

PRELIMINARY SPECIFICATION



CONRAC 6020 AD 20" TFT Automotive Display

CONRAC's 6020 AD high resolution multi frequency automotive TFT-displays is supplied in rack/console mount version, specially designed for mobile applications.

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

Approved to the relevant standards for mobile applications

Easy integration in your system.

Robust seawater resistant aluminium housing treated to protect from corrosion

Specially designed for use in mobile applications.

Climate control circuit, display heating

High system availability.

Laminated safety glass with high efficiency anti-glare treatment

Superior legibility and safety, reduced EMI.

Universal proprietary controller

Flexible solutions (VGA, CVBS and S-Video inputs), extra wide frequency range (30kHz – 85kHz).

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 proprietary electronics and design

Own R&D ensures long term availability.

TECHNICAL DATA**6020 AD****DISPLAY**

Panel type:	Full colour active matrix TFT
Size / Active screen dimensions:	20" – 51cm / 408mm (horizontal) x 306mm (vertical)
Resolution:	Multiscan up to 1600 x 1200 (UXGA)
Horizontal frequency:	30 – 81kHz
Vertical frequency:	50 – 85Hz
Pixelclock:	Up to 170MHz
Brightness:	300 cd/m ² typ. without glass panel
Contrast ratio:	600 :1 typical
Number of colours:	16.7 Mio colours
Viewing angle:	±80° horizontal and vertical
Backlight:	Cold cathode fluorescent lamp (CCFL)
Lamp life time:	50.000 hours @25°C ambient temperature, continuous operation

SIGNAL INPUT / CONNECTORS / SYNCRONISATION

PC signal input:	PC analog
Connectors:	RGB (PC) input: 5 x BNC Serial connector: 9 Pin for RS 232
Synchronization:	Sync on green, Composite sync with auto detect Separate H- and V-sync

CONTROLS

	Via keypad and on screen menu RS 232 serial link with BITE output
BITE (Build-In Test Equipment):	Front panel indication of voltage, temperature and operational status

ENVIRONMENTAL CONDITIONS

Temperature (operating):	0°C - +55°C
Temperature (non-operating):	-40°C - +70°C
Vibration:	2.5g, 1Hz – 50Hz
Shock:	30g, 11ms, half sine
Climate control:	Climate control circuit with overheat indicator on front panel

POWER

Power supply:	115V / 230V ±10%, automatic selection
Power consumption:	100W, <15W in sleep mode, 280W with heating system

APPROVALS

EMI/EMC:	EN55022 class A, EN55024, special standards on request
Safety:	EN60950, CE

SUPPLIED ACCESSORIES

	VGA cable (BNC) 2m, AC power cord 2,5m Operating Manual (English, German)
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STANDARD COLOUR

Standard colour front panel:	RAL 9005 (deep black), non-structured
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VERSIONS

6020 AD Rack Mount version

19" Rack/console mount configuration with IP65 front.

H x W x D: 400mm x 483mm x 120mm
Weight: 14kg



OEM versions

Customized versions available on request.

OPTIONS

24V DC power supply operating from 18V to 32V
Heating system for extended temperature range (-25°C - +55°C) 2 min. useable, 20 min. according to specification
Wide dimming range backlight converter
Active decay compensation
Video signal input 15.7kHz CVBS / Y/C video
Customized power and signal connectors
RS 232 control interface

* Please note: Not all options may be combined.

Technical specification subject to change without prior notice. GM 260.0263, Rev. 02 , 6020AD.doc

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