



# FDS1904

## Your advantages

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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

## Features

### Approved by classification companies

The monitor fulfills the requirements of the following classification companies: GL (Germany), BV (France), LR (UK), DNV (Norway), ABS (USA), ClassNK (Japan), KR (Korea) and CCS (China).

### Large viewing angle thanks to VA technology

The VA panel offers a high contrast ratio and a very large viewing angle on the image. The contrast and colours of the image remain the same from almost every viewing angle. The anti-reflection coating also reduces annoying reflections, even when looking at the monitor from the side.

### Flicker-free images

The monitor is fitted with LED backlighting to control brightness and prevent flickering. This places far less strain on the eyes when the screen is being observed for extended periods of time.

### 24/7 use guaranteed

The monitor is built for 24-hour use and is impressively reliable. That is why EIZO gives a 3 years warranty.

### 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.



### High colour accuracy for ECDIS

The monitor's gamma, brightness, and RGB colour space are calibrated in the factory. The colour rendering and display precisely fulfills the specifications of the ECDIS system and RADAR application in accordance with the IEC 61174, IEC 62288, and IEC 62388 standards.



### Large dimming range for changing light conditions

Suitable for day and night operation: Thanks to the wide dimming range from less than 1 cd/m<sup>2</sup> to 590 cd/m<sup>2</sup>, 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.



# Specification

## General

|                      |                             |
|----------------------|-----------------------------|
| Item no.             | FDS1904                     |
| Case colors          | Black                       |
| Areas of application | Industry                    |
| Product line         | DuraVision                  |
| Variants             | FDS1904T (Touchscreen: yes) |

## Display

|   |   |
|---|---|
| Screen size [in inches]                               | 19  |
| Screen size [in cm]                                   | 48  |
| Visible size diagonal [mm]                            | 481   |
| Format  | 5:4   |
| Viewable image size (width x height)                  | 376 x 3   |
| Ideal and recommended resolution                      | 1280 x 1024   |
| Pixel pitch [mm]                                      | 0.29 x 0.29   |
| Panel technology                                      | VA  |
| Max. viewing angle horizontal                         | 178 °   |
| Max. viewing angle vertical                           | 178 °   |
| Number of colours or greyscale                        | 16.7 million colours (DVI, 8 Bit), 16.7 million colours (Dsub, 8 Bit) |
| Max. brightness (typical) [in cd/m <sup>2</sup> ]     | 590   |
| Max. dark room contrast (typical)                     | 2000:1  |
| Typical response time [black/white/black alternation] | 10 ms / 10 ms   |
| Backlight   | LED   |

## Features & control

|                               |   |
|-------------------------------|---|
| Preset colour/greyscale modes | Day, Dusk, Night, 1x free mode for user selection   |
| OSD language                  | en  |
| Adjustment options            | Brightness, Contrast, Gamma, All EcoView functions, Colour saturation, Colour temperature, Colour Mode, Colour tone, Signal input, Reset, All reset, Key lock, DDC/CI, Backlight off mode, Alignment, ECDIS indicator, Power indicator, Signal info |
| Integrated power unit         | ✓   |

## Ports

|               |                        |
|---------------|------------------------|
| Signal inputs | DVI-D, Dsub            |
| Video signal  | DVI (TMDS), RGB Analog |

## Electric data

|                                     |  |
|-------------------------------------|--|
| Maximum Power Consumption [in watt] | 64   |
| 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 & weights

|                                     |                            |
|-------------------------------------|----------------------------|
| Dimensions without stand [mm]       | 429 x 406 x 75             |
| Weight without stand [in kilograms] | 5.9                        |
| Hole spacing                        | VESA standard 100 x 100 mm |

## Certification & standards

|                       |  |
|-----------------------|--|
| IP rating             | IP65 (rear IP22)   |
| Compass Safe Distance | Standard compass: 0,95 m, Steering compass: 0,6 m  |
| Certification         | Ship Classification: LR (UK), NK (Japan), ABS (USA), DNV (Norway), CB, CE, RoHS, WEEE, China RoHS, IEC60945, IEC62288, IEC61174, KC (K60950-1, K00022, K00024) |

## Software & accessories

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

## Warranty

|                      |         |
|----------------------|---------|
| Warranty and service | 3 years |
|----------------------|---------|