



Z MICROSYSTEMS – VEGA DISPLAY SERIES RUGGED LOW-PROFILE DISPLAY PLATFORMS WITH IMAGE PROCESSING

The new Vega display series is engineered and optimized for rugged mobile performance. The Vega can be equipped with Z Micro's latest third generation electronics; featuring Real-Time Enhanced Video (RTEV), a low-profile armored shell, and interactive touch screen functionality options. This display series deploys with a new ultra-high performance modular video processor; supporting all of your Picture-in-Picture (PIP) needs, as well as flexible viewing modes for Dual-View and Quadview monitoring.

The design goal for the Vega series was to deliver an unmatched operator experience with increased performance and ease in viewing multiple video feeds. Designed for 1080p viewing, this Wide Aspect Ratio display offers numerous view mode customizations and on-the-fly easy navigation display buttons. Rugged folding handles translate to convenient installation and transportation, without impeding operation, viewing angle, or consuming valuable space.

Z Microsystems' customers demand the very best in hostile and extreme conditions, which is why we are dedicated to equipping our Armed Forces and DOD customers with the pinnacle in ruggedized deployable computing and display solutions. The Vega display series is a culmination of engineering advances in our other best-selling displays; delivering the robust modularity and flexible viewing configurations of our veteran Orion UDP; along with the low-profile mobile advantages and RTEV functionality implemented in our Intelligent Display Series (IDS) panels.

- 18.5" & 21.5" Wide Aspect Ratio LED Display
- 19" RETMA rack mountable
- Resolution support up to 1920 x 1080p
- Digital and analog video support
- Real-Time Enhanced Video (**RTEV**) capable
- Video controller for future algorithm support
- Infrared touch panel option
- Other options include: AR/AG shield & MicroMesh
- Lightweight aircraft-grade machined aluminum
- Low-profile folding transport handles



Technical Specifications

VEGA Specifications

Active Display Area	21.5"	18.5"
Pixels	1920 x 1080 (2 Million Pixels)	1366 x 768 (1 Million Pixels)
*Brightness	250 cd/m ²	300 cd/m ²
Backlight	LED	
Color Palette	16.7 Million	
Viewing Angle	Full +/- 89°	
Controls	User accessible via Front Panel buttons or SoftMenus	
Options	Infrared Touch, AR shield, AG shield, MicroMesh	

Power

Power Consumption	44 W	40 W
Power Supply	18-36VDC, 8.5A input (EN 60601-1 Medical Certified)	100-240VAC, 2.0A input @ 50-60Hz, 400Hz (MIL-Connector)

Input Connectors

Display	Analog (DVI-I or HD-15), Digital (DVI-I or DVI-D), NTSC/PAL (BNC), HDSDI (BNC)	
Power Cable	6' cable, MIL-ROUND 5015 Connector	
Touch Screen Interface	6' USB Touch Interface	

Physical

Size	13.00" H x 21.19" W x 4.81" D	11.5" H x 18.81" W x 4.66" D
Weight	Approx 17 lbs.	Approx 15 lbs.

Environmental

Operating Temp [^]	0° to +50° C (Extended operating temperature options available)	
Non-Op Temp [^]	-40° to +70° C	
Humidity [^]	5% to 95% Non-condensing, 40°C for 48 hours	
Operating Altitude [^]	Up to 10,000 ft.	
Non-Op Altitude [^]	Up to 40,000 ft.	
Vibration [^]	DO-160 Section 8, Curve B	
Shock [^]	MIL-STD 810G, 30 g's, 11ms, saw-tooth	
Fungus [^]	Non-Nutrients/Contaminants	
EMC/EMI [^]	MIL-STD 461F, RE101 Army Limits, RE102 Shipboard Limits, RS101, RS103 (20v/m 2MHz and 60v/m 1GHz-18GHz), CE102, CS101, CS114	

Reliability

MTBF [^]	50,000 hrs. (Backlight and LCD only)	
MTTR	<30 minutes	

Quality/Workmanship

PC/ISO 9001:2008 and applicable section of MIL-HDBK-454

[^] Typical design specification - may vary between units.

^{**} This information is subject to change without notice. For the most recent test data contact your local Z Microsystems Sales Representative.

Vega - Size Chart

Dimension	21.5"	18.5"
A - Width	13.00"	11.50"
B - Height	21.19"	18.81"
C - Depth	4.81"	4.66"

- Depth will vary based on # of PIPs
- 19" RETMA rack compatible

