

SAMTEL

RUGGEDISED LCD DISPLAY



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RSD series of ruggedised panels are specifically crafted to cope with adverse and demanding environmental conditions requiring extremely high levels of performance.

APPLICATIONS:

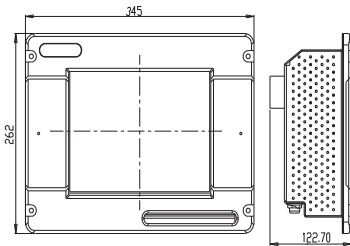
Navy, UAV, Radar, Command & Control, Air & Vessel Traffic Control, Ground Vehicles

KEY FEATURES:

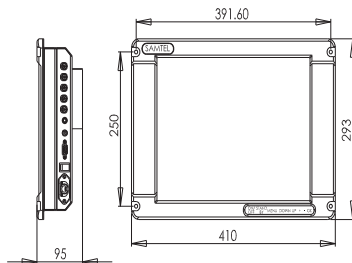
- MIL-tailored active matrix TFT LCD
- Improved flexibility for independent working
- High Brightness and Contrast ratio
- Anti-reflective coated glass
- Waterproof mounting
- Shock and vibration resistant packaging
- Long life product commitment (>10 years)
- Independent color control (RGB & Y)

OPTIONAL:

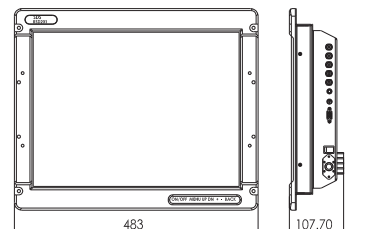
Touch screen, Desk/ rack mounted, Cabinet colors as per request, Dimming Ratio (1000:1)



RSD 104



RSD 150



RSD 201

TYPICAL SPECIFICATIONS

Electro Optical	RSD 104 – 10.4" RLCD	RSD 150 – 15.0" RLCD	RSD 201 – 20.1" RLCD
Panel Type	LCD Active Matrix (TFT)	LCD Active Matrix (TFT)	LCD Active Matrix (TFT)
Panel diagonal	10.4 inch / 26 cm	15 inch / 38 cm	20.1 inch / 51 cm
Pixel dimensions	0.330*0.330 mm (Stripe RGB)	0.297*0.297 mm (Stripe RGB)	0.255*0.255 mm (Stripe RGB)
Panel Resolution	640*480 pixels (VGA)	1024*768 pixels (XGA)	1600*1200 pixels (UXGA)
Image dimensions	211.2 * 158.4 mm	304.1 * 228.1 mm	401 * 322 mm
Screen colors	16 million / 256 grayscales per color	16 million / 256 grayscales per color	16 million / 256 grayscales per color
Protective front filter	Glass with High efficiency AR coating	Glass with High efficiency AR coating	Glass with High efficiency AR coating
Front filter transparency	>90%	>90%	>90%
Reflection	Specular:0.76%, Diffuse:1.72 %	Specular:0.76%, Diffuse:1.72 %	Specular:0.76%, Diffuse:1.72 %
Light output	250 cd/m2	250 cd/m2	220 cd/m2
Contrast ratio	> 250:1	> 350:1	> 300:1
Viewing Angle (CR>= 10)	-70 Deg. H to +70 Deg. H -40 Deg. V to +70 Deg. V	-70 Deg. H to +70 Deg.H -40 Deg. V to +70 Deg. V	-88 Deg. H to +88 Deg. H -88 Deg. V to +88 Deg. V
Color temperature	5600K	6500K	6500K
White non -uniformity	20%	20%	20%

Interfaces	RSD 104 – 10.4" RLCD	RSD 150 – 15.0" RLCD	RSD 201 – 20.1" RLCD
Signal input	0.3 MP, VGA input	0.8 MP, XGA input	1.9 MP, UXGA input
Auto sync	Separate H&V, YUV, RGsB, CVBS	Separate H&V, YUV, RGsB, CVBS	Separate H&V, YUV, RGsB, CVBS
Connector type	DB9 for RS 232, DB15 for analog RGB BNC for RGBHV, YUV, CVBS or SVH	DB9 for RS 232, DB15 for analog RGB BNC for RGBHV, YUV, CVBS or SVH	DB9 for RS 232, DB15 for analog RGB BNC for RGBHV, YUV, CVBS or SVH
Graphical OSD	Yes (Touch Screen – Optional)	Yes	Yes

Power		Mechanical	
Power supply	Automatic selection 115/220VAC	Dimensions	Suited to requirement
Frequency	45~60 Hz	Cabinet Color	As per requirement
Power consumption	20W maximum	Weight	RSD 104 – 6.6 kg approx. RSD 150 – 7.1 kg approx. RSD 201 – 9.8 kg approx.

Environmental	
Operating temp	0 ~ 50 deg C (-20 deg C optional)
Storage temp	0 ~ 50 deg C (-20 deg C optional)
Storage temp	-30 ~ 70 deg C
Humidity	85% max (non condensing)
Vibration	MIL-STD-167(0.35G, 10~100Hz, 1hr/axis, 3 axis)
Shock	MIL-STD-810E
Altitude	10000 ft (operational), 45000 ft (storage)
EMC	MIL-STD-461E

Parameters can be built to suit requirements. Technical Specifications are subject to change without notice.

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