

MARINE DISPLAYS & PANEL COMPUTERS



eVECO
Green approach. We care.



eTEC
CONRAC Technology
Makes your display last longer.

Innovation. Experience. Flexibility. Quality.

WIDESCREEN MARINE DISPLAYS & PANEL COMPUTERS FOR COMMERCIAL, CRUISE & YACHT, NAVAL & DEFENSE APPLICATIONS



wideECDIS® Marine Displays LCD/TFT Displays / 16:10 Format

DISPLAY SOLUTION

With the highly innovative wideECDIS® series of Marine Monitors CONRAC introduces an entirely new generation of highly engineered wide screen Marine Grade LCD/TFT Displays specifically designed to withstand the harsh maritime environment.

The wideECDIS® series meets the stringent demands of the international standards for Maritime Navigation and Radio Communications Equipment & Systems and ECDIS (Electronic Chart Display Information System).

The new 16:10 wide screen format allows to dramatically increase the amount of information displayed which is important for compliance with the new Radar standard.

The superior picture performance of the wideECDIS® monitors is achieved with high performance full HD (High Definition) panels in combination with CONRAC's latest state-of-the-art electronics. Used for ECDIS, Radar, ARPA (Automatic Radar Plotting Aid) or ship control, the displays provide outstanding image quality.



wideECDIS Marine Displays

Widescreen Marine Panel Computers LCD/TFT Displays / 16:10 Format

INTEGRATED SOLUTION

CONRAC continues to set the benchmark and introduces the first widescreen Marine Panel Computers. Very experienced in the integration of industrial PCs, CONRAC designed the ultimate Marine Panel Computer specified to run all marine applications, from automation and control to ECDIS and Navigation.

The integrated high performance industrial PC is based on the latest low-power embedded technology. It does not only secure lowest power consumption, it also guarantees optimum performance and reliability.

As a special feature, CONRAC integrated a proprietary system monitoring application called SysMon which supervises the system. It controls various settings and the backlights and obtains exact information on a multitude of parameters.



WORLD DEBUT

First widescreen Marine Panel Computers

Offering the same look and feel, the only eye-catching difference between the integrated solution and the monitor-only version are the two front USBs.

Both configurations versions, Marine Display and Marine Panel Computer, are supplied as console mount version allowing different mountings and easy integration in customised housings or consoles. For details on the display types, sizes and configurations please refer to the Technical Datasheet.

Applications

MARINE DISPLAY SOLUTIONS

- Radar
- ECDIS
- Navigation
- Automation & Control

Features

Designed and engineered for 24/7/365 operation

Maximum reliability and durability

Wide dimming range

Perfect image performance by day and night
Fully dimmable for night vision capability

Contrast enhancing safety glass

High efficiency anti-glare treatment for superior image contrast
Maximised safety and display protection

Corrosion protection

Robust seawater resistant aluminium housings treated to protect from corrosion

Extended temperature range

Climate control and display heating for operation under extreme temperatures

Shock and vibration resistance

Stable operation and long lifetime under critical ambient conditions

Special operating concept

CONRAC COS (Customised Operating System)
Adjustment of brightness alternatively with potentiometer, hot keys or the integrated intelligent ALC (Ambient Light Control)

Approvals

Approved/built to meet IEC 61174 (ECDIS), EN 62388 (Radar), EN 60945 (Navigation), E10 (IACS).
Type approved by various classification organisations, e.g. GL, ABS, ...

Integrated counter for operating hours

UXGA board with customized input board

CONRAC proprietary electronics and design

Long-term service and support



River radar solution



Kelvin Hughes



SAM Electronics



Alewijnse



Raytheon



cTEC features for Marine Displays CONRAC TECHNOLOGY

Considering the very special requirements of marine applications, several vital functions have been developed. Implemented in the Ship Display series, they guarantee trouble-free operation and prolong the product lifetime, contributing to a reduced cost of ownership.

cHBL

Homogeneous Brightness Level

Dimming of standard TFT widescreen displays does result in uneven brightness performance. Especially during night operation this effect is distracting and unacceptable for navigation equipment. CONRAC developed a special panel enhancement feature which guarantees an even brightness level over the entire screen.

cDBI

Dynamic Backlight Inverter

Due to the high photosensitivity of the human eye in darkness it is evident that the brightness set-up needs to be adjusted accordingly. Standard dimming does not allow continuously adjustable brightness. CONRAC realizes this requirement with its dynamic logarithm backlight inverter.

This component enables the adjustment of even the smallest brightness nuances for night time application and avoids the annoying dazzling effect of standard screens.

cHCD

High Contrast Dimming

Standard dimming does not only reduce the brightness of the panel, it also reduces the contrast. As a consequence, the image shows a reduced contrast level and colour deviations in dimmed mode. To avoid this negative effect, CONRAC implemented high contrast dimming functions, allowing dimming at the full contrast level guaranteeing outstanding picture performance during night time operation.

cDRP

Digital Remote Protocol

cDRP allows full remote control of the monitor using the DDC channel of the DVI-input. Brightness, ECDIS activation, change of input signal, PIP (Picture-in-Picture) and other adjustments can now be remote controlled. Of course, cDRP supports easy activation of ECDIS. It also facilitates to obtain data for preventive maintenance, e.g. status information like temperature, operating time, backlight data, brightness values, firmware information to name just a few. Additional cabling between Monitor and PC, required when using RS232, is no longer required, which also contributes to keep the costs down.

cABS

Automatic Brightness Stabilization

cABS, Automatic Brightness Stabilisation, is a key feature when using several screens next to each other, ensuring a uniform image brightness on all screens. The brightness is analysed by the advanced display electronics, which even takes the backlight ageing into considerations and readjusts accordingly. Especially in IBS applications using multiple screens, this feature allows a homogenous impression which reduces the operators' stress.

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