ORION 32 4K RUGGED DISPLAY

32" Widescreen Rugged 4K Display w/Real-Time Video Processing



4K Resolution

ZMicro's leading technology provides the industry's most advanced 4K resolution support. The Orion 32 offers an unparalleled viewing experience with Ultra HD (3840x2160) resolution with a full 60Hz refresh rate. The rugged display incorporates a DisplayPort 1.2 input together with convenient Single Stream Transport (SST) for a natural and continuous viewing experience from a single source.

Real-Time Image Processing

The Orion 32 is designed around an extensible electrical architecture to enable rapid customization and maximum user flexibility. The display offers modular video input cards to support a host of video input formats including DVI, DisplayPort 1.2, and HDMI. Users are able to simultaneously view up to four video sources via Virtual Window technology with independent control of size, position and other adjustability.

Advanced Video Outputs

The Orion 32 utilizes ZMicro's 4th Generation Video Controller to support real-time video processing capabilities. Powered by advanced FPGA technology, ZMicro's controller can support sophisticated video processing algorithms with virtually no added latency. The Orion 32 supports image stabilization, enhancement, edge detection and more.

> Ideal for Airborne, Shipboard, & Ground Vehicle Environments



Whether your rugged display requires real-time video processing or unique video signals and inputs, our powerful and proprietary 4K video controller supports rapid customization to meet any military program need.

HIGHLIGHTS

- 32" rugged display platform
- Ultra HD 3840 x 2160 resolution
- Native 4K input @60 Hz
- Integrated Real-Time Enhanced Video Capability
- Consolidate multiple video inputs onto a common screen.
- 4th Generation video controller
- User-friendly on-screen menu system (OSM)
- Robust machined aluminum construction
- API support for remote user control
- 19" RETMA rack compatible (portrait orientation) or VESA compatible (200x200)

FOR MORE INFO

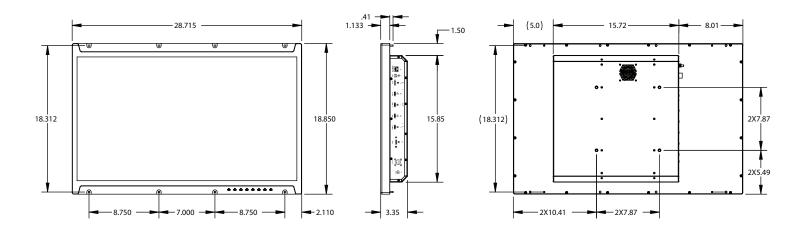
Contact us at sales@zmicro.com or call 858.831.7000.

ORION 32 4K RUGGED DISPLAY To see all of our display options, visit zmicro, com/di

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MECHANICAL OUTLINE



TECHNICAL SPECIFICATIONS

Weight

SIZE & WEIGHT 18.85"H x 28.72"W x 3.35"D **Dimensions**

POWER Power Supply 100-240 VAC, 50-60Hz, 325W Max

> Power Consumption 90W

SPECIFICS Panel Size 31.5" active display area

> Native Resolution 3840 x 2160 Backlight LED

Brightness 350 cd/m² (may vary with optical stack)

30 lbs.

Contrast Ratio Aspect Ratio 16:9

Color Palette 1.07 Billion colors, 10 Bit (8Bit + A-FRC) Front accessible OMS button controls Controls Viewing Angle For CR>10; 89° Horizontal & Vertical Virtual Window Multiple input options available

Panel Options Optically bonded AR / AG / EMI shield options

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

Mounting 19" RETMA rack compatible (portrait orientation) VESA compatible (200x200) Connectors MIL-STD-5015 AC power input with locking connector, Display Port 1.2, HDMI 2.0,

USB Type-A, USB Type-B, Ethernet Port

0° to 50° C **ENVIRONMENTAL** Operating Temperature

-40° to +70° C Storage Temperature Operating Altitude Up to 10,000 ft. Non-operating Altitude Up to 40,000 ft.

Humidity 5% to 95% Non-condensing @ 40° C for 48 hours DO-160G: Section 8.0 - Category S - Curve C Vibration

Shock 40gs 11ms, terminal Saw-tooth

Radiated: RE101 (Army Limits), RS101, RS103 up to 60V/m, RE102 (Shipboard limits) EMI/EMC

MTBF 50,000 hrs (LED lifetime for panel)

MTTR < 30 mins.

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

OTHER IPC/ISO 9001:2015 and applicable sections of the MIL-HDBK-454 Quality

ZMicro, Inc. is an ISO 9001:2015 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

