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RUGGED COTS

MODEL 4420R5C & 4420P4C - 20.1" COLOR FLAT PANEL DISPLAY

Specifically Designed for Severe Environments

Model 4420R5C



Model 4420P4C



PROVIDING THE HIGHEST QUALITY & PERFORMANCE AT ECONOMICAL PRICES

Features:

- **20.1" Color Active Matrix Liquid Crystal Display (AMLCD)**
- **Attractive Flush Rack Mount Design Fits Flush in a Standard 19" Rack (Projects only 0.75" from Mounting Rails) for 4420R5C**
- **Attractive Panel Mount for 4420P4C**
- **Convenient Front Controls**
- **Designed and Tested for MIL-S-901D, MIL-STD-167, MIL-STD-461D**
- **High Brightness with Full Range Dimming (Standard)**
- **Anti-Reflective Protective Viewing Window (Standard)**
- **Wide Viewing Angle ± 85° (All Directions)**
- **HD-15 (VGA) & 5-BNCs (for 4420R5C only) Input Video Connectors**
- **Auto Ranging Internal AC Power Supply**
- **High Resolution 1280 x 1024**

ISO9001:2000 KEMA CERTIFIED

Your partner in display technology.

AYDIN DISPLAYS, INC.

Aydin Displays' model 4420R5C & 4420P4C flat panel displays are designed for use in severe environments as encountered by the military. The 4420R5C & 4420P4C are designed to meet a wide variety of applications (shipboard, airborne, and ground mobile), which require a solid mechanical design to protect the display against shock, vibration, and temperature extremes. The model 4420R5C's salient features include: 15.75" (9U) high and is designed for flush mounting into a standard 19" RETMA rack enclosure. The model 4420P4C is for panel mounting in a console. Both models comply with MIL-S-901D, Grade A shock, MIL-STD-167 vibration, MIL-STD-461D for electromagnetic compatibility. The model 4420R5C serves as a direct replacement for 20" CRTs.

SPECIFICATIONS

Display:

Display Type:	20.1" TFT Active Matrix LCD
Active Display Area:	359 x 287 mm (14.135" x 11.308")
Pixel Pitch:	0.28 x 0.28 mm
Brightness:	200 cd/m^2 (Typical) 180 cd/m^2 (Typ. w/EMI faceplate) 160 cd/m^2 (Typ. w/Touch)
Viewing Angle:	± 85 ° All directions (Typical)
Contrast Ratio:	300:1 (Typical)
Response Time:	45 ms (Typical)
Display Colors:	16 Million
Synchronization Range:	Horizontal: 31.5 to 80 kHz Vertical: 56 to 75 Hz
Input Signal:	
Video:	Analog 0.7V p-p/75 Ohms
Sync:	Separate sync. TTL level Horizontal Sync Positive/Negative Vertical Sync Positive/Negative Composite Sync Positive/Negative Sync on Green (Video 0.7Vp-p and Sync 0.3Vp-p)
Input Interface:	HD-15 (VGA) & 5 BNCs
Video Input Impedance:	75 Ohms

Resolutions Supported:		
	640 x 480	@ 60-75 Hz
	720 x 400	@ 70 Hz
	800 x 600	@ 56-75 Hz
	832 x 624	@ 75 Hz
	1024 x 768	@ 60-75 Hz
	1152 x 900	@ 66 Hz
	1280 x 1024	@ 60-75 Hz
Native Resolution:	1280 x 1024	@ 60 Hz

User Controls:	
Display Controls:	Power, Brightness, Contrast, Horizontal Width, Horizontal Phase, Horizontal & Vertical Position

ENVIRONMENTAL

Temperature:	
Operating: (Sea Level)	0°C to 50°C, MIL-STD810E Method 501.3/502.3, Procedure II
Storage:	-30°C to +70°C, MIL-STD-810E, Method 501.3/502.3, Procedure I
Optional:	-40°C storage available
Humidity:	
Operating/Storage:	5 to 95% RH Non–condensing MIL-STD-810E, Method 507.3 Procedure 1
Altitude:	
Operating:	0 to 42,000 ft. above sea level
Storage:	0 to 54,000 ft. above sea level (MIL-STD-810E, Method 500.3)
Rapid Decompression:	RTCA/DO-160D, 8,000 ft ASL to 42,000 ft. ASL in 15 seconds, 42,000 ft. ASL to 25,000 ft. ASL in 5 minutes
Shock:	MIL-S-901D, Grade A, Class 1 Type A
Vibration:	MIL-STD-167-1, Type 1
Drip Proof:	MIL-STD-810E, Method 506.3 Procedure II, Front Panel only
Sand/Dust:	MIL-STD-810E, Method 510.3, Front Panel only
EMI:	MIL-STD-461D RE102, RS103, CE101*, CE102, CS101 (*4420R5C Only)
Power Requirements:	
Power Supply:	90-132/180-264 VAC Auto Ranging (+28 VDC Optional)
Frequency:	47-440 Hz
Power:	60 watts typical
Chassis Connector:	IEC 320
Cable Connector:	NEMA 5-15 P

Dimensions & Weight:	**Rack Mount (4420R5C)**	**Panel Mount (4420P4C)**
Height:	15.72" (9U)	18.00"
Width:	19.00"	21.25"
Depth:	3.95" *	4.50"
Weight:	24 Lbs.	37 Lbs. (with touch)

*From rear of panel to rear of connectors 5.02"

Compatibility:	PCs, Workstations, & X-Terminals
Options:	NTSC Input, Brightness & Contrast Enhancements, Sunlight Readable
Touch Screens:	Capacitive

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www.aydindisplays.com

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