ORION 32L **4K RUGGED DISPLAY**

Widescreen Rugged 4K Display with Low Profile Folding Handles



4K Resolution

ZMicro's leading technology provides the industry's most advanced 4K resolution support. The Orion 32L 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 32L 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 Video over IP (H.264 decoding). Users are able to simultaneously view up to four video sources via picture-in-picture (PiP) technology with independent PiP control of size, position and other adjustability.

Advanced Video Outputs

The Orion 32L 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 32L supports image stabilization, enhancement, edge detection and more. Users can even output their display content via H.264 encoding and distribution for archiving, forensic analysis and post mission review.

> Ideal for Airborne, Shipboard, & **Ground Vehicle Environments**

Don't miss a thing with RTEV!

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





Fog

Underwater

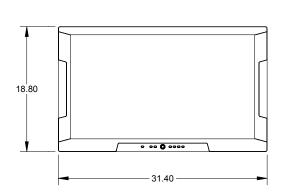
HIGHLIGHTS

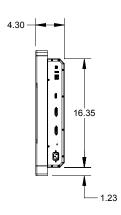
- 32" rugged display platform
- Ultra HD 3840 x 2160 resolution
- Native 4K input @60 Hz
- Integrated Real-Time Enhanced Video Capability
- Consolidate multiple H.264 1080P inputs onto one screen with no scaling
- Consolidate multiple legacy video inputs onto a common screen.
- 4th Generation video controller
- User-friendly on-screen display (OSD) menus
- Robust machined aluminum construction

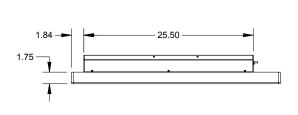
FOR MORE INFO

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

SCHEMATICS







TECHNICAL SPECIFICATIONS

SIZE & WEIGHT 18.8" H x 31" W x 5.1" D **Dimensions**

> 43 lbs. / 19 kg Weight

POWER Power Supply 100-240Vac, 4.0-2.0A, 50-60Hz, 320W Max

> Power Consumption 150W

SPECIFICS Panel Size 31.5" active display area

> Native Resolution 3840 x 2160

Backlight LED

Brightness Native Panel Typical 450nits. (Micromesh or touch options will reduce panel brightness.)

Contrast Ratio 1000:1 Color Palette 1.0783 Billion

Viewing Angle For CR>10; 88°Horizantal & Vertical Multiple PIP Options available Picture-In-Picture

Panel Options AR Bonded

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

Connectors Display Port 1.2 (HBR2 4 Lane), DVI-I x2, USB Type-A, USB Type-B, Gigabit Ethernet,

Front Panel Mini USB Type-B

Mounting Custom, 19" RETMA rack compatible

> 0° to 50° C Operating Temperature Storage Temperature -40° to +70° C

Humidity 5% to 95% Non-condensing @ 40° C for 48 hours

Up to 15,000 ft. Operating Altitude Non-operating Altitude Up to 40\5,000 ft.

Vibration Standard Random Vibration, Section 8, Curve B or B2, 4-25Hz, 1.27gs Sine

Shock 40gs 11ms, terminal Saw-tooth

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

MTBF 50,000 hrs (LED lifetime for panel)

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



ENVIRONMENTAL