



28.1" Color LCD Monitor  
**Raptor® SQ2802**

*The Raptor SQ2802 is a 2K × 2K primary control monitor featuring EIZO's new eBlue LED backlight technology. With eBlue, the monitor offers outstanding image quality, low total cost of ownership, and minimal eco footprint.*

- 2048 × 2048 native resolution
- 350 cd/m<sup>2</sup> brightness
- Backlight lifetime of over 100,000 hours
- Low power consumption



#### **EIZO eBlue LED Backlight Technology**

The Raptor SQ2802 employs EIZO's eBlue LED technology which consumes just 120 watts at the monitor's maximum brightness of 350 cd/m<sup>2</sup> and 60 watts at a typical brightness of 70 cd/m<sup>2</sup> used in many ATC control centers. This significantly decreases both heat production and electricity costs. Additionally, it increases the backlight lifetime to at least 100,000 hours which is more than 11 years of continuous operation. Also, eBlue LED backlight technology delivers improved brightness uniformity and reduced color shift across the 28-inch screen for better visual characteristics.

#### **Backlight Stabilizer and Backwards Compatible Backlight Trays**

An integrated automatic backlight stabilizer allows for setting the backlight brightness to ensure that it remains constant. When the backlight trays inevitably need replacing due to aging, they can be easily swapped out on site, saving considerable expense and downtime. Furthermore, the eBlue LED backlight trays are backwards compatible with CCFL backlight trays meaning they can also be implemented in EIZO's previous 2K × 2K monitor, the Raptor SQ2801.

#### **Multiple Input Connectors**

Two DVI-I (digital dual link) connectors are included as standard. Single or dual BNC × 5 analog connectors are available as an option to allow the monitor to serve as a drop-in replacement for the Sony DDM CRT.

#### **Customization Options**

To meet the requirements of different installations, the Raptor SQ2802 comes in desktop, VESA-mount, panel-mount, and chassis versions. It is also available without a fan and with a second power supply.

#### **1000:1 Contrast Ratio**

This high contrast ratio makes it easier to distinguish easily between similarly colored figures in large spreads of data, which helps reduce the possibility of error. It also ensures dark tones are more distinct, therefore making the monitor suited to dim environments such as control centers.

#### **Detailed Screen Adjustments**

An abundance of on-screen display functions simplify adjusting the screen as well as provide extensive color control. A quick-access OSD menu allows for adjusting frequently used functions like brightness and contrast. Other adjustments offered in the more detailed OSD menu include gamma, color temperature, sharpness, image position, and backlight control.

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# Raptor<sup>®</sup> SQ2802

## Multiple Resolution Support and Image Scaling

The Raptor SQ2802 supports resolutions from 640 × 480 up to its native resolution of 2048 × 2048. Any non-native resolution can be displayed in its actual size, scaled proportionately, or expanded to fill the screen. This is helpful when receiving other non-native resolutions as is typically necessary for setup. It also means a smaller auxiliary monitor is not necessary to view boot data or failure data.



Actual image size

Enlarged

Full screen

## Heat Output and Power Consumption

The heat produced by a monitor is a key factor in long term product performance. Most monitors for air traffic controllers are located inside an enclosed console and therefore reduction of heat output is crucial to the reliability of all hardware inside the console. By consuming just 60 watts of power in normal operation and 20 watts in standby mode, the Raptor SQ2802 keeps heat output low. This not only improves product reliability and performance, but also lessens the power requirements for air conditioners in the control center to further save on electricity costs.

## About EIZO

EIZO manufactures a complete lineup of visual display and recording solutions for ATC environments. The company's products include primary control monitors, high-bright monitors, auxiliary and touch-screen monitors, graphics boards, and hardware/software recording solutions. Founded in 1968, EIZO is listed on the First Section of the Tokyo Stock Exchange (TSE: 6737) and represented in more than 60 countries around the world.



## Specifications

Panel	Size	28.05" / 71 cm (712 mm diagonal)
	Native Resolution	2048 × 2048
	Display Size (H × V)	503.808 × 503.808 mm
	Pixel Pitch	0.246 × 0.246 mm
	Display Colors	16.7 million
	Viewing Angles (H / V, typical)	170°, 170°
	Brightness (typical)	350 cd/m <sup>2</sup> (maximum), less than 20 cd/m <sup>2</sup> (minimum)
	Contrast Ratio (typical)	1000:1
	Backlight	eBlue LED
	Response Time (typical)	25 ms
Video Signals	Input Terminals	DVI-I 29 pin × 2 (standard), Single or Dual 5-BNC (optional)
	Analog Scanning Frequency (H / V)	30 - 130 kHz, 50 - 70 Hz
	Sync Formats	Separate Sync 1-5 Vss (75 Ω)
Power	Power Requirements	AC 90 - 264 V, 47 - 63 Hz
	Maximum Power Consumption	160 W (Brightness: 350 cd/m <sup>2</sup> )
	Typical Power Consumption Standby Mode	60 W (Brightness: 70 cd/m <sup>2</sup> ) 20 W
Features & Functions	Brightness Stabilization	Yes
	OSD Languages	English, German
	Others	RS232 Interface, RS422 interface, TCP/IP Interface, External Keyboard Interface
Physical Specifications	Dimensions (W x H x D)	Chassis Type: 616 × 613 × 129.5 mm / 24.3 × 24.1 × 5.1" Desktop Type: 671 × 695 × 240 mm / 26.4 × 27.4 × 9.4" Panel Mount Type: 644 × 644 × 130 mm / 25.4 × 25.4 × 5.2" VESA Mount Type: 671 × 633 × 150 mm / 26.4 × 24.9 × 5.9"
	Net Weight	Chassis Type: 28 kg / 61.7 lbs Desktop Type: 40 kg / 88.2 lbs Panel Mount Type: 31 kg / 68.3 lbs VESA Mount Type: 36.1 kg / 79.6 lbs
Environmental Requirements	Temperature	0 - 40°C / 32 - 104°F
	Humidity (R.H., non condensing)	Max. 95% (no condensation)
Certifications & Standards		CE, UL, c-UL, FCC-B, RoHS, WEEE



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