



Metromatics



Field tested, failsafe and long life performance in extreme conditions. With an all aluminum construction weighing in at 22lbs., the RD1119 provides a small package with big capabilities. Unique folding design provides a 1U 19" LCD in a user centric attitude for ease of use in a compact and rugged package.

Crystal Group Rugged Displays meet military, industrial, and commercial demands for high brightness and contrast, sunlight readability, and resistance to impact, scratches, condensation and dust penetration. Rugged Displays, designed for demanding applications and challenging environments, are the optimal choice for industrial, commercial, and military systems – including those on the move, whether on land, at sea, in the air or space. Advanced lamination and glass improve durability and impact resistance, brightness and contrast, and sunlight readability, while reducing reflection, condensation, and dust buildup.

Innovative solutions. Crystal Group's portfolio of rugged and industrial computing products are engineered and tested to withstand challenging environments, meet and exceed military and industrial standards, and provide the latest COTS technologies and benefits, such as cost, availability, upgradability, and flexibility.

Dependable services. When a computing application requires a custom solution, Crystal Group delivers – on time and on budget – with professional services, including product design and development, testing, systems engineering and integration, mechanical and electrical engineering, configuration management, and product lifecycle planning.

Dedicated support. Crystal Group's expert staff and global network provide fast and effective product support when and where it is needed, whether in-house or in the field. Count on Crystal Group for fast response times, quick turnarounds, 5+ year warranties, and quality service around the clock and around the globe.

FEATURES

- All aluminum construction – 22 lbs. depending on content
- Easily mounted – 1U drawer mount on Accuride slides or Jonathan rails
- Rugged 19" display in EIA 1U drawer
- Ultra wide viewing angle +/- 85V/H
- Sealed iKey keyboard or Industrial Cherry keyboard series
- SXGA resolution, 1000 nit, low reflectance, high ambient contrast/full color
- High brightness backlight and low reflectance cover glass yield sunlight readability
- CR 1500:1

A clear advantage.



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Specifications

Mechanical 1U

Height: 1.75" (4.4 cm)

Width: 17.5" (44.45 cm) EIA-310 rack compliant

Depth: 24" (61 cm)

Weight: ≤ 22 lbs. (9.98 kg)

LCD

Manufacturer and Type: Sharp 19" Diagonal, TFT TN, normally black AMVA

Resolution: SXGA 5:4 1280x1024

Active Area: 376.3 mm (H) x 301.1 mm (V)

Pixel Pitch: 0.294 x 0.294

Pixel Configuration: RGB Vertical Stripe

Color Palette: 16.2 M colors (RGB 8-bit)

Interface

DVI and/or VGA

Mounting

1U drawer mount on Accuride slides or Jonathan rails

Power Supply

120/240 VAC w/PFC

Environmental Standards

MIL-STD-810, Operational Temperature, Method 501, Procedure I/II: -20°C* to +70°C¹

MIL-STD-810, Storage, Method 501, Procedure I/II: -55°C to +85°C¹

MIL-STD-810, Humidity, Method 507, Procedure II: 240 hours with humidity kit²

MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport²

MIL-STD-810, Vibration, Method 514, Procedure I: 3 GRMS, 5-2,000Hz, 75 min/axis, 3 axes¹

MIL-S-901, Grade B, MIL-S-901, Grade A Stowed

Keyboard

Sealed iKey keyboard with touchpad- optional non-sealed

10-Key numeric pad

12 function keys

Optics

Viewing Angle: +/-85V, +/-85H minimum

Luminance: 1000 nits normal to display surface (standard configuration)

Contrast Ratio: CR 1500:1 normal, type

Fully laminate 3mm Cover glass with HEA surface treatment

NTSC Color Saturation: 72%



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1 - Test report available

2 - Designed to meet standard

*LCD may be impacted by temperature, resulting in LC response time to be greater than 250 ms 10/90 at -15°C.

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