

Leap into the future with the next generation of 2K x 2K LCD monitor designed specifically for Air Traffic Control. The Raptor SQ2801 LCD provides a wide array of features including a high native contrast ratio, outstanding brightness, low heat output and power consumption, and a full two year warranty. Whether the need is for analog or digital inputs, this monitor delivers the highest video quality in its market.



FEATURES

Multiple Input Connectors

The Raptor SQ2801 LCD comes equipped with an analog BNC x 5 and two DVI-D (dual link) connectors so it can work seamlessly in any technical environment. The triple-interface architecture offers the ability to implement redundancy plans, which are essential in mission critical areas such as air traffic control should a PC system ever falter. Analog support also allows the monitor to serve as a drop-in replacement for the Sony DDM CRT.

Flexible Installation

Three versions are available for different installation requirements. Chassis and panel-mount versions are designed to fit into existing consoles with rear and front mounting respectively, and the desktop version is ideal where desktop functionality is preferred.

Backlight Stabilizer and Replaceable Backlight Trays

An integrated automatic backlight stabilizer allows the user to set the backlight brightness to a value between 30 and 150 cd/m² and ensures backlight brightness 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.

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.

Best Response Time In Its Class

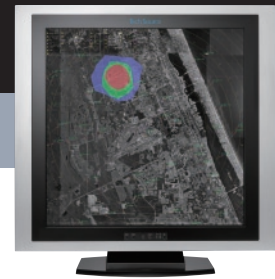
This fast response time ensures that moving images such as weather patterns, tracks, and rubber-banding will be displayed clearly and without image delay. This will not only benefit the controller immediately with clear and sharp images, but it will also reduce eye fatigue over the course of a shift.

Detailed Screen Adjustments

An abundance of on-screen display functions simplify adjusting the screen as well as providing extensive color control. A quick 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.

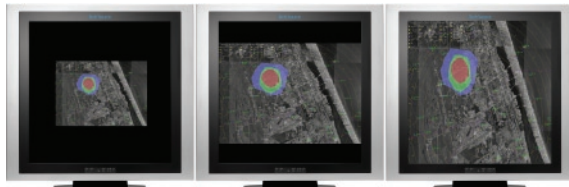
Raptor™ SQ2801

28.1" Color LCD Monitor



Multiple Resolution Support and Image Scaling

The Raptor SQ2801 LCD 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 using the monitor's single link input or 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 150 watts of power in normal operation and 15 watts in standby mode, the Raptor SQ2801 LCD 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.

Two Year Warranty

The Raptor SQ2801 LCD is backed by a two year manufacturer's warranty.

About Tech Source

Tech Source, Inc. has provided computer graphics hardware solutions to the ATC and military markets for over 20 years. In 2007, Tech Source became a subsidiary of Eizo Nanao Corporation, a leading manufacturer of high-end display monitors. Both companies have combined their mutual expertise and complementary product lines to provide the ATC market with a wide range of compelling visual display solutions.

Specifications

Panel	Panel Size and Type	28" (71 cm) TFT color LCD panel	
	Viewing Angles (H, V)	170°, 170°	
	Brightness	225 cd/m ² (maximum) 22.5 cd/m ² (minimum)	
	Contrast Ratio	1000:1 (typical)	
	Backlight	3 x CCFT-Trays (Cold Cathode Fluorescent Tube)	
	On/Off Response Time	25 ms (typical)	
	Native Resolution	2048 × 2048	
	Active Display Size (H × V)	503.808 × 503.808 mm	
	Viewable Image Size	Diagonal: 28.05" (71.12 cm)	
	Pixel Pitch	0.246 × 0.246 mm (103 ppi)	
	Display Colors	16.7 million	
	RGB Analog Input Signal	Scanning Frequency (H, V)	30 – 130 KHz, 50 – 70 Hz
		Terminal	BNC × 5
Level (Video)		0.7 V _{ss} RGB (50 Ω)	
Synchronization		Separate Sync 1-5 V _{ss} (75 Ω)	
DVI Input Signals	Type	DVI Standard 1.0 (dual link)	
	Terminals	DVI-I 29 pin × 2	
	Pixel Clock	2 × 165 Mhz (maximum)	
Power	Power Consumption	110 W – 150 W (typical) at brightness of 70 – 210 cd/m ²	
	Power Save Mode (Standby)	15 W (typical)	
Physical Specifications	Dimensions (W × H × D)	Chassis Type: 24.3 × 24.1 × 5.1" / 616 × 613 × 129.5 mm Desktop Type: 26.4 × 27.4 × 9.4" / 671 × 695 × 240 mm Panel Mount Type: 25.4 × 25.4 × 5.2" / 644 × 644 × 130 mm	
Net Weight		Chassis Type: 61.7 lbs / 28 kg Desktop Type: 88.2 lbs / 40 kg Panel Mount Type: 68.3 lbs / 31 kg	
Environmental Specifications	Operating Temperature	32° to 104° F (0° to 40° C)	
	Storage Temperature	-13° to 140° F (-25° to 60° C)	
	Humidity	10 to 80% relative humidity, non-condensing	
Control / Settings		RS232 / RS422 / OSD (on screen display)	
Auto Adjustment Functions		Frequency / Phase (analog only), Backlight Stabilization	
Certifications and Standards		CE, UL, c-UL, FCC-B, RoHS, WEEE	
Warranty		Two years — all system components	

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