

ORION 21.5

WIDESCREEN DISPLAY

Widescreen Rugged Display
with Low Profile Folding Handles



zmicro.com

Rugged Agile Performance

The Orion 21.5" 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 access and unhindered viewing.

Experience Unparalleled Clarity

The design goal for the Orion 21.5" was to deliver an unmatched operator experience with increased viewing options and modes. The wide aspect ratio 21.5" Orion display offers a native 1920 x 1080 (FHD) resolution while supporting multiple Picture-in-Picture (PIP) views and other modes such as Dual-View and Quad-View. This wide-screen solution also offers an advanced viewing experience with ZMicro's Real Time Enhanced Video (RTEV) technology. Applying powerful enhancement algorithms directly to the incoming video stream, this technology provides users with advanced control and customization over algorithms directly from the display controls.

Mil-Tailored Customization

Since 1986, ZMicro has delivered MIL-tailored solutions to the military and DOD. The Orion 21.5" 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 optional Anti-Reflective or Anti-Glare shields, and a precision infrared touch panel for improved operational efficiency.

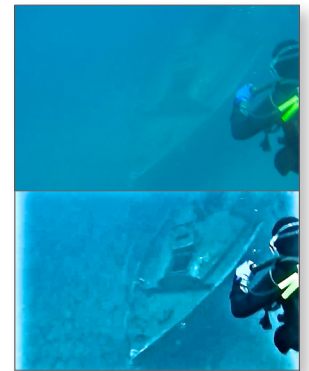
Ideal for Airborne, Shipboard, &
Ground Vehicle Environments

Don't miss a thing with RTEV!

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



Fog



Underwater

HIGHLIGHTS

- 21.5" Wide aspect ratio LED display
- 1920 x 1080 (FHD) 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: optically bonded AR or AG shield, Micromesh
- 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.

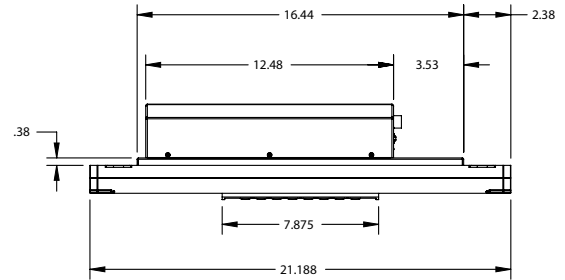
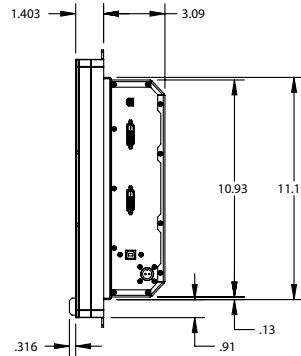
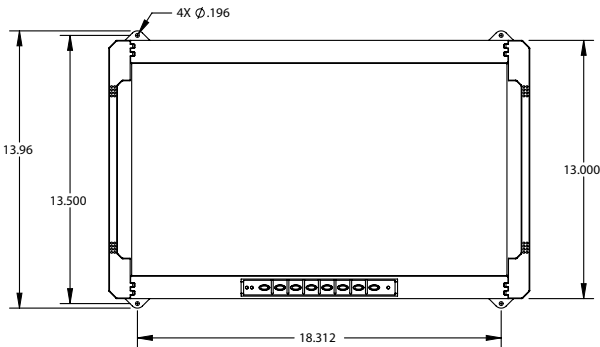
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WIDESCREEN DISPLAY

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



SCHEMATICS



TECHNICAL SPECIFICATIONS

SIZE & WEIGHT

Dimensions 13 x 21.19 x 4.81 inch / 330 x 538 x 122 mm

Weight 17.7 lbs. / 8.03 kg

POWER

Power Supply (AC) 100-240V AC, 2.0A, 50/60 Hz, (DC) 18-36V DC 8.5A In-Rush

Power Consumption 44 W (Depending on # of PIPs)

SPECIFICS

Panel Size 21.5" active viewing area

Native Resolution 1920 x 1080 (FHD)

Backlight LED

Brightness 300 cd/m² (Micromesh or touch options will reduce panel brightness)

Viewing Angle Full +/- 89°

Contrast Ratio 5000:1

Color Palette 16.7 Million

Controls INPUT, MENU, +, -, 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, C14 IEC 320 socket, DVI-I, HDSDI, HD-15, USB Type-B

Mounting 19" RETMA (rack-mount 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