboard spare parts
- Ease of repair
- Excellent maintainability
- Simple upgrades throughout life cycle
- No single point of failure
- Dual network redundancy
- Multifunction redundancy in navigation system
- Availability of single-installation electronic charts for all Multi-Function Workstations
- Best in the market on total cost ownership (TCO)
- Experienced technicians for tier 1 support
- Reduced system upgrade times and maintenance cost through remote access/diagnostics (optional)
- Optional secure remote service and maintenance



For shipyards:

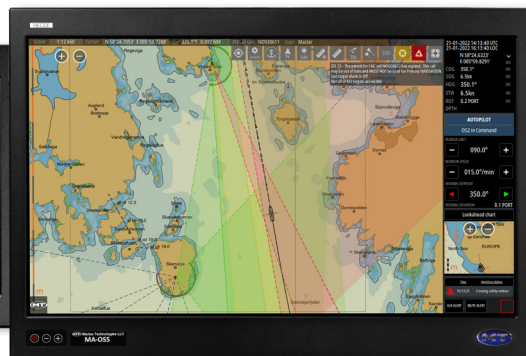
- Cost effective
- Optionally pre-fabricated assemblies
- One-stop-shop for bridge electronics
- Dedicated displays and computers according to customer preference
- Components are mainly PoE (Powered over Ethernet) reducing cost of cabling and reducing installation time
- Attractive ergonomic consoles
- Professional and effective project team
- Reduction in number of control panels, keyboards and switches
- Smaller consoles



C-Vision 13



C-Vision 17



C-Vision 27

