Raptor® SQ2814

*T*he Raptor SQ2814 is an advanced 2K × 2K primary control monitor developed to meet the specific requirements of mission critical ATC environments. Featuring EIZO's unique eBlue LED backlight technology, the monitor offers superior image quality, low energy consumption, and a long lifetime.

- *EIZO eBlue direct LED backlight technology*
- *10 cd/m² to 350 cd/m² wide brightness range*
- *Non-intrusive hardware calibration*
- *Highly customizable to satisfy individual requirements*
- *Durability with full sheet steel industrial-grade housing*

EIZO *e*Blue LED Backlight Technology

The Raptor SQ2814 is equipped with EIZO *e*Blue LED backlight technology — a unique blue LED direct backlight solution that offers superior brightness uniformity with a low variance of 1.05. This results in significantly smoother images compared to edge-type backlight solutions. With EIZO *e*Blue, the monitor can maintain brightness levels between 10 cd/m² and 350 cd/m² over a lifetime of more than 100,000 hours for long-lasting, consistent performance.

Energy Efficiency and Reduced Heat Generation

With EIZO *e*Blue LED backlight technology, the monitor consumes 100 watts at maximum brightness and just 50 watts under typical operating conditions in ATC centers. This saves energy and significantly reduces heat generation within the monitor, a leading cause of component failure.

Ergonomic Design and Durability

The Raptor SQ2814 comes with all the features and functionality of EIZO's line of primary control monitors in a more compact design, weighing just 23.5 kg. The ergonomically designed stand offers tilt and swivel capability for flexible positioning. The monitor is built using full sheet steel industrial-grade housing for durability.

Noiseless, Fanless Operation

Engineered to dissipate heat without a fan, the monitor provides noiseless operation while still maintaining low heat output.

Non-Intrusive Hardware Calibration

The monitor comes equipped with EIZO's hardware calibration functionality using the optional EIZO EACAL-R01 luminance reader. Easily accessed through the OSD menu, calibration of the backlight brightness, gamma, and white-point can be carried out in just minutes. No additional software is needed, ensuring calibration operation is non-intrusive to your system.

Backlight Stabilization

An automatic backlight stabilizer ensures your desired brightness settings are constantly maintained throughout the life of the backlight trays.

Complete Connection

Dual link DVI video signal inputs are included as well as the option of an additional DisplayPort and analog 5-BNC inputs. The monitor also comes equipped with a wide range of communication interfaces for connection to a network, remote monitor management, or maintenance purposes — RS232, RS422, USB, and TCP/IP.

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Customization Options

Customize the monitor to meet the specific needs of individual control centers. Customization may include, but is not limited to, cabinet color, multiple video signal interfaces, a built-in secondary power supply, protection and reflection glass, communication interfaces, and warranty upgrades.

Simple OSD Operation

Frequently used functions, such as brightness, can be adjusted via a quick-access OSD menu. The main OSD menu provides a more thorough level of adjustment such as calibration, color temperature, gamma, backlight control, sharpness, and communication parameters. The main OSD can also be locked with the option of using a user-specified code to authorize access.
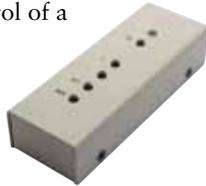
Optional Accessories

EACAL-R01

External advanced serial luminance meter for high-precision monitor calibration.

EACON-S01

External OSD keyboard for control of a single monitor.

Specifications

Panel	Size	28.05" / 71 cm (712 mm diagonal)
	Native Resolution	2048 × 2048
	Viewable Image Size (H × V)	503.808 × 503.808 mm
	Pixel Pitch	0.246 mm × 0.246 mm
	Display Colors	16.7 million
	Viewing Angles (H / V, typical)	170°, 170°
	Brightness (typical)	350 cd/m^2 (maximum), less than 10 cd/m^2 (minimum)
	Contrast Ratio (typical)	1000: 1
	Backlight	EIZO *e*Blue LED (direct backlight)
	Response Time (typical)	25 ms
Video Signals	Input Terminals	DVI-I 29 pin × 2 (standard), DisplayPort (optional), 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	100 W (350 cd/m^2)
	Typical Power Consumption	50 W (70 cd/m^2)
	Standby Mode	5 W
Features & Functions	Brightness Stabilization	Yes
	Hardware Calibration	Yes (Requires luminance meter: EACAL-R01)
	External OSD Keyboard	Yes (Requires hardware keyboard: EACON-S01)
	Others	OSD Lock
	OSD Languages	English, German, Spanish, French
	Communication Protocol	RS232, RS422, USB, TCP/IP
Physical Specifications	Dimensions (W × H × D)	Desktop: 603 × 642 × 323 mm VESA Mount: 603 × 603 × 109 mm
	Net Weight	Desktop: 23.5 kg / 51.8 lbs. VESA Mount: 18.5 kg / 40.8 lbs
Environmental Requirements	Temperature	0 – 40°C / 32 – 104°F
	Storage Temperature	-25 – 60 °C / -13°F – 104°F
	Humidity (R.H., non condensing)	Max. 95% (no condensation)
Certifications & Standards		CE, UL, c-UL, FCC-B, RoHS, WEEE