



Helping OEMs Create Clear, Customized Operator Experiences

For industrial and mobile equipment OEMs, the operator interface is where machine information, controls, and the user experience come together. A display must be clear in changing conditions, responsive enough to support graphics-rich applications, and flexible enough to reflect the needs of a specific machine and brand.

HMI Systems' new 750MDI Media Display Interface brings these capabilities together in a compact, rugged 7-inch touchscreen solution. With daylight-readable graphics, embedded quad-core processing, CAN connectivity, and customization options, the 750MDI provides a flexible platform for developing modern operator environments.

Visibility Designed for the Equipment Environment

Clear access to machine information is essential, particularly in demanding industrial and mobile equipment applications. The 750MDI features a bright 7-inch IPS display with 1024 × 600 resolution and 950 cd/m² sunlight-visible brightness.

The display also provides a wide viewing angle, helping operators see critical information from multiple positions around the equipment. Combined with a capacitive touchscreen, the 750MDI supports an intuitive interface for viewing information and interacting with machine controls.

A Platform for Customized Graphics and Controls

Every equipment application has its own operating requirements, controls, and visual identity. The 750MDI gives OEMs a foundation for developing display graphics tailored to those needs.

Built-in quad-core processing supports responsive, graphics-rich user interfaces. HMI Systems' free CANcreate software utilities can help OEMs develop and deploy custom display graphics more quickly, while custom bezel options can help manufacturers align the display with their equipment design and brand identity.

The 750MDI supports customization through:

- Custom display graphics tailored to the application
- Responsive, graphics-rich user interfaces
- CANcreate software utilities for display development and deployment
- Custom bezel options that support equipment design and brand identity

Connectivity for Modern Equipment Platforms

The 750MDI is designed to integrate into modern vehicle and machine platforms. CAN connectivity supports communication with vehicle and machine control systems, helping OEMs connect the display with the equipment information and controls that operators rely on.

Additional built-in features add flexibility for application development and system monitoring:

- USB connectivity
- Real-time clock
- Internal temperature sensor
- Embedded quad-core processing
- CAN connectivity for vehicle and machine control systems

Rugged Construction for Demanding Conditions

Industrial and mobile equipment interfaces need to perform in environments where dust, water, temperature, and electrical considerations matter. The 750MDI features IP65 protection against dust and water and operates across a temperature range of -20°C to 70°C.

It supports 12- and 24-volt nominal systems through a 7–32 VDC input range. Its input power design is also optimized for low electromagnetic interference.

Key specifications include:

- 7-inch IPS display
- 1024 × 600 resolution
- 950 cd/m² sunlight-visible brightness
- Capacitive touchscreen
- 7–32 VDC input range for 12- and 24-volt nominal systems
- IP65 protection against dust and water
- Operating temperature range of -20°C to 70°C

Bringing the Operator Experience Together

The 750MDI gives OEMs a capable foundation for creating operator interfaces that are clear, responsive, application-specific, and built for demanding equipment environments. By combining a sunlight-readable touchscreen, embedded quad-core processing, CAN connectivity, and rugged IP65 construction, the display helps manufacturers bring critical machine information and controls into one modern interface.

HMI Systems supports OEMs beyond the display itself. With expertise in CAN-based products, custom hardware and software, intuitive design utilities, electronic design, mechanical packaging, assembly, and rapid prototyping, HMI Systems helps customers develop dependable operator interface solutions tailored to their applications.