



## CONRAC 6019 SD

19" LCD/TFT Ship Display

CONRAC's 6019 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 make these displays the perfect choice for 24 hour operation in demanding 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 analog TFT
Size / Active screen dimensions:	19.0" – 48cm / 376mm (horizontal) x 301mm (vertical)
Resolution:	Multiscan up to 1280 x 1024 (SXGA)
Horizontal frequency:	30 – 80kHz
Vertical frequency:	50 – 85Hz
Pixelclock:	Up to 140MHz
Brightness (dynamic range):	Brightness: <80 mcd/m <sup>2</sup> - > 200 cd/m <sup>2</sup> (typical) Filter glass: 95% light transmission (typical)
Dimming range:	>2000:1
Contrast ratio:	700:1 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**

Keypad and on screen menu  
Potentiometer 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:	70W
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**

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

**STANDARD COLOR**

Standard color cabinet/front panel: RAL 9005 (deep black)

**VERSIONS****6019 SD Rack Mount version**

Rack/console mount configuration (10U) with IP65 front.  
Integrated beeper and lockable power input and output.

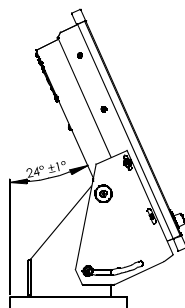
H x W x D: 444mm x 483mm x 98mm (17.5in x 19.0in x 3.9in)  
Weight: 10.5kg (23 lbs)

**6019 SD Bracket Mount version**

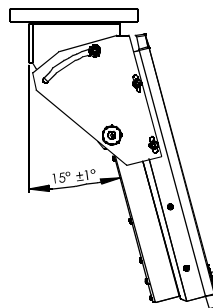
Rack version with brackets for various mounting solutions.



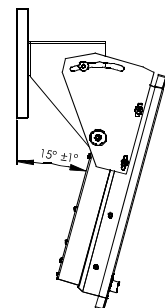
Table mounted



Ceiling mounted

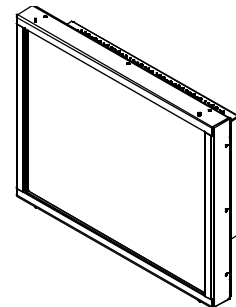


Wall mounted

**6019 SD Chassis-only (Naked)**

Special version for integration in consoles or own housings.

H x W x D: 340mm x 422mm x 95.6mm (13.4in x 16.6in x 3.8in)  
Weight: 7kg (15.4 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 260.0259, 6019sd\_rev07 (050708)

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