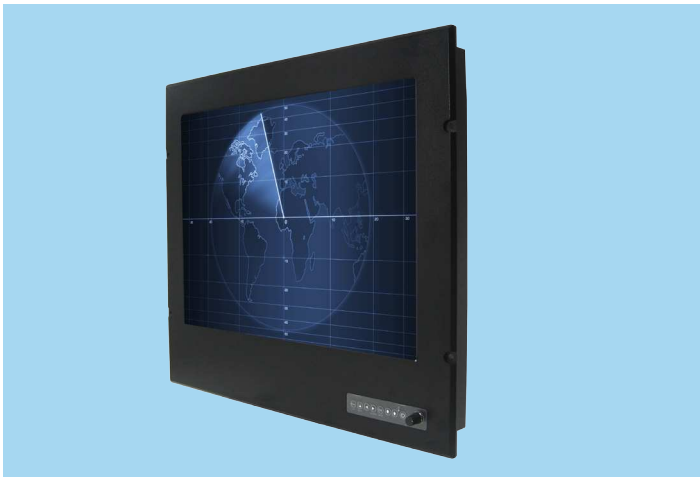


# DNVMR19L300-A1-5RT

**19" color TFT, 1280 x 1024 SXGA, COTS Rugged Marine Display Monitors Compliant with IEC 60945, DNV 2.4, and IACS-E10 Standards**



## Introduction

AIS 19" COTS rugged Marine display monitors are specifically designed to operate and withstand the maritime environment; and suitable for bridge control display, navigation, monitoring and ship automation applications. These Marine grade displays comply with Marine equipment standards to meet the demands of IEC 60945, DNV 2.4, and IACS-E10, needed to withstand the harsh maritime environment requiring low EMI or long-term vibration resilience. These rugged Marine monitors protect against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion.

## Specifications

| Display                     |   |
|-----------------------------|---|
| Display                     | 19" diagonal, Active matrix TFT LCD<br>Optional features:<br>3mm Anti-reflective Protection Glass<br>Transflective Liquid Crystal Display |
| Aspect Ratio                | 4:3   |
| Active/Area                 | 376.32 (H) x 301.06 (V) mm  |
| Native (Optimal) Resolution | 1280 x 1024   |
| Colors                      | 16.7M (8 bits + FRC)  |
| Brightness (Typical)        | LCD Panel: 400 nits<br>Resistive Touch: 320 nits  |
| Contrast Ratio              | 1000:1  |
| Viewing Angle               | Horizontal: 170° Total<br>Vertical: 160° Total  |
| Touch Technology            | Resistive (RS232: Touch Interface)  |
| Composite Video             | RCA Phono Plug  |
| S-Video Signal              | S-Video (SVHS) Plug   |
| DVI-D Signal                | DVI-D   |

## Features and Benefits

- Maritime Environment Standard: Tested to DNV standard methodology for a range of extreme conditions including temperature, humidity, vibration, EMC compatibility and enclosures.
- Environmental ratings for enclosures based on NEMA 4, 4X, IP65, IP67 type designations: To provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion.

| Environmental Conditions  |   |
|---------------------------|---|
| Temperature               | Operating: -10°C to 55°C (14°F to 131°F) (-20°C to 60°C with optional heating)                  |
| Humidity (Non-condensing) | 5% to 95%   |
| Ingress Protection        | NEMA4 IP65 IEC 60529  |
| Vibration Protection      | 5Hz~500Hz / 1Grms / 3 Axis  |
| Shock Protection          | 15G,11ms duration   |
| Dimension (W x H x D)     | 483 x 444 x 75.2 mm   |
| Weight                    | 7.9 kg  |
| General                   |   |
| MTBF                      | 50,000 Hours Demonstrated   |
| Mounting Options          | 100 x 100 mm VESA Mount<br>Optional feature:<br>One robust mounting bracket with locking handle |
| Approvals                 |   |
| Approvals                 | CE, FCC (DOC), DNV standards IEC 60945, DNV 2.4, and IACS-E10                                   |

## Order Information

**DNVMR19L300-A1-5RT:** 19" COTS Rugged Marine Display Monitors Compliant with IEC 60945, DNV 2.4, and IACS-E10 Standards, 1280 x 1024 SXGA, 1000:1 contrast ratio

Unit: mm

