

Specifications



RGD2401W



RGD2102W



RGD2101W

Model Variations		Non-Touch, Touchscreen, NVIS		Non-Touch, Touchscreen, NVIS	Non-Touch, Touchscreen
Cabinet Color		Black		Black	Black
Customization	Touch Panel	Optional		Optional	Optional
	NVIS Optimization	Optional		Optional	-
	Internal Heater	Optional		Optional	-
	Defog / Dark Area Compensation	Optional		Optional	Optional
	Carrying Handles	Optional		Optional	Optional
Panel	Backlight	LED		LED	LED
	Size	24.1"		21.5"	21.5"
	Native Resolution	1920 x 1200 (16:10 aspect ratio)		1920 x 1080 (16:9 aspect ratio)	1920 x 1080 (16:9 aspect ratio)
	Viewable Image (H x V)	518.4 x 325 mm		476.6 x 268.1 mm	476.6 x 268.1 mm
	Display Colors	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°
	Brightness (typical)	350 cd/m ²		350 cd/m ²	350 cd/m ²
	Contrast Ratio (typical)	1500:1		5000:1	5000:1
	Response Time (typical)	18 ms		25 ms	25 ms
Touch Panel (optional)	Type	Projected Capacitive		Projected Capacitive	Analog Resistive
	Touch Points	5		5	1
	Surface Treatment	Anti-Glare coating		Anti-Glare coating	Anti-Glare coating
	Communication Protocol	USB		USB	USB
	Touch Life	50 million touches (minimum)		36 million touches (minimum)	36 million touches (minimum)
	Surface Hardness	5H		5H	3H
	Compatible OS	Windows 10, Linux		Windows 10, Linux	Windows 10, Linux
Video Signals	Input Terminals	D-Sub, DVI-D x 2, BNC (3G-SDI) x 2		D-Sub, DVI-D x 2, BNC (3G-SDI) x 2	D-Sub, DVI-D x 2, BNC (3G-SDI) x 2
	Output Terminals	BNC (3G-SDI) x 2		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	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, Composite, Sync-on-Green		Separate, Composite, Sync-on-Green	Separate, Composite, Sync-on-Green
USB	Upstream	USB 2.0: Type-B		USB 2.0: Type-B	USB 2.0: Type-B
Power	Power Connector	MIL-DTL-38999 Series III		MIL-DTL-38999 Series III	MIL-DTL-38999 Series III
	Power Requirements	DC 18 - 36 V MIL-STD-704E		DC 18 - 36 V MIL-STD-704E	DC 18 - 36 V MIL-STD-704E
	Maximum Power Consumption	63 W		61 W	44 W
Physical Specifications	Dimensions (W x H x D)	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	20.5 lbs (9.3 kg)		22 lbs (10 kg)	19.8 lbs (9 kg)
Environmental Requirements	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
	Storage Temperature	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. II		-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. II	-40 to 71 °C MIL-STD-810G, Method 501.6/502.6 Proc. II
	Operating Humidity (R.H., non-condensing)	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-810G, Method 501.6/502.6 Proc. I MIL-STD-167-1 Type 1		MIL-STD-810G, Method 501.6/502.6 Proc. I MIL-STD-167-1 Type 1	MIL-STD-810G, Method 501.6/502.6 Proc. I MIL-STD-167-1 Type 1
	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
	Operating Altitude	0 to 10,000 ft MIL-STD-810G, Method 500.6		0 to 10,000 ft MIL-STD-810G, Method 500.6	0 to 10,000 ft MIL-STD-810G, Method 500.6
	Storage 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
	Degree of Protection (Dust & Water Proof)	IP65 (Front)		IP65 (Front)	IP65 (Front)
Certifications & Standards	Reliability	MIL-STD-461G, IEC 60529		MIL-STD-461G, IEC 60529	MIL-STD-461G, IEC 60529
	EMC	MIL-STD-461G, FCC-A		MIL-STD-461G, FCC-A	MIL-STD-461G, FCC-A
Other	Monitor Control (Serial Communication)	USB, RS-232C		USB, RS-232C	USB, RS-232C

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Talon™
Rugged Monitor Solutions



Extreme reliability for every
DEPLOYMENT

Over 50 YEARS Experience

EIZO has over 50 years of experience developing innovative visual display solutions for mission-critical 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 controller boards, auxiliary PCBs, power supplies, and other components
- 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

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

Added VALUE

ISO Class 1 Clean Room

- Touchscreen production
- High quality optical clear resin (OCR) and optical clear adhesive (OCA) optical bonding
- EMI mesh filter

Meeting Environmental Needs

- Environmental Stress Screening (ESS) for high performance in extreme temperatures
- PCB conformal coating for protecting circuitry in harsh environments
- Optional heater for protection against low temperatures

VERSATILE and Mission-Ready

The Talon Series of COTS rugged monitors are ready to be deployed in extreme environments, and can be custom made to fit specific requirements. Be it applications for the latest systems or retrofitting legacy systems, Talon can be customized to suit your rugged environment.

RUGGED Design

Designed for Harsh Environments

- MIL-STD-810 and MIL-STD-461
- Customizable LED backlight
- Optical bonding for improved visibility and durability
- IP65 (front) protection
- Optional sunlight readability (high brightness)

Convenience and Usability

- Multitude of interfaces: BNC (3G-SDI), D-Sub, DVI-D, RGB, USB, Serial communication
- 19" rack-mountable
- Picture-in-Picture and Picture-by-Picture
- Dimmable to less than 1 cd/m²



Talon RGD2401W
24.1" Rugged LCD Monitor (1920 x 1200)

Complete CUSTOMIZATION

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)
- Customized housing to fit any installation
- Add or remove interfaces as required

Adaptable to Customer Needs

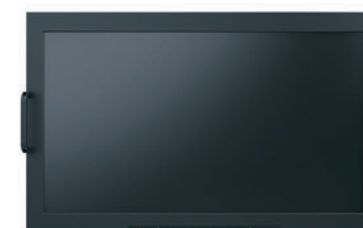
- NVIS support
- Optional image enhancement technology
- Optional monitor handles
- In-house development allows for flexible turn around to meet customization requirements



Talon RGD2102W
21.5" Rugged LCD Monitor with NVIS
(1920 x 1080)



Talon RGD2802
28" Rugged LCD Monitor
(2048 x 2048)



Talon RGD3202W
32" Rugged LCD Monitor
(3840 x 2160)