

# IDS 21

## RUGGED DISPLAY

Rugged, Low Profile, MIL-Spec,  
Flat Panel LED Display w/RTEV



### Real-Time Enhanced Video

Leveraging a powerful video controller with an onboard FPGA, the IDS 21 hosts Real-Time Enhanced Video (RTEV) technology, allowing the display to apply advanced algorithm enhancements without time delays. User adjustable front panel controls offer on-the-fly algorithm tuning. RTEV-embedded displays deliver significant viewing advantages in: fog, haze, sandstorms, underwater, infrared imaging, low-light, over-saturated video and inclement weather conditions.

### MIL-SPEC Ruggedization

IDS rugged displays are designed and tested to meet full MIL-SPEC requirements. The IDS chassis is constructed from aircraft-grade aluminum making it both durable and lightweight while the internal electronics utilize high performance PCB material. The versatility of the IDS display from its optimized footprint to its robust environmental specifications makes it an ideal display solution for military applications in harsh environments.

### Thin Bezel, Low Profile UXGA LED Display

Utilizing an innovative rear machined aluminum structural support design, ZMicro is able to minimize the front bezel to provide an immersive viewing experience for the operator while providing flexible mounting options. The IDS mounting options include VESA, 19" RETMA rack, or a quick-release mounting for ground control stations.

Ideal for Airborne, Shipboard,  
& Ground Stations

### Don't miss a thing with RTEV!

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



Fog



Smoke

### HIGHLIGHTS

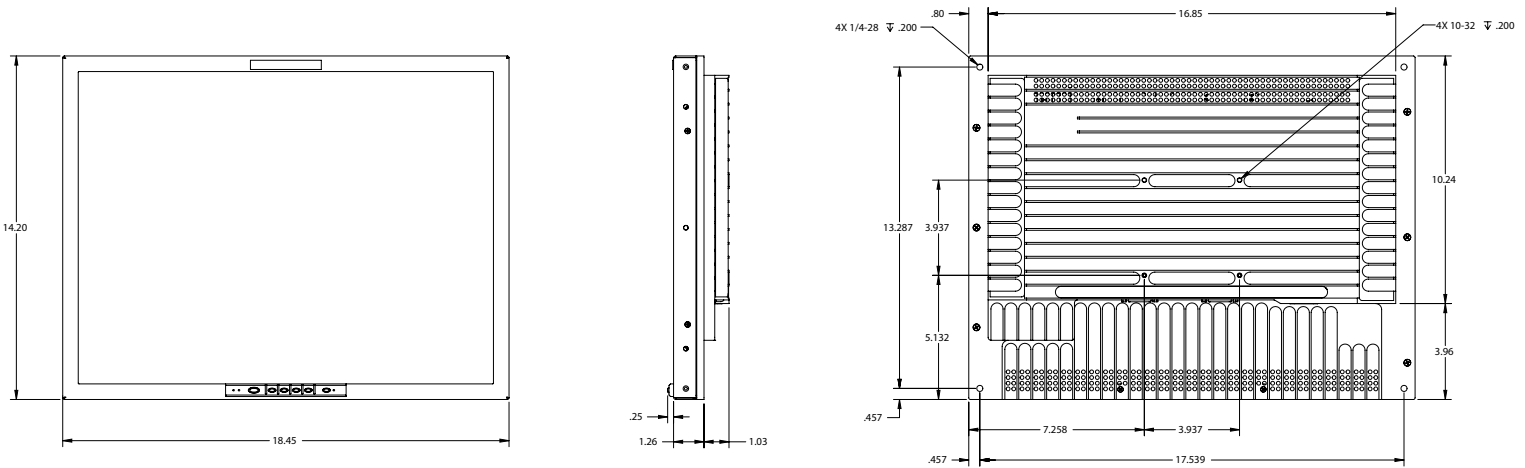
- MIL-Spec, low-profile, rugged display
- 21.3" Active Matrix LCD (AMLCD) panel
- 1600 x 1200 (UXGA) resolution
- LED backlight
- Brightness of 250 cd/m<sup>2</sup>
- Real-Time Enhanced Video (RTEV) capable
- DVI-I (digital and analog) video signal support
- Durable & lightweight machined-aluminum design
- VESA, 19" RETMA, & GCS mounting options
- Resistive touchscreen option
- Optically bonded AR / AG / EMI shield options
- On-screen display for user customization

### FOR MORE INFO

Contact us at [sales@zmicro.com](mailto:sales@zmicro.com)  
or call 858.831.7000.



## SCHEMATICS



## TECHNICAL SPECIFICATIONS

<b>SIZE &amp; WEIGHT</b>	Dimensions	14.2 x 18.45 x 2.29 inch / 361 x 469 x 58 mm
	Weight	18.4 lbs. / 8.35 kg
<b>POWER</b>	Power Supply	100-240V AC, .57A, 50/60 Hz
	Power Consumption	66 W
<b>SPECIFICS</b>	Panel Size	21.3" active viewing area
	Native Resolution	1600 x 1200 (UXGA) (w/scaled support up to 1920 x 1200)
	Backlight	LED
	Brightness	700 cd/m <sup>2</sup>
	Contrast Ratio	1200:1
	Color Palette	16.7 Million
	Controls	INPUT, MENU/SELECT, MINUS, PLUS, EXIT, STANDBY
	Panel Options	Optically bonded AR shield, Resistive touch panel, EMI Mesh, RTEV
	Scaling Modes	No Scale, Fullscreen Scaled, SAR (Scaled w/Aspect Ratio Retained)
	Connectors	2 x DVI-I, C14 IEC 320 socket, USB Type B
	Mounting	VESA (100x100), 19" RETMA (w/adaptor plate bracket), GCS quick-release adapter
<b>ENVIRONMENTAL</b>	Operating Temperature	0° to 50° C
	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	MIL-STD-810F, Method 514.4, Modified C-17 levels
	Shock	MIL-STD-810G, 10gs
	EMI / EMC	MIL-STD-461F, RE101 Army Limits, RE102 Surface Ship Limits, RS101, RS103, CE102,
	MTBF	Min. 50,000 hrs (backlight only)
	MTTR	< 30 mins.
	ESD Safety	IEC 61000-4-2 8kv contact, 15kv air
<b>OTHER</b>	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](http://www.zmicro.com)