

ORION 18.5

WIDESCREEN DISPLAY

Widescreen Rugged Display
with Low Profile Folding Handles



zmicro.com

Rugged Agile Performance

The Orion 18.5 display has been engineered and optimized for mobile rack-mount applications. Rugged folding transportation handles provide convenient installation and removal, improving the time it takes for deployment and rapid panel replacement. As a rack mount solution, these handles snap into place for low-profile unhindered viewing.

Experience Unparalleled Clarity

The design goal for the Orion 18.5 was to deliver a high-performance LED viewing solution with maximum viewing options for applications with critical space requirements. The wide aspect ratio 18.5" Orion display offers a native 1366 x 768 (HD) resolution while supporting Picture-in-Picture (PIP) and other view modes such as Dual-View and Quad-View monitoring. This widescreen solution is also capable of hosting ZMicro's Real-Time Enhanced Video (RTEV), an advanced algorithm enhancement technology that provides significant viewing advantages in nearly any environment, all without adding latency to the video.

Mil-Tailored Display w/Options

Since 1986, ZMicro has delivered MIL-tailored solutions to the military and DOD. The Orion 18.5 display is no exception to this, offering resilience to high levels of shock and vibration, advanced EMI protection, and extended operating temperatures. The Orion series also features an optional Anti-Reflective (AR) shield and a precision infrared touch panel for improved control and efficiency.

Ideal for Airborne, Shipboard, &
Ground Vehicle Environments

Don't miss a thing with RTEV!

(Actual enhancement images; no manipulation has been performed.)



Fog



Sand

HIGHLIGHTS

- 18.5" Wide aspect ratio LED display
- 1366 x 768 (HD) native resolution
- LED Backlight: brightness of 300 cd/m2
- Embedded Real-Time Enhanced Video (RTEV)
- Digital and analog video signal support
- 19" RETMA rack mounting options
- Infrared touch panel support
- Options include bonded AR shield, EMI Mesh
- On-screen display for user customization
- Durable & lightweight machined-aluminum design
- Low-profile folding transportation handles

FOR MORE INFO

Contact us at sales@zmicro.com
or call 858.831.7000.

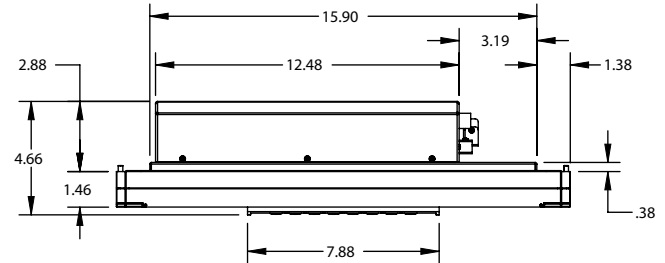
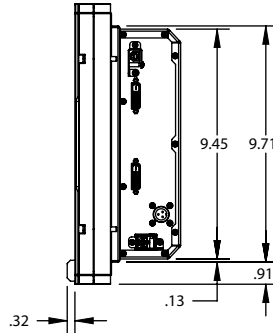
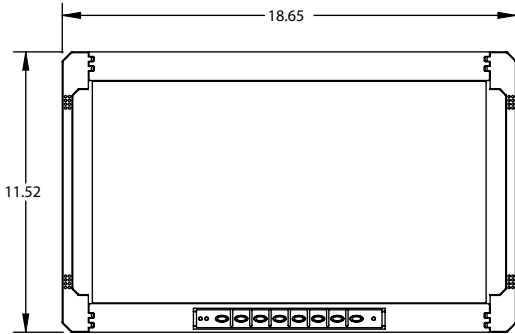
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To see all of our display options, visit zmicro.com/displays.



SCHEMATICS



TECHNICAL SPECIFICATIONS

SIZE & WEIGHT

Dimensions 11.5 x 18.81 x 4.66 inch / 292 x 478 x 118 mm

Weight 15.1 lbs. / 6.8 kg

POWER

Power Supply 100-240V AC, 2.0A, 50/60 Hz

Power Consumption 40 W (Depending on # of PIPs)

SPECIFICS

Panel Size 18.5" active viewing area

Native Resolution 1366 x 768 (HD) (Scaled support up to 1920 x 1200)

Backlight LED

Brightness Typically 300 nits. Optical coatings will degrade native panel brightness.

Viewing Angle Full +/- 89°

Contrast Ratio 1000:1

Color Palette 16.7 Million

Controls INPUT, MENU/SELECT, +, -, EXIT, STANDBY, USB COMM (Custom menu options available.)

Panel Options Optically Bonded AR Shield, Infrared Touch Panel, EMI Mesh, USB Passthrough

(Not compatible w/IR Touch), Embedded Real-Time Enhanced Video (RTEV)

Scaling Modes No Scale, Fullscreen Scaled, SAR (Scaled w/Aspect Ratio Retained)

Connectors MIL-DTL-5015 Locking Connector, DVI-I, HD-15, BNC, USB Type-B

Mounting 19" RETMA (direct rack-mount w/o adapter)

ENVIRONMENTAL

Operating Temperature 0° to 50° C (Extended operating temperature options available.)

Storage Temperature -40° to +70° C

Humidity Up to 95% Non-condensing @40° C for 48 hours

Operating Altitude Up to 10,000 ft.

Non-operating Altitude Up to 40,000 ft.

Vibration DO-160 Section 8, Curve B

Shock MIL-STD-810G, 30gs, 11ms, saw-tooth

EMI / EMC MIL-STD-461F, RE101 Army Limits, RE102 Surface Ship Limits, RS101, RS103, CE102, CS101, CS114

MTBF Min. 50,000 hrs (backlight only)

MTTR < 30 mins.

ESD Safety IEC 61000-4-2 8kv contact, 15kv air

OTHER

Quality IPC/ISO 9001:2008 and applicable sections of the MIL-HDBK-454

ZMicro, Inc. is an ISO 9001:2008 certified company and compliant with AS 9100 requirements. Product information and technical data provided are typical of standard configurations of the described products. Measured results may vary slightly between units. This information is subject to change without notice. For more information, or the latest version of this product sheet, please visit our website @ www.zmicro.com