

LARGE SCREEN MARINE / AUTOMOTIVE DISPLAYS & PANEL COMPUTERS



Innovation. Experience. Flexibility. Quality.

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LCD/TFT Displays / widescreen Format RUGGED DESIGN

Active in the research and development of special display solutions for decades, CONRAC has established a reputation as leading manufacturer of large screen solutions for extremely harsh maritime and other mobile environments.

Special mounting solutions enable CONRAC's large screen automotive products to withstand excessive shock and vibration and ensure stable operation. Depending on the display size and application, various different mounting options are used.

CONRAC's series of large screen Naval and Automotive Displays uses full HD (High Definition) panels. The widescreen displays are ideally suited for the display of electronic charts, tactical situation reports and automation control information.

Configurations

- Naval / Automotive Display Solution (monitor-only configuration)
- Naval / Automotive Panel Computer (with integrated industrial PC)

Supplied as Cabinet version with metal housing.

For details on the display types, sizes and configurations please refer to the Technical Datasheet.



Large screen Automotive Display with shock-frame

Customisation

Always on the technological forefront CONRAC develops and manufactures custom-tailored display solutions. A multitude of mechanical and electronic configurations is available, e.g. monitor-only versions, integrated IPCs, integrated touch screens, etc.

Of course, customised designs, e.g. with different surface finishes, different display sizes and different configurations and options can be realised.

Basic products as per Technical Datasheet.

Options

- Touch screens (different touch technologies: resistive, acoustic, infrared)
- Shock absorbers
- Different mounting devices



Large screen Automotive Display



Aircraft Carrier Cavour



Applications

MOBILE USE

- Navy command and control systems
- Fire control consoles
- wideECDIS and Radar
- Naval automation and control
- Mobile use in vehicles and shelters
- Simulation



OPZ Corvette Braunschweig

Features

Designed and engineered for 24/7/365 operation

Maximum reliability and durability

Laminated & contrast enhancing safety glass

Maximised safety and display protection as well as superior image contrast due to efficient anti-glare treatment

Robust fire-retardant aluminium housings with powder coating

Ensures longevity even in the most demanding applications

Designed for reliable operation in landscape and portrait mode applications

Utmost flexibility and adaption to requirements

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 and highest system availability

Wide dimming range backlight inverter

Approvals

Approved to the relevant standards for mobile applications. Further approvals based on project requirements on request

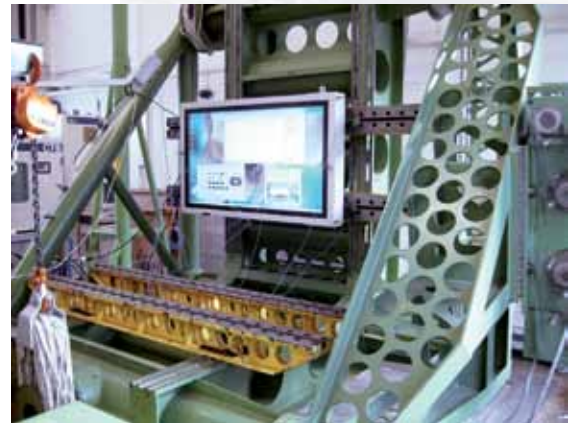
Modular design

Guarantees high overall system availability and easy maintenance

CONRAC proprietary electronics and design

In-house R&D ensures long-term availability

Long-term service and support



Shock and vibration test



Frigate F124



cTEC features for Marine / Automotive Large Screen Displays CONRAC TECHNOLOGY

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

cALC

Ambient Light Control

Automatic adjustment of the brightness depending on surrounding light conditions, maximises the image quality, prolongs display lifetime while minimising power consumption.

cBWE

Black and White Expansion

Optimises the display of very small details. Particularly in dark areas, even the smallest details - not visible on conventional displays - can be displayed generating an extremely brilliant and high-contrast image.

cCOOL

Innovative Cooling System

The intelligent cooling system works in two cycles, an open loop and a closed loop. Despite the Public Displays' laminated safety glass panel, it cools the TFT panel from front and back. Depending on the display size and its power consumption, one, two or more air ventilation ducts can be integrated. Furthermore, a special sealing method avoids dust accumulation inside the display. The cooling system is very energy efficient and maintenance-free, reducing the cost of ownership.

cDCC

Dynamic Contrast Control

A very complex technique allows incessant correction of both the backlight brightness and contrast of the TFT cells, resulting in a natural, very high-contrast image. Additionally, this results in a reduced power consumption.

cDNC

Dynamic Noise Control

Intelligent algorithms suppress the „noise“ typical for analog signals, while optimising image performance.

cDPR

Dynamic Pixel Refreshing

A special system driving the TFT cells avoids image sticking and increases display lifetime considerably.

cPXS

Pixel Shifting

Continuous shifting of the entire image in different directions prevents image sticking. At normal viewing distance, this is almost not visible. If required by the application, the shifting area can be adjusted manually.

cSPM

Soft Picture Mode

An intelligent scaling mechanism smoothes out extreme contrast transitions. This process avoids the so called boundary line image sticking, which occurs at „sharp“ transitions (e.g. black to white). If required, the degree of „softening“ can be adjusted manually.

cTCS

Temperature Control System

Active temperature control, monitors the heat level and controls the fans.

cTMM

True Movie Mode

True Movie Mode uses special algorithms allowing film reproduction (DVDs) in amazing quality. This applies not only to commercial standard definition DVD material, but also to DVD films in HD 1080i (e.g. Blu-Ray).



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