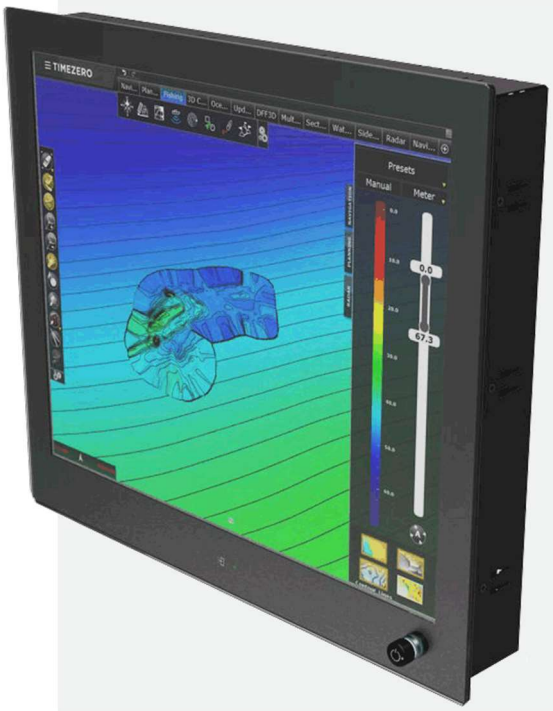
NRN190KG(E)

19.0" Marine Approved

Panel/VESA mount TFT monitor

Marine monitors with full flexibility

The NRN-line monitors are manufactured by a leading European company with more than two decades of experience in design and manufacturing of marine monitors. This ensures meeting the demands of today's professional applications. With most of the design and engineering facilities in-house, we can meet today's demands for professional application solutions.



IEC60945 approved

The NRN-line marine monitor series are approved through the DNV type approval system. Standard features are:

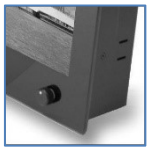
- Full-glass panelmount construction with clamps and VESA mounting
- IP66 front sealing
- One button front or external control with encoder
- Inputs for VGA, DVI-D, HDMI and PAL/NTSC signals
- Integrated Projected capacitive (PCAP) touchscreen
- Anti-glare (etched) protection glass
- Optical Bonding
- Wide range DC input 9-34 Vdc
- Optional high brightness LED backlit TFT panel (1500 cd/m^2)
- DNV type approval

The monitors with Extended construction (and "E" in the part number) are fit with a rotating encoder knob at the front surface, the non-extended versions come with an external encoder. The controls of the monitors are daisy-chainable for controlling backlight brightness though just one encoder. For having full external control over several NRN-line marine monitors an optional NRN-Control unit is available. Ask for the possibilities and further details.

All models within the NRN-line marine are based on the same concept. The DNV approved KGE series are available in 15.0" up to 27.0". Since all features are part of the in-house activities, it brings full flexibility to provide the correct product for a given application.

If you have any question or special request, feel free to ask our experts.

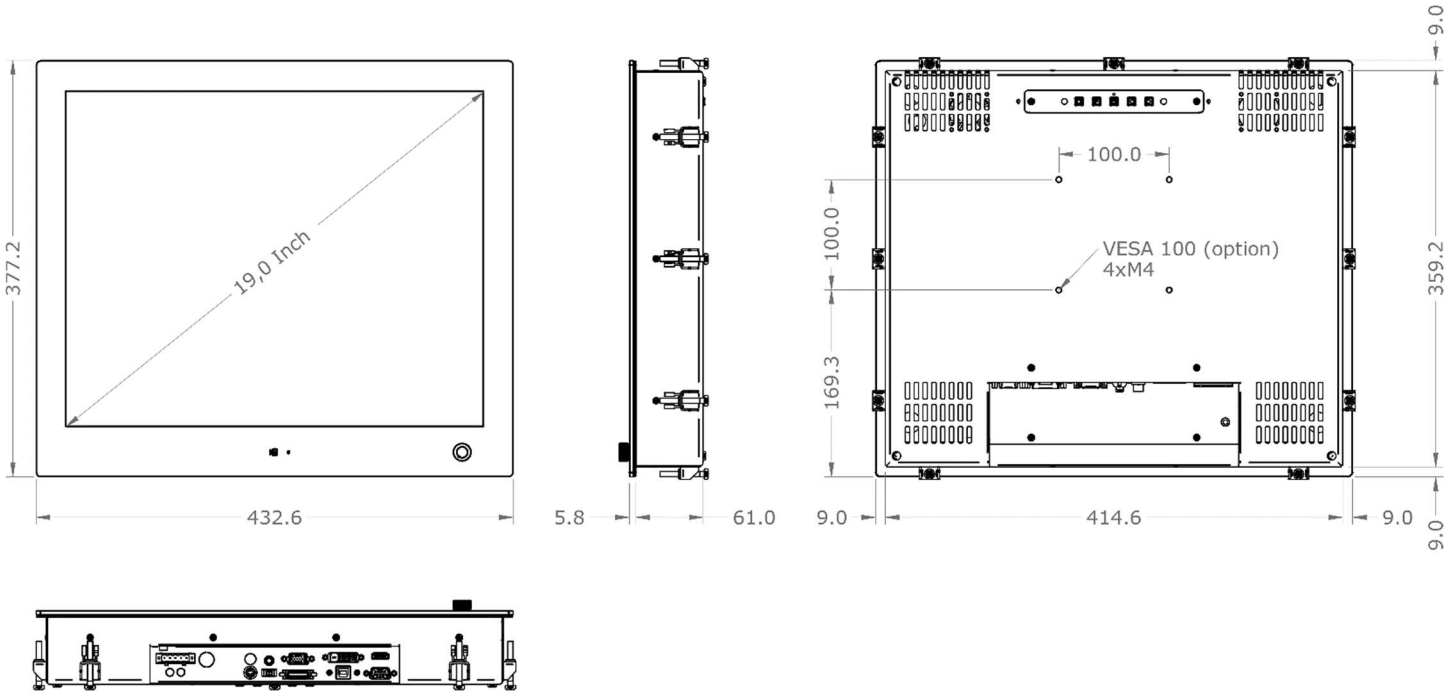




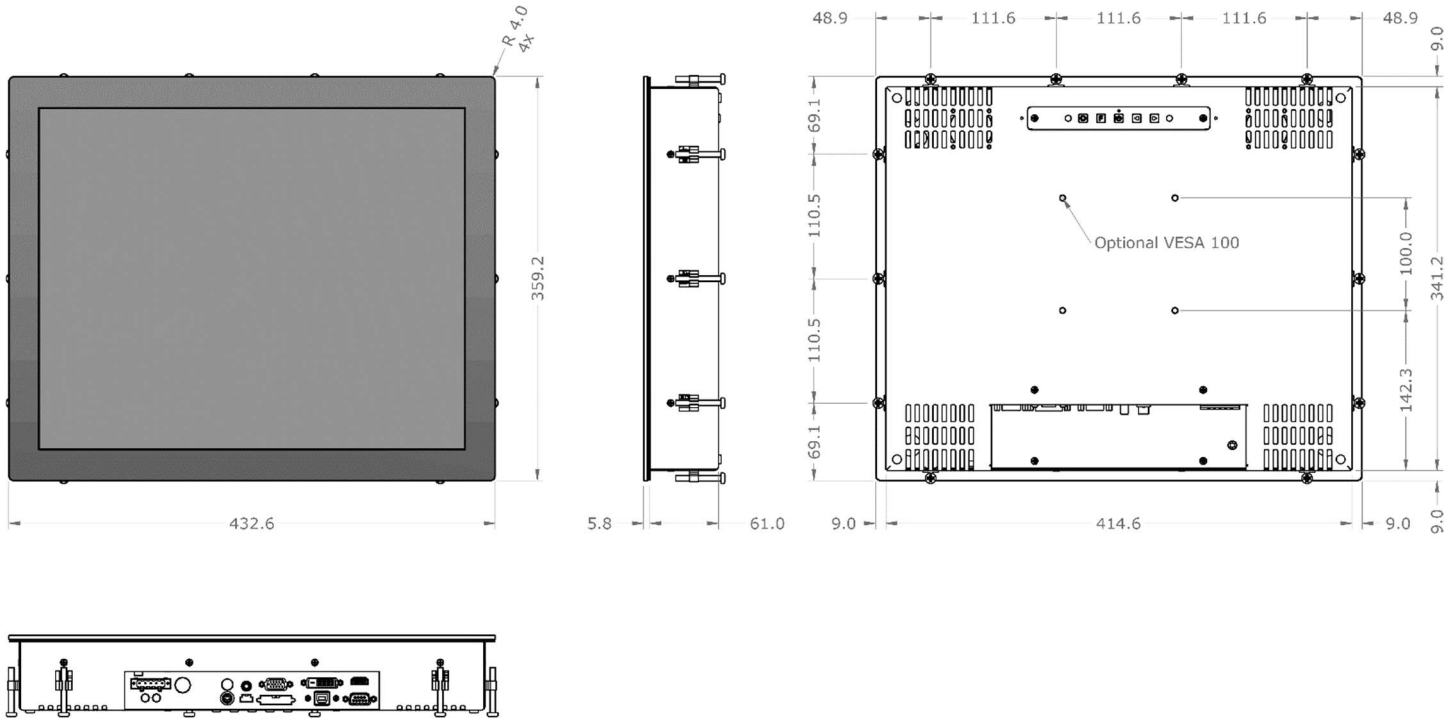




Panelmount NRN190KGE with front control



Panelmount NRN190KG with external control



Specifications		
Display	TFT Max. Resolution Video Pixel pitch Active Display Area Aspect Ratio Brightness Contrast Ratio Viewing Angles (at CR>10) Backlight life Number of Colours	19", a-SI TFT Active Matrix TFT 1280 x 1024 pixels SXGA 0.294 mm 376 x 301 mm 5 : 4 330 cd/m² typical 900 : 1 178°H, 178°V 50.000 hours 16.7 Million
Enhancements	High brightness * Optical Bonding AG Glass	1500 cd/m² typical, 900:1, 178°H, 178°V To avoid dust and to minimize reflections and parallax To minimize reflections
Power Supply	9 - 36VDC	Screw connection, galvanic isolated
Signal Inputs	Analog Digital PAL/NTSC video	D-sub HD15 (VGA) DVI-D & HDMI BNC
Dimming Backlight	Integrated dimming External Dimming	Front Encoder on KGE versions External Encoder on KG versions
Touchscreen	Technology Communication Connection	PCAP Projected Capacitive USB, RS232 on request USB B-type
Environmental	Storage Temperature Operating Temperature Operating Temperature TFT	-20 ~ 70 °C 0 ~ 50 °C -10 ~ 70 °C, high brightness enhanced
Mechanical	Mounting Panelmount IP-rating (front only) Weight	Panelmount with clamps, VESA 100x100 mm Steel, Black powder coated RAL 9005 with full glass front IP66 T.B.D.
Approvals	DNV GL type approved	Certificate no TAA00002V4 rev 1
* = Optional		
Part numbers		
Panelmount with front encoder	NRN190KGE-DNV NRN190KGE-DNV-HB	Standard brightness, standard available High brightness, standard available
Panelmount with external encoder	NRN190KG-DNV NRN190KG-DNV-HB	Standard brightness, standard available High brightness, standard available

Specifications are subject to change without notice *version G190EAN01.0 220223*

- **Monitors**
  - Desktop Monitors
  - Large Screen Monitors
  - Custom-made Monitors
  - 19"Rack mount Monitors
  - Rear Mount Monitors
  - Monitors for Panel mount
  - Monitors for VESA Mount
  - Kiosks
  - Accessories
- **Monitors - Specific applications**
  - Stainless Steel Monitors
  - Car Displays
  - Train Monitors
  - Marine Monitors
  - Militairy Monitors
  - ATEX Monitors
  - Replacement Monitors
- **Panel PC's**
  - High Performance Systems
  - Custom Made Panel PC's
  - Low Power Systems
  - Extreme environments
- **Pointing Devices**
  - Accessories
  - Touchpads
  - Trackballs
  - Trackball Modules
  - Joysticks
  - ATEX Pointing Devices
  - Custom made Pointing Devices
- **Keyboards**
  - Desktop Keyboards with or without pointer
  - Built-in Keyboards with or without pointer
  - ATEX keyboards
  - Cables & Connectors
  - Custom made Keyboards

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Mulder-Hardenberg, est. 1927, is the answer to professional demands in the domain of electronic related environments. We don't just sell products. We use our multidiscipline knowledge to provide the best solutions, designed to your interest.

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