



**Talon**<sup>®</sup>  
Rugged LCD Monitors



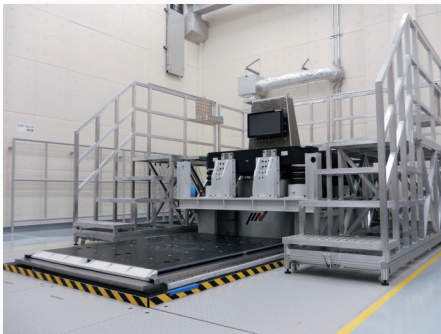
EXTREME RELIABILITY FOR EVERY  
**DEPLOYMENT**

# Rugged Monitors Designed to Thrive in All Domains

The Talon series of COTS (commercial off-the-shelf) rugged LCD monitors offers a range of sizes, screen resolutions, and feature sets for displaying highly detailed rugged applications such as those used in naval display systems, target tracking, mission/ground control centers, and airborne ISR operations.

Adaptable to all military environments, Talon rugged monitors act as a second line of visibility to mission operators and provide personnel with peace of mind knowing every detail captured is displayed accurately. Talon monitors are manufactured and tested 100% in-house by EIZO for complete customization and full quality control.

Developed using the latest image technology, our military-grade LCD monitors offer real-time image enhancement capabilities, surface coatings for optimal viewing clarity, and are compatible with Night Vision Goggles (NVIS) for nighttime missions.



## R&D and Manufacturing

- In-house development of main controller boards, auxiliary PCBs, power supplies, and other components
- ISO Class 1 Clean Room for touchscreen, optical bonding, and EMI mesh filter production
- Exclusive visual display hardware and software designed for rugged markets



## Rigorous Quality Control

- On-site anechoic chambers for compliance with international industry-specific regulations
- Components made in-house to fit QC standards of each model and requirement
- Rigorous individual inspection of every monitor



## Stable Supply

- Stable sourcing based on over 50 years of relationships with key suppliers
- Extended lifecycle support

# Enhancing Mission Visibility with Unique Visual Technologies

EIZO offers its own unique image enhancement technology that increase mission situational awareness for raw video capture applications where a DVE (Degraded Visual Environment) is likely to occur. Image enhancement technology analyzes the content displayed on the screen pixel-by-pixel and enhances the areas most difficult for the human eye to distinguish, allowing operators to see more clearly through visual deterrents such as fog, smoke, snow, and rain.

## Complete Customization for Ideal Functionality

- Optical bonding for improved visibility and durability
- Optional image enhancement technology
- Customizable LED backlight
- Optional sunlight readability (high brightness)
- Dimmable to less than 1 cd/m<sup>2</sup>
- Multitude of interfaces: BNC (3G-SDI), D-Sub, DVI-D, RGB, USB, Serial communication
- NVIS support (MIL-STD-3009 compatible)
- SwitchLink internal switching management technology (keyboard, mouse, dynamic touch)

## Rugged Design

### In-House Durability Test Center

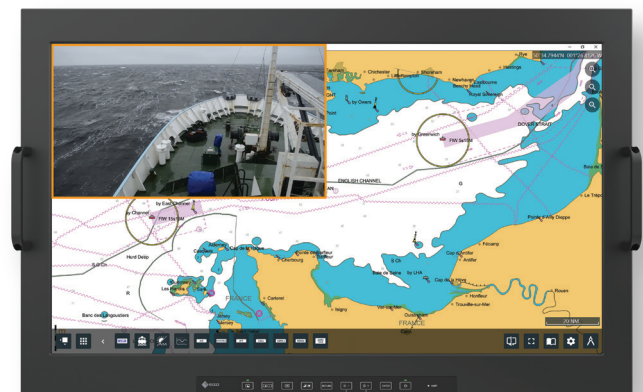
- Tested for MIL-STD-810 and MIL-STD-461 compliance
- Vibration and shock testing
- Humidity and decompression testing
- Extreme temperature testing

### Designed for Harsh Environments

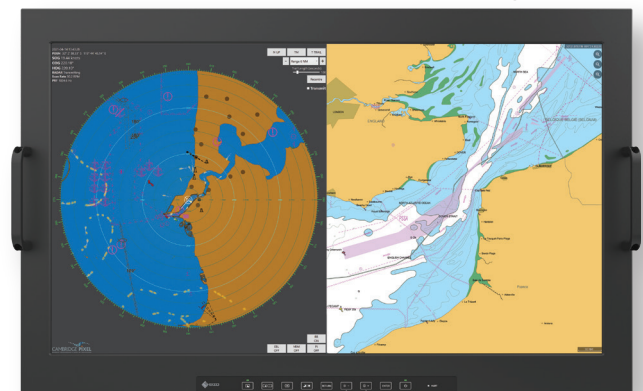
- Customized housing to fit any installation
- Customizable LED backlight
- Optical bonding for improved visibility and durability
- IP65 (front) protection
- PCB conformal coating for protecting circuitry in harsh environments
- Optional heater for protection against low temperatures
- Surface coatings

## Various Sizes and Feature Sets

- Panel sizes of 21.5 to 32 inches (other sizes available upon request)
- Standard and touchscreen options (PCAP, analog resistive)
- Resolutions of up to 4K UHD (3840 x 2160)
- Optional monitor handles



*Picture-in-Picture*



*Picture-by-Picture*



# Specifications



**RGD3202W**



**RGD2401W**



**RGD2102W**



**RGD2101W**

Model Variation	Non-Touchscreen, Touchscreen, NVIS	Non-Touchscreen, Touchscreen, NVIS	Non-Touchscreen, Touchscreen, NVIS	Non-Touchscreen, Touchscreen
<b>Panel</b>				
Backlight	LED	LED	LED	LED
Size	32.0"	24.1"	21.5"	21.5"
Native Resolution	3840 x 2160 (16:9 aspect ratio)	1920 x 1200 (16:10 aspect ratio)	1920 x 1080 (16:9 aspect ratio)	1920 x 1080 (16:9 aspect ratio)
Viewable Image Size (H x V)	708.5 x 398.5 mm	518.4 x 325 mm	476.6 x 268.1 mm	476.6 x 268.1 mm
Display Colors	1.07 billion (10-bit display)	16.77 million (8-bit display)	16.77 million (8-bit display)	16.77 million (8-bit display)
Viewing Angles (H / V, typical)	178° / 178°	178° / 178°	178° / 178°	178° / 178°
Brightness (typical)	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
Contrast Ratio (typical)	1350:1	1500:1	5000:1	5000:1
Response Time (typical)	18 ms	18 ms	25 ms	25 ms
<b>Touch Panel</b>				
Type	Projected Capacitive	Projected Capacitive	Projected Capacitive	Analog Resistive
Touch Points	10	5	5	1
Surface Treatment	Anti-Glare coating, Anti-Fingerprint coating	Anti-Glare coating	Anti-Glare coating, Anti-Fingerprint coating	Anti-Glare coating
Communication Protocol	USB	USB	USB	USB
Surface Hardness	5 H	5 H	5 H	3 H
Compatible OS	Windows 11 (64-bit), Windows 10 (64-bit, 32-bit), Linux	Windows 10, Linux	Windows 10, Linux	Windows 10, Linux
<b>Video Signals</b>				
Input Terminals	DisplayPort x2, HDMI x2, 12G-SDI (optional)	D-Sub, DVI-D x2, BNC (3G-SDI) x2	D-Sub, DVI-D x2, BNC (3G-SDI) x2	D-Sub, DVI-D x2, BNC (3G-SDI) x2
Output Terminals	-	BNC (3G-SDI) x2	BNC (3G-SDI) x2	BNC (3G-SDI) x2
Digital Scanning Frequency (H / V)	31 - 135 kHz / 29 - 61 Hz	31 - 76 kHz / 59 - 61 Hz	31 - 75 kHz / 59 - 61 Hz	31 - 75 kHz / 59 - 61 Hz
Analog Scanning Frequency (H / V)	-	31 - 76 kHz / 59 - 61 Hz	31 - 75 kHz / 59 - 61 Hz	31 - 75 kHz / 59 - 61 Hz
Sync Formats	Separate	Separate, Composite, Sync-on-Green	Separate, Composite, Sync-on-Green	Separate, Composite, Sync-on-Green
<b>USB</b>				
Upstream	USB 2.0: Type-B	USB 2.0: Type-B	USB 2.0: Type-B	USB 2.0: Type-B
<b>Power</b>				
Power Connector	MIL-DTL-38999 Series III	MIL-DTL-38999 Series III	MIL-DTL-38999 Series III	MIL-DTL-38999 Series III
Power Requirements	DC 18 - 36 V MIL-STD-704F	DC 18 - 36 V MIL-STD-704F	DC 18 - 36 V MIL-STD-704F	DC 18 - 36 V MIL-STD-704F
Maximum Power Consumption	TBD	63 W	61 W	44 W
<b>Features &amp; Functions</b>				
Communication Interface	USB, RS-232C, RS-485	USB, RS-232C	USB, RS-232C	USB, RS-232C
<b>Physical Specifications</b>				
Dimensions (Landscape, W x H x D)	30.512 x 18.760 x 4.291 in (775 x 476.5 x 109 mm)	22.835 x 16.142 x 3.524 in (580 x 410 x 89.5 mm)	21.201 x 13.701 x 3.15 in (538.5 x 348 x 80 mm)	20.791 x 12.748 x 3.089 in (528.1 x 323.8 x 78.5 mm)
Net Weight	TBD	20.5 lbs (9.3 kg)	22 lbs (10 kg)	19.8 lbs (9 kg)
<b>Environmental Requirements</b>				
Operating Temperature	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6 Proc. II
Non-Operating Temperature	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. I
Operating Humidity (R.H., non condensing)	95% R.H. @max 40 °C MIL-STD-810G, Method 507.6	95% R.H. @max 60 °C MIL-STD-810G, Method 507.6	95% R.H. @max 60 °C MIL-STD-810G, Method 507.6	95% R.H. @max 40 °C MIL-STD-810G, Method 507.6
Vibration	MIL-STD-167-1 Type 1	MIL-STD-810G, Method 514.7 Proc. I MIL-STD-167-1 Type 1	MIL-STD-810G, Method 514.7 Proc. I MIL-STD-167-1 Type 1	MIL-STD-810G, Method 514.7 Proc. I
Shock	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7	20 g - 11 ms, Sawtooth MIL-STD-810G, Method 516.7
Operating Altitude	0 to 16,500 ft MIL-STD-810G, Method 500.6	0 to 10,000 ft MIL-STD-810G, Method 500.6	0 to 16,500 ft MIL-STD-810G, Method 500.6	0 to 10,000 ft MIL-STD-810G, Method 500.6
Non-Operating Altitude	0 to 40,000 ft MIL-STD-810G, Method 500.6	0 to 40,000 ft MIL-STD-810G, Method 500.6	0 to 40,000 ft MIL-STD-810G, Method 500.6	0 to 40,000 ft MIL-STD-810G, Method 500.6
Degree of Protection	IP65 (front)	IP65 (front)	IP65 (front)	IP65 (front)
<b>Certifications &amp; Standards</b>	MIL-STD-810G, MIL-STD-167-1, MIL-STD-704F, MIL-STD-461G, IEC 60529, CE, UKCA, FCC-A	MIL-STD-810G, MIL-STD-167-1, MIL-STD-704F, MIL-STD-461G, IEC 60529, FCC-A, CE	MIL-STD-810G, MIL-STD-167-1, MIL-STD-704F, MIL-STD-461G, IEC 60529, FCC-A, CE	MIL-STD-810G, MIL-STD-704F, MIL-STD-461G, IEC 60529, FCC-A, CE
<b>Customization</b>				
Touch Panel	Optional	Optional	Optional	Optional
NVIS Support	Optional	Optional	Optional	-
Internal Heater	Optional	Optional	Optional	-
Image Enhancement Technology	Optional	Optional	Optional	Optional
SwitchLink Internal Switching Management Technology	Optional	-	-	-
Carrying Handles	Optional	Optional	Optional	Optional

Contact EIZO with your request. [talon@eizo.com](mailto:talon@eizo.com)

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