

INDUSTRIAL SOLUTIONS



CONRAC 60xx SD MTM

wideECDIS MultiTask Monitors

20", 26" and 27" 16:10 format

LCD/TFT High Definition Ship Displays

CONRAC's 60xx SD MTM series of high resolution multi frequency LCD/TFT-displays for shipborne applications is supplied as rack/console mount versions or as chassis-only - designed for easy integration.

An entirely new generation of large screen monitors: Using superior HD (High Definition) panels the 60xx SD MultiTask monitors allow to display even more information on a single screen. The wide screen format gives the option to combine seacharts or radar with additional information.

CONRAC GmbH stands for High Performance Displays for specific applications. Own R&D, production and service at the German headquarters guarantee highest quality standards. The use of high grade industrial components, modular construction, robust aluminium casing and special laminated safety glass panel with high efficiency anti-glare treatment make the displays the perfect choice for 24h operation in demanding applications.

FEATURES

Designed to meet IEC 61174 (ECDIS), EN 60936-1 (Radar) and EN 60945 (Navigation) standards

Easy integration in Radar and ECDIS systems

Wide dimming range backlight converter for day & night application

Best legibility independent of the ambient lighting conditions

Conrac COS (Customised Operation System)

Adjustment of brightness automatically by the integrated intelligent ALC (Ambient Light Control), with hot keys or potentiometer control

Robust seawater resistant aluminium housing treated to protect from corrosion

Specially designed for use in shipboard applications

Universal proprietary controller

Flexible solutions (DVI, VGA, CVBS and S-Video inputs)

High contrast and flicker-free image

Reduced strain for the user's eyes

Enhanced shock & vibration resistance as well as extended temperature range

High lifetime in critical ambient conditions

Integrated counter for hours of operation

Easy to plan maintenance

Conrac electronics and design

In-house R&D ensures long term availability

NEW: PIP

Picture-In-Picture Function

DISPLAY

6020 SD MTM

Panel type:	Full colour active matrix TFT
Size / Active screen dimensions:	20.1" – 51cm / 433.44mm (horizontal) x 270.90mm (vertical)
Aspect ratio:	16:10
Resolution:	Multiscan up to 1680 x 1050
Horizontal frequency:	30 – 80kHz
Vertical frequency:	50 – 85Hz
Pixelclock:	Up to 165MHz
Brightness:	200 cd/m ² - 200mcd/m ²
Dimming range:	>1000:1
Contrast ratio:	800:1 typical
Number of colours:	16.7 Mio colours
Viewing angle:	178° horizontal and vertical
Power consumption:	< 100W
Lamp life time:	50,000 hours @ 25°C ambient temperature, continuous operation
PIP (Picture-In-Picture Function):	PC and video

6026 SD MTM

Panel type:	Full colour active matrix TFT
Size / Active screen dimensions:	26" – 66cm / 550.08mm (horizontal) x 343.8mm (vertical)
Aspect ratio:	16:10
Resolution:	Multiscan up to 1920 x 1200
Horizontal frequency:	30 – 80kHz
Vertical frequency:	50 – 85Hz
Pixelclock:	Up to 165MHz
Brightness:	200 cd/m ² - 200mcd/m ²
Dimming range:	>1000:1
Contrast ratio:	800:1 typical
Number of colours:	16.7 Mio colours
Viewing angle:	178° horizontal and vertical
Power consumption:	< 150W
Lamp life time:	50,000 hours @ 25°C ambient temperature, continuous operation
PIP (Picture-In-Picture Function):	PC and video

6027 SD MTM

Panel type:	Full colour active matrix TFT
Size / Active screen dimensions:	27" – 69cm / 581.76mm (horizontal) x 363.6mm (vertical)
Aspect ratio:	16:10
Resolution:	Multiscan up to 1920 x 1200
Horizontal frequency:	30 – 80kHz
Vertical frequency:	50 – 85Hz
Pixelclock:	Up to 165MHz
Brightness:	200 cd/m ² - 200mcd/m ²
Dimming range:	>1000:1
Contrast ratio:	1000:1 typical
Number of colours:	16.7 Mio colours
Viewing angle:	178° horizontal and vertical
Power consumption:	< 150W
Lamp life time:	50,000 hours @ 25°C ambient temperature, continuous operation
PIP (Picture-In-Picture Function):	PC and video

SIGNAL INPUT / CONNECTORS / SYNCHRONISATION

PC signal input:	PC analog, PC digital	
Connectors:	PC analog:	15 pin HD-Sub
	PC digital:	DVI-I
	Video:	S-Video/Chinch
	RS 232:	9 pin DSub connector
Synchronization:	Sync on green, Composite sync with auto detect Separate H- and V-sync	

CONTROLS

Hot-keys (rear of display)
On screen menu
RS 232 serial interface

ENVIRONMENTAL CONDITIONS

Temperature (operating):	-15°C - +55°C
Temperature (non-operating):	-20°C - +60°C
Vibration:	5Hz – 12Hz ± 1.6mm, 12.5Hz – 25Hz ± 0.38mm 25Hz – 50Hz ± 0.1mm
Shock:	10g, 11ms

POWER

Power supply:	85 - 264V, 45 - 65Hz, PFC (Power Factor Correction), power connector lockable
Stand-by function:	Yes

STANDARDS

EMI/EMC: *	EN55022 class A, EN55024, EN60945
Safety: *	EN60950, EN60945, CE
Vibration: *	EN60945
Ship Control: *	EN61174 (ECDIS), EN60945 (Navigation), EN60936-1 (Radar)

* designed to meet the above standards

SUPPLIED ACCESSORIES

AC power cord 2.5m
Operating Manual

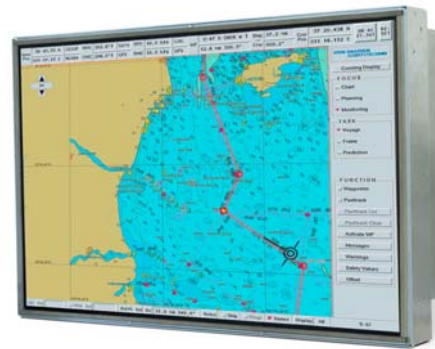


VERSIONS

60xx SD MTM Chassis-only version

Special versions for integration in consoles or own housings.

	Dimensions (H x W x D):	Weight (kg):
6020 SD MTM:	305.0 x 468.0 x 99.34 mm	9.1 kg \pm 10%
6026 SD MTM:	384.4 x 590.8 x 111.0 mm	10.0 kg \pm 10%
6027 SD MTM:	402.0 x 620.0 x 124.8 mm	10.0 kg \pm 10%



60xx SD MTM Rack Mount version

Available on request.

60xx SD MTM Bracket Mount version

Available on request.

OEM versions

Customized versions available on request.

OPTIONS*

*Please note: not all options may be combined

- 24V DC power supply operating from 18V to 32V
- Additional socket for power output
- Lockable power output
- Potentiometer for brightness control
- ALC (Ambient Light Control)
- High brightness version
- Safety glass with high efficiency anti-glare treatment



Technical specification subject to change without prior notice. GM 660.0086, is_60xxsdMTM_rev00

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