

TUFF VIEW **MLC-812**

Enhanced Sunlight Readable Touch Monitor

IP65/NEMA4, Fully Rugged, 8.0" Display

- 1,400 nit truly sunlight readable LCD
- Real automatic backlight control (no night-blindness)
- Completely water and dust proof to IP65/NEMA4
- VGA and 2x composite inputs (switchable externally)
- -40° C to +75° C operating temperature range



Motium's TUFF View MLC-812 LCD monitor is compact, robust and lightweight and has been specifically designed to ensure successful vehicle deployment in rugged environments such as mining, automotive and the transportation industry.

Each aspect of the design guarantees reliable operation under conditions such as extreme heat, harsh vibration, glaring sunshine, night blindness, water, dust or even the remotest of locations.

The MLC-812 Tuff View features Motium's unique sunlight readable LCD with resistive touch technology including an ultra-efficient, high brightness 1,000nit LED backlight. Standard industry features also include; automatic backlight control, a selection of field replaceable touch surface protection films and optional optical bonding.

With support for VGA with touch, two composite video inputs and Picture In Picture, the MLC-812 also offers unrivalled flexibility and can be integrated with any PC and industry standard video cameras. To protect your equipment, digital inputs allow the monitor to automatically activate for scenarios such as a reversing camera.

The MLC-812 also boasts industry standard VESA mounting points, water and dust resistance to IP65/NEMA 4 standards, wide operating temperature range and power consumption less than 14 watts.

With intelligent, innovative design the MLC-812 Tuff View is an outstanding high quality inclusion for any vehicle installation. For further information about the entire Tuff View range, visit our website at www.motium.com or to contact your local sales representative email us at sales@motium.com.

Key Markets

- Mining
- Automotive
- Transportation
- Emergency Services
- Municipal Services
- Trucks



TUFF VIEW MLC-812 ENHANCED SUNLIGHT READABLE 8.0" TOUCH MONITOR

SPECIFICATIONS

Display	
Viewable Area	4:3 aspect ratio. 162 mm (W) x 121.5 mm (H). 8.0-inch (20.32 cm) diagonal.
Native Resolution	800 x 600; dot pitch: 0.2055 mm x 0.2055 mm.
Contrast Ratio	500:1 typical. 400:1 minimum.
Colours	18-bit (262,144).
Response Time	Ton: 10 ms typ. Toff: 15 ms typ.
Brightness	1,400 nits typical. This value only applies to indoor performance. The effective outdoor performance is greater than 1,600 nits. (1 nit = 1 Cd/m ² .)
Viewing Angle	Horizontal: 140° typ, 120° minimum. Vertical: Up: 50° typ and 40° minimum. Down: 70° typ and 60° minimum.
Touch	5-wire resistive on 1.8mm glass. A high quality, replaceable surface protection film is also fitted.
Controller	
Video Input	VGA: Analog RGB, 0.7Vp-p. With DDC Support. Composite Video: NTSC, PAL-B, PAL-D, PAL-G, PAL-I, PAL-K
VGA Input Resolutions	640 x 480, 800 x 600, 1024 x 768, 1280 x 1024. The monitor automatically scales the input signal.
Video Input Resolutions	PAL: 625 lines; NTSC: 525 lines. 160 x 120, 320 x 240, 640 x 480, 768 x 576, 800 x 600, 1,024 x 768, 1,280 x 1,024. The monitor automatically scales the input signal.
Input Frequency	50Hz, 60Hz and 70Hz. 60Hz is recommended.
Configuration	On-Screen Display (OSD) includes: Image Colour, Image Formatting, Source Selection & Picture In Picture, Backlight Management, Power Management, Audio, OSD Management, About.
Video Configuration	
Display Options	Full screen VGA. Full screen (reversible) composite video.
Picture In Picture	VGA Background with adjustable size and location for composite input source.
External Input Control	Monitor can automatically select a composite input source or Picture In Picture mode. For instance, to activate a camera when the reverse gear on a vehicle is selected.
User Interface	
Monitor Controls	Front panel buttons are: Power On/Off, Backlight Brightness Up and Down, OSD Menu/Input Selection, Volume Up and Down.
Keypad Lock	Monitor controls can be disabled individually preventing operators from having access to the associated features.
Menu Lock	The monitor menu can be locked with a code preventing operators from having access to the settings in the monitor.
Audio	
Control	Control of monitor volume through OSD menu.
Speaker	Front panel mounted mono speakers. The speakers are intended for connection to a PC or media device for voice commands, operator feedback and warning tones.
Physical Characteristics	
Mounting	75mm VESA compatible mounting holes on the rear panel.
Dimensions	215 mm (W) x 183 mm (H) x 37 mm (D); Plus 18 mm for connector body; plus 54 mm when connector is mated.
Weight	1.0 kg
Shipping Package	Dimensions: 260 mm (W) x 210 mm (H) x 85 mm (D). Weight: 1.25 kg.
Temperature	Operating: -40°C to +75°C. Storage: -40°C to +85°C.
Humidity	10% to 90% RH, non-condensing.
Certification	C-tick. Other certifications available upon request.
Power	
Power Supply	Input voltage range 8 VDC to 45 VDC.
Power Consumption	14 watts maximum.
Accessory Control	The monitor has an accessory input for power on and off control. This input is different to the power on/off button. Using this input results in zero off-state power consumption.
Power Management	The monitor has timing options for no video input shutdown and accessory off shutdown.
Transient protection	Load dump and other transients specified in ISO-7367.
Support	
Warranty	Motium displays carry a 24-month return to base, limited hardware warranty. Additional 12 and 24-month warranties are also available.

ORDERING OPTIONS

The MLC-812 is available in standard models and can also be customised with a variety of options.

OEM branding and options are also available, minimum order quantities may apply.

Cable assemblies must be ordered separately, standard and custom options are available.

Contact Motium for order codes. Specifications subject to change without notice.