



CONRAC 6023 SD

23" LCD/TFT Ship Display

CONRAC's 6023 SD high resolution multi frequency LCD/TFT display for shipborne applications is supplied in rack/console mount and chassis-only versions.

The use of high grade industrial components, modular construction, robust aluminium casing and special laminated safety glass panel with high efficiency anti-glare treatment ensures reliable around the clock operation in demanding shipborne applications.

FEATURES

Approved to IEC 61174 (ECDIS), EN 60936-1 (Radar) and EN 60945 (Navigation)

Easy integration in Radar and ECDIS systems

Wide dimming range backlight converter for day & night application

Potentiometer control of brightness for ease of operation

Robust seawater resistant aluminium housing treated to protect from corrosion

Specially designed for use in shipboard applications

Universal proprietary controller

Flexible video input solutions

High contrast and flicker-free image

Reduced eye strain

Enhanced shock & vibration resistance as well as extended temperature range

Reliable operation under harsh ambient conditions

Integrated counter for hours of operation

Easy to plan maintenance

Conrac electronics and design

Long term availability

DISPLAY

| | |
|----------------------------------|--|
| Panel type: | Full color active matrix TFT |
| Size / Active screen dimensions: | 23.1" – 58cm / 470mm (horizontal) x 352mm (vertical) |
| Resolution: | Multiscan up to 1600 x 1200 (UXGA) |
| Horizontal frequency: | 30 – 80kHz |
| Vertical frequency: | 50 – 85Hz |
| Pixelclock: | Up to 165MHz |
| Brightness (dynamic range): | Brightness: <80 mcd/m ² - > 200 cd/m ² (typical) Filter glass: 90% light transmission (typical) |
| Dimming range: | >2000:1 |
| Contrast ratio: | 500:1 typical |
| Number of colors: | 16.7 Million colors |
| Viewing angle: | ±85° horizontal and vertical |
| Backlight: | Cold cathode fluorescent lamp (CCFL) |
| Lamp life time: | 50,000 hours @ 25°C ambient temperature, continuous operation |

SIGNAL INPUT / CONNECTORS / SYNCRONIZATION

| | |
|------------------|--|
| PC signal input: | PC analog |
| Connectors: | RGB (PC) input: 15 pin HD-Sub, 5 x BNC RS 232: 9 pin DSub connector |
| Synchronization: | Sync on green, Composite sync with auto detect Separate H- and V-sync |

CONTROLS

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|--------------------------------|
| Keypad and on screen menu |
| Potmeter control of brightness |

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: | 115V / 230V ±10%, automatic selection, power connector lockable, additional socket for power output |
| Power consumption: | <80W |
| Stand-by function: | Yes |

APPROVALS

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

SUPPLIED ACCESSORIES

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|----------------------------------|
| VGA cable 2m, AC power cord 2.5m |
| Operating Manual |

STANDARD COLOR

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|-----------------------------|-----------------------|
| Standard color front panel: | RAL 9005 (deep black) |
|-----------------------------|-----------------------|

VERSIONS

6023 SD Rack Mount version

Rack/console mount configuration with IP65 front.
Integrated beeper and lockable power input and output.

H x W x D: 533mm x 584mm x 98mm (21in x 23in x 3.9in)
Weight: 15.5kg (34 lbs)



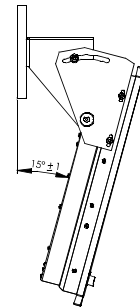
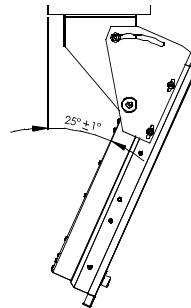
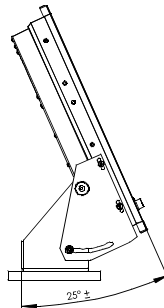
6023 SD Bracket Mount version

Rack version with brackets for various mounting solutions.

Table mounted

Ceiling mounted

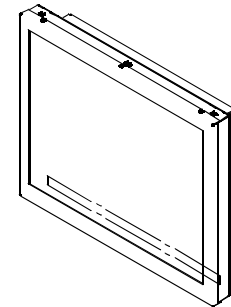
Wall mounted



6023 SD Chassis-only (Naked) version

Special version for integration in consoles or customer supplied housings.

H x W x D: 438.2mm x 538.8mm x 107.03mm (17.3in x 21.2in x 4.2in)
Weight: 16.5kg (36 lbs)



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
Video signal input 15.7kHz CVBS / Y/C video

Technical specification subject to change without prior notice. GM 260.0260, 6023sd_rev07 (050708)

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