

# Specifications

## RGD2401W

## RGD2101W

## RGD2001

Model Variation	Panel Mount - Standard	Panel Mount - Standard	Panel Mount - Standard
Cabinet Color	Black	Black	Black
Panel	Type	IPS	VA
	Backlight	LED	LED
	Size	24.1"	21.5"
	Native Resolution	1920 x 1200 (16:10 aspect ratio)	1920 x 1080 (16:9 aspect ratio)
	Viewable Image (H x V)	518.4 x 324 mm	476.6 x 268.1 mm
	Pixel Pitch	0.270 x 0.270 mm, 94 ppi	0.248 x 0.248 mm, 102 ppi
	Display Colors	16.77 million (8-bit display)	16.77 million (8-bit display)
	Viewing Angles (H / V, typical)	178° / 178°	178° / 178°
	Brightness (typical)	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
	Contrast Ratio (typical)	1400:1	5000:1
Response Time (typical)	20 ms	25 ms	
Touch Panel	Type	Projected Capacitive	Resistive
	Communication Protocol	USB	USB
	Touch Life	50 million touches (minimum)	36 million touches (minimum)
Video Signals	Compatible OS	Windows 8/8.1/10 / Linux	Windows 8/8.1/10 / Linux
	Input Terminals	D-Sub	D-Sub
		DVI-D x 2	DVI-D x 2
		BNC (3G-SDI) x 2	BNC (3G-SDI) x 2
	Output Terminals	BNC (3G-SDI) x 2	BNC (3G-SDI) x 2
	Digital Scanning Frequency (H / V)	31 - 76 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
Sync Formats	Separate, Composite	Separate, Composite	
USB	Upstream	USB 2.0: Type-B	USB 2.0: Type-B
	Downstream	—	—
Power	Power connector	MIL-DTL-38999	MIL-DTL-38999
	Power Requirements	DC 18 - 36V	DC 18 - 36V
	Maximum Power Consumption	65 W	51 W
Physical Specifications	Dimensions (W x H x D)	22.83" x 16.14" x 3.54" (580 x 410 x 90 mm)	20.79" x 12.75" x 3.09" (528.1 x 323.8 x 78.5 mm)
	Net Weight	21.2 lbs (9.6 kg)	19.8 lbs (9 kg)
Temperature	Operating	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6	-20 to 55 °C MIL-STD-810G, Method 501.6/502.6
	Storage	-20 to 60 °C MIL-STD-810G, Method 501.6/502.6	-20 to 60 °C MIL-STD-810G, Method 501.6/502.6
Humidity (R.H., non-condensing)	95% R.H. @max. 60 °C MIL-STD-810G, Method 507.6	95% R.H. @max. 40 °C MIL-STD-810G, Method 507.6	
Altitude	Operating	0 to 10,000ft MIL-STD-810G, Method 500.6	0 to 10,000ft MIL-STD-810G, Method 500.6
	Storage	0 to 40,000ft MIL-STD-810G, Method 500.6	0 to 40,000ft MIL-STD-810G, Method 500.6
Degree of Protection	IP65 (Front)	IP65 (Front)	
Certifications & Standards	Vibration	MIL-STD-810G, Method 514.7, Procedure I	MIL-STD-810G, Method 514.7, Procedure I
	Shock	20G - 11ms MIL-STD-810G, Method 516.7	20G - 11ms MIL-STD-810G, Method 516.7
	EMC	MIL-STD-461G, FCC-A	MIL-STD-461G, FCC-A
Other Functions	NVIS		
	Defog/Dark area compensation		
	Heater		
	Monitor control via serial communication	USB, RS-232C	USB, RS-232C
Supplied Accessories	User's manual	Setup manual, Signal cables (TBD)	Setup manual, Signal cables (TBD)



# Rugged Monitor Solutions

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## EIZO Rugged Solutions

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## Over 50 YEARS Experience

EIZO is a global leader with over 50 years experience developing innovative visual display solutions for mission-critical and rugged markets including defense, military, air traffic control, maritime, healthcare, industrial and more.

### Everything IN HOUSE

#### Research and Development

- 100% in-house development of main controllers, PCBs, power supplies, and other electronics.
- Exclusive visual display hardware and software designed for the market

#### Rigorous Quality Control

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

#### Stable Supply

- Stable acquisition of components
- Extended lifecycle support

#### 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

### Fully CUSTOMIZABLE

#### ISO Class 1 Clean Room

- Touchscreen production
- High quality OCR and OCA optical bonding
- NVIS
- EMI mesh filter

#### Conform to Environmental Needs

- PCB conformal coating for protecting circuitry in harsh environments
- Heater for protection against low temperatures

## VERSATILE and Mission-Ready

The Talon series of COTS rugged monitors are ready to be used in extreme environments, and can be custom made to fit any additional needs. Be it the latest applications and systems or retrofitting to legacy systems, Talon can be made to suit your rugged environment.

### RUGGED Design

#### The Ultimate Rugged Monitor

- Designed for harsh environments
- MIL-STD-810 and MIL-STD-461
- LED backlight
- Optical bonding for improved visibility and durability
- IP65 protection (front)

#### Convenience and Usability

- Multitude of interfaces: 3G-SDI, DVI, RGB, USB, Serial communication
- 19" rack-mountable
- Picture-in-Picture and Picture-by-Picture
- Multi-touch and resistive touch options
- Dimmable to less than 1 cd/m<sup>2</sup>



RGD2401W

### Complete CUSTOMIZATION

#### Various Sizes and Interfaces

- Panel sizes of 20.1", 21.5", 24" and more
- Customizable housing size to fit any need
- Add or remove interfaces as necessary

#### Adaptable to Your Environment

- Optional image enhancement technology
- Operating temperature endurance from -20°C to 55°C
- Rapid customization to meet your needs.



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