



MFCD—10.4”

Multi-Function-Color-Display 10.4 inch



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The Multi-Function-Color-Display (MFCD) is a flexible, rugged low power consumption display for a wide array of airborne applications.

The display provides high brightness and NVG compatibilities, with or without bezel with OSS pushbuttons.

The display complies with the requirements of MIL-STD-810F extended temperatures, MIL-STD-461E, MIL-STD-704A among others.

The Display support several video inputs, and can be customized to support RS-170A PAL/NTSC, VGA, DVI and more. In addition, RS170A video output can be provide for video monitoring or recording.

The display can be customized to customer's requirements and can be provided with different types of interfaces such as discretes, analog and digital communication interfaces, including MIL-STD-1553.

The display bezel can be fully customized to specific requirements, including different number of OSS pushbuttons, optional USB I/O port, Special protected pushbuttons and more.

Growth potential

- ◆ Touch screen
- ◆ Smart display - Optional CPU processor with real time RTOS for Applications support.
- ◆ On Screen Display - Overlay of characters and graphics on the input video with full flexibility of OSD locations and languages
- ◆ Picture In Picture capabilities
- ◆ LAN and/or MIL-STD-1553 interfaces



About Niron Systems & Projects

Niron Systems & Projects is a recognized provider of sophisticated technological solutions for defense and Homeland Security applications.

With many years of accumulated experience backing a strong command of the most advanced modern technologies, company engineers specialize in the development and production of integrated solutions for a variety of manned and unmanned airborne, ground and surface naval platforms. These include control systems for weapon delivery and chaff & flare Dispensing Systems: mission and communication computers: display and switching units; hardware and software solutions for real-time systems.

The company also provides unique turnkey project management and ongoing customer support services for non-standard technological programs requiring close professional accompaniment .

Niron Systems & Projects is certified to:
ISO 9001:2008 and ISO90003:2004

Contact us

Mailing address: P.O. Box 8546, Netania 42504, Israel

Tel: +972 9 7407626, Fax: +972 9 8651510.

E-mail: niron.marketing@niron-sys.com

www.niron-sys.com

Characteristic	Performance
Display area (mm)	210.4.0 (H) x 157.8 (V) (10.4" diagonal)
Number of Dots (Resolution)	XGA 1024 x 768
Brightness	Up to 1000 (cd/m2)
Number of Color	16.7M
Viewing Envelope	-80° to 80° Horizontal, -65° to 65° Vertical
Contrast Ratio	700:1
Backlight	LED
Display Panel	Multi layer Anti reflective
NVG Support	Per MIL-STD-3009 NVIS class B
Video Inputs	2xRS-170A PAL/NTSC, 2xVGA, 2x DVI. Inputs are selectable. Option– Other video input types.
Video Output	Optional - 1x composite video RS170A PAL/NTSC
Bezel	Illuminated OSS. number and legends - customer's definition, Optional—without OSS
Interfaces	2xRS-422, External Dimming signals. optional—External On/Off signal, I/O Discretes, MIL-STD-1553, LAN, additional serial communication
Electrical Input	28V per MIL-STD-704A
Environmental (MIL-STD-810F)	<ul style="list-style-type: none"> ◆ Operating Temperature: - 30°C to + 55°C. ◆ Non-operating Temperature: - 54°C to + 71°C ◆ Altitude: Operating - Up to 45000 feet. Non Operating - up to 50000 feet ◆ Humidity: 98% @ +35°C ◆ Mechanical shock (operation): 20g for duration of 11±1ms ◆ Mechanical shock (Crash safety) at 40G ◆ Acceleration ◆ Explosive atmosphere ◆ Gun fire ◆ Random vibrations ◆ Sand and Dust, Salt Atmosphere, Fungus ◆ Rain: Water jets
EMI/RFI (MIL-STD-461E)	<ul style="list-style-type: none"> ◆ CE102, CS101, CS114, CS115, CS116 ◆ RE102, RS101, RS103
Reliability (prediction)	5,000 hours at 35°C
Dimension	10.5" X 8.27" X 4.5" (L x W X H inches).
Weight	10lb.

AN: 2004706

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www.niron-sys.com



Systems & Projects

6981579
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6981579

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