DuraVision **FDS1904**



Product Website

The FDS1904 was developed for ECDIS and radar systems. It has impressive optimal legibility when used on the bridge. It satisfies the requirements in terms of temperature, air humidity and vibration set out in the international standard for navigation and radio communication devices for shipping (IEC 60945).

- Wide Dimming Range with very low Brightness
- ECDIS Calibrated Colours
- Clear View and Wide Viewing Angles
- Approval from Classification Societies
- Durable and Reliable, Long-Lasting LED Backlight
- 24/7 Use, 3 Years Warranty

Image quality
Precise, high-contrast, bright and crisp screen

Calibrated for ECDIS

Backlight brightness, gamma, and RGB color settings are calibrated at the factory so the monitor achieves accurate color reproduction for meeting the highly specialized requirements of ECDIS systems. The monitor meets IEC 61174, IEC 62288, and IEC 62388 international standards for ECDIS systems and radar applications.



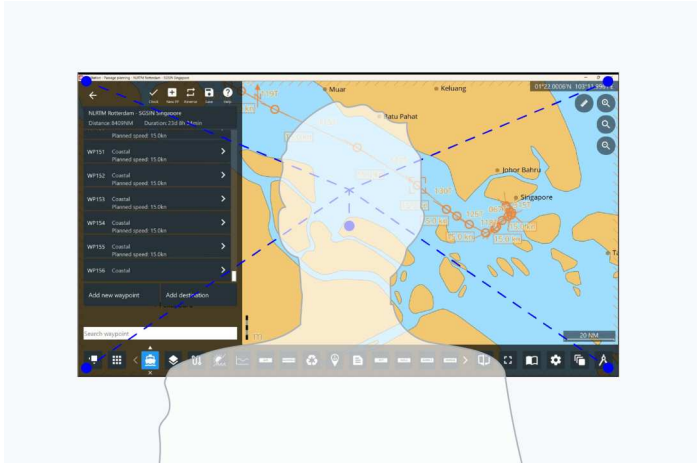
Large dimming range for changing light conditions

Suitable for day and night operation: Thanks to the wide dimming range from 0.05 cd/m^2 to 590 cd/m^2, the monitor is ideally suited to changing light conditions. This means that the brightness of the monitor can be optimally configured for all ambient lighting and can be used without problems even in dark rooms.



High contrast and color accuracy from all angles of view

The VA panel with wide viewing angle ensures that the contrast hardly falls when viewing the screen from any angle and there are only minimal differences in color. This means that exact color rendering and clear images can be achieved even in the corners of the screen.



FOR THE SAKE OF THE EYES

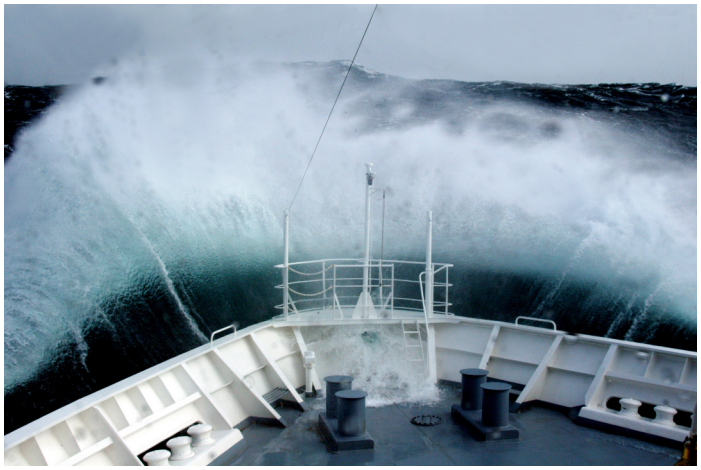
Flicker free

The monitor is flicker-free at every brightness setting. This is great for users, as their eyes will not tire as quickly, allowing them to work in front of the screen for longer periods of time without fatigue.

Durability
And reliability

Reliable on the high seas

Heat, cold, vibration – the monitor is able to withstand the permanent strains of the maritime environment. It fulfills the IEC 60945 device standard for the fields of the environment and electromagnetic compatibility required for the licensing of maritime equipment. It also boasts an IP65 rating, and is even protected against dust and hose water getting into it. Other properties: A special coating protects the electronics from moisture. And the ventilator of the monitor can be accessed easily for a simple replacement.



Maritime Classifications

The monitor is approved and certified by major maritime classifications, such as DNV (Germany / Norway), LR (UK), ABS (USA), NK (Japan), and EU RO MR to meet IMO (International Maritime Organization) regulations.



DURABLE THANKS TO HIGH-END QUALITY

Three-year warranty

EIZO grants a three-year warranty. This is possible thanks to the highly developed production process based on a simple principle of success: sophisticated and innovative technology, made from high-end materials.



24/7 use

The FDS1904 is built for 24-hour use and is characterised by maximum reliability.



TECHNOLOGY WITH CONFIDENCE

TAA and NDAA Compliance

Products in the security and technology sector must not originate from high-risk regions nor include restricted surveillance or telecommunications technologies linked to security concerns. The DuraVision FDS1904 is manufactured in Japan and is fully compliant with U.S. TAA (Trade Agreements Act) and NDAA* (National Defense Authorization Act) requirements.

*NDAA 2019 compliant, section 889.

Sustainability

Environmentally and socially conscious production

RESOURCE AND CLIMATE FRIENDLY

Sustainable and durable

The FDS1904 is designed to have a long service life and normally outlasts the warranty period by some distance. Replacement parts are available many years after production has ceased. The entire lifecycle takes into account the impact on the environment as the longevity of the product and the fact it can be repaired saves resources and protects the environment. When designing the FDS1904, we took a minimalistic approach to our resources by using high-quality components and materials, as well as a careful production process.

FAIR CONDITIONS

Socially responsible production

The FDS1904 is produced in a socially responsible way. It is free of child labour and forced labour. Suppliers along the supply chain have been carefully selected and they have also committed themselves to produce in a socially responsible way. This applies in particular to conflict minerals. We present a detailed report about our social responsibility annually and voluntarily.

CERTIFIED AND TRANSPARENT

Environmentally conscious production

Each FDS1904 is manufactured in our own factory, which implements an environmental and energy management system in accordance with ISO 14001 und ISO 50001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behavior among employees. We publicly report on these measures on an annual basis.



SUSTAINABLE DEVELOPMENT GOALS

Our Contribution to SDGs

As part of its sustainability initiatives, EIZO is contributing towards the United Nations' Sustainable Development Goals (SDGs).

Learn more about EIZO's sustainability initiatives here.

Industry, Innovation, and Infrastructure

DuraVision products offer a range of visual solutions for facilities that are essential to people's daily lives, such as hospitals, businesses, airports, factories, public transportation hubs, and many more. We continue to support safety, industrial, and other activities with robust product design, manufacturer's warranty, and customer services.

Environmentally conscious

Our products for industrial environments are designed to increase energy efficiency in order to reduce power consumption and greenhouse gas emissions, while ensuring the high performance and functionality that users in every industry require. We also rely on a responsible recycling system.

Learn more.



Technical Data

GENERAL

Item no.	FDS1904
Case color	Black
Areas of application	Industry
Product line	DuraVision
Areas of application	Maritime

SCREEN

Screen size [in inches]	19
Screen size [in cm]	48
Format	5:4
Viewable image size (width x height) [in mm]	376 x 301
Ideal and recommended resolution	1280 x 1024
Pixel pitch [in mm]	0,29 x 0,29
Panel technology	VA
Max. viewing angle horizontal [in °]	178
Max. viewing angle vertical [in °]	178
Number of colors or greyscale	16.7 million colors (D-Sub, 8 Bit), 16.7 million colors (DVI, 8 Bit)
Max. brightness (typical) [in cd/m²]	590
Max. dark room contrast (typical)	2000:1
Response time black/white/black change (typical)	10/10
Backlight	LED

FEATURES & OPERATION

Preset color/greyscale modes	1x manual memory location, Day, Night, Dusk
24/7 operation	✓
On-screen menu languages	en
Adjustment options	Signal information, Color Mode, Brightness, Contrast, Color temperature/White point, Gamma, Colour tone, Color saturation, Alignment, Backlight Off Mode, ECDIS Indicator, Power Indicator, Signal input, Key lock
Integrated power unit	✓

CONNECTIONS

Signal inputs	DVI-D (HDCP 1.4), D-Sub
Graphic signal	DVI Single Link (TMDS), RGB Analog
Sync formats	Separate, Composite

SOFTWARE & ACCESSORIES

Accessories	MDS-T191 (Stand for 19-inch Maritime Monitors)

ELECTRICAL DATA

Frequency	DVI-D: 31-64 kHz/59-61 Hz; Dsub: 31-80 kHz/56-76 Hz
Maximum Power Consumption [in watts]	64
Power consumption with power switch off [in watts]	0
Power supply	AC: Rating AC 100 - 240 V (Operating: AC 85-264 V), 50/60 Hz, 0,65 A (AC 100 V) / 0,3 A (AC 200 V); DC: Rating DC+24 V (Operating: +30 % / -10 %), 2,7 A (DC 24 V)
Power Management	✓

DIMENSIONS & WEIGHT

Dimensions (without stand) (width x height x depth) [in mm]	429 x 406 x 75
Weight (without stand) [in kg]	5.9
Dimension drawing (PDF)	Dimension drawing (PDF)
2D CAD data (DXF)	Download 2D CAD data (DXF)
Hole spacing	100 x 100

CERTIFICATION & STANDARDS

IP rating/protection class	IP65 (rear IP22)
Operating temperature	-15 - 55 °C / 10 - 90 % (R.H., non condensing)
Compass Safe Distance	Standard compass: 0,95 m, Steering compass: 0,6 m
Certification	Ship Classification: DNV (Norway), NK (Japan), LR (UK), ABS (USA), CE, CB, RoHS, WEEE, China RoHS, IEC60945, IEC61174, IEC62288, KC (K60950-1,K00022, K00024)

WARRANTY

Warranty periode	3 years

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