



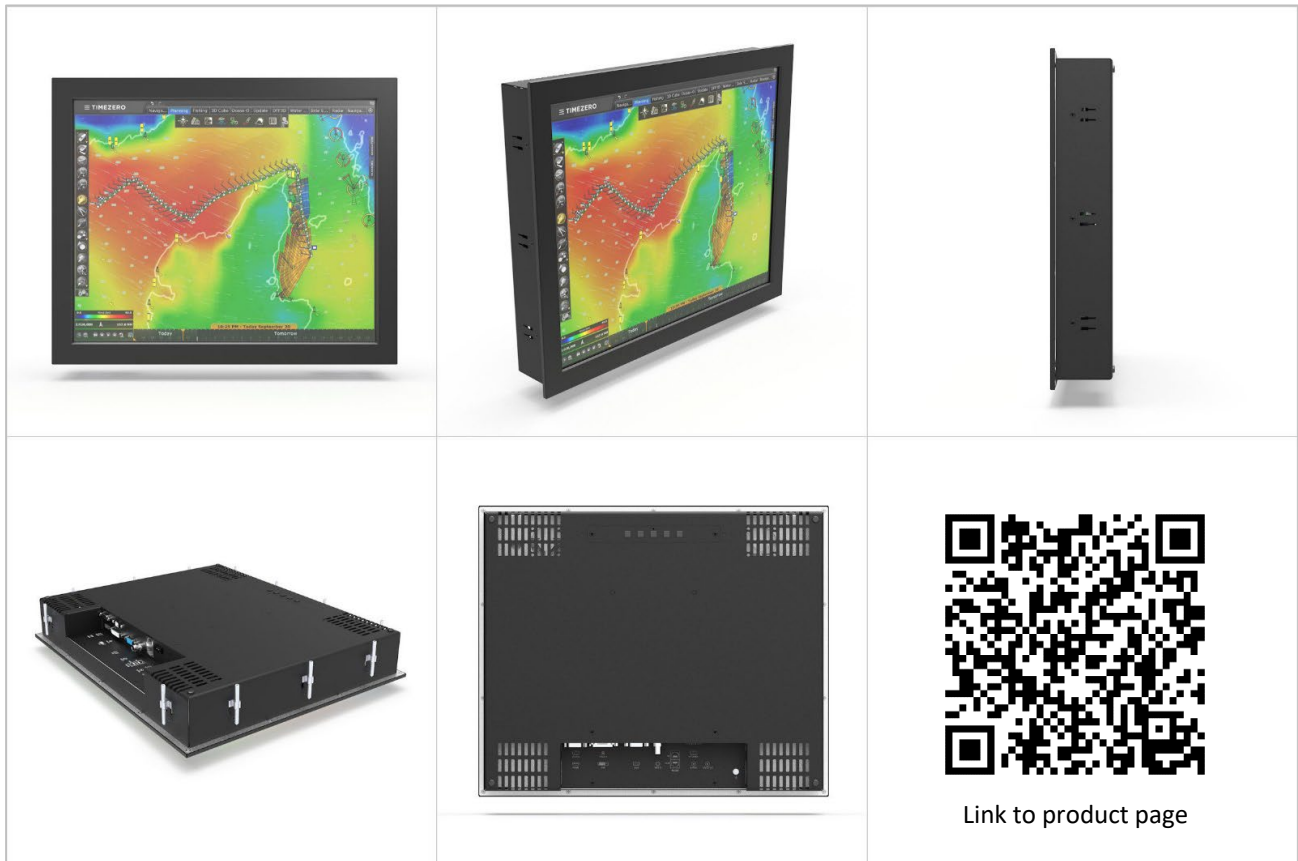
N190K Marine Monitor

ref: PS-N190KmV2

N-Line Panel Mount

Dutch design & production

Nottrot BV is a manufacturer of high quality industrial and marine monitors. All products are assembled and tested in the Netherlands and shipped all over the world. The rugged N-Line K (KE with on-front dimming knob) series are intended to be flush mounted in a desk or pedestal and secured from the back side. With a variety of options a perfect configuration can be made for any indoor or outdoor application. Popular options such as touch, deep dimming (to black), optical bonding and NCOM remote control make this monitor the best of its kind.



Panel

Display	19.0 inch
Active area HxV [mm]	374.78x299.83
Aspect ratio	5:4
Resolution [Pixels]	1280x1024
Viewing angle U/D/L/R [deg]	89/89/89/89
Contrast ratio	1000
Native brightness [cd/m²]	400
High Bright [cd/m²]	1500 ⁽¹⁾

Mechanical

Unit WxHxD [mm]	432.6x359.2x66
Weight (incl. options) [kg]	7
Mounting pattern (VESA)	O (100x100 - M4)

Input sources

HDMI	V
DVI-D	V
VGA	V
CVBS (BNC)	V
HD-SDI	O

Power input

12VDC (Desktop PSU 115/230VAC)	V
9~36VDC (Galvanic isolated)	O (2p screw)
Max. power native brightness [Watt]	30
Max. power high bright [Watt]	65

Optional enhancements

High Bright LED	O (1)
Anti Glare Glass	O (2)
Optical Bonding	O (3)

Touch screen:

Resistive (USB & RS232)	O
Projected capacitive USB (RS232 on request)	O

Dimming controls

On-front dimming & control knob (Encoder)	X (4)
External dimming & control knob (Encoder)	O
External dimming potentiometer	O
External 3 button dimming & control	O
Deep Dimming 0-100%	V
Light Sensor Auto Dimming	X

Interfaces & remote controls only with option dimming

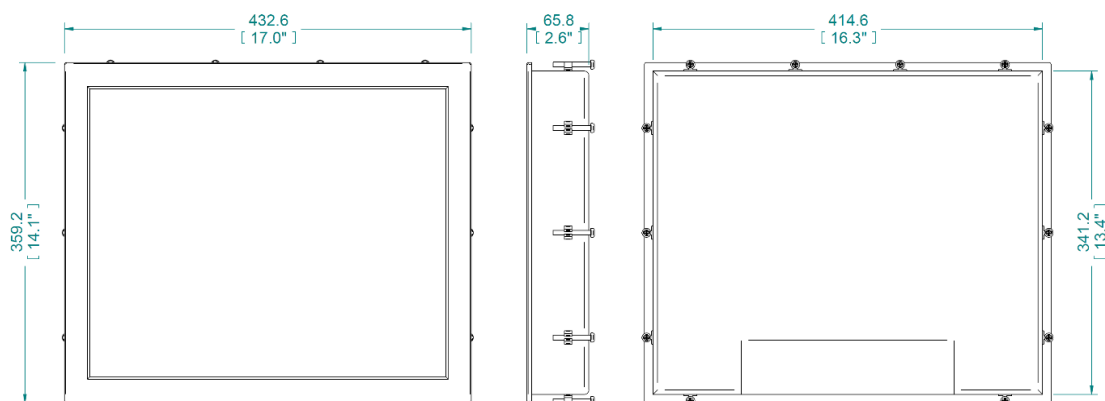
RS485 NCOM	O (5)
NControl	O (6)

Standards & Compliancy

CE	V
IEC60945	X
DNV TA certificate	X
ECDIS	X

Ordering information

N190K-	L	R	Q	I	P	O	G	H	(7)
High Bright LED								HD-SDI	
Resistive touch								Anti Glare Glass	
Projected Capacitive Touch								Optical Bonding	
								Dimming 0.05cd/m2 - 100%	(8)
(Leave blank if not applicable)								9-36VDC input	

Outline dimensions:

This image pertains to outlines only in mm (Inch). Download the dimensional drawing for detailed information.

1) The option 'High Bright' ensures that the monitor is easy to read, even in bright (sun)light. Where a standard monitor provides about 400 nits of light output, the upgrade to high bright LED could achieve 1500 nits or more. This option is often applied in combination with Optical Bonding.

2) Anti Glare (AG) glass is a float glass with single surface micro-etching and non-sparkling effect. The etching dulls the surface very slightly and eliminates annoying reflections almost completely. When applied together with Optical Bonding there is a maximum reduction of reflections, since Optical Bonding dissolves reflections on the rear side of the glass and LCD surface.

3) With the Optical Bonding option, the gap between the LCD surface and the glass is filled with a gel-like adhesive. This eliminates the two surfaces of LCD-AIR-GLASS and reflections will no longer occur and this will improve brightness and contrast significantly. Another advantage is that dust and moisture have no chance to get between the glass and LCD. Optical bonding applied with AG will result in a crystal clear image of superior quality.

4) All dimming controls only applicable with option dimming selected.

5) NCOM is a serial interface and offers the possibility to set the monitor parameters and dimming with an external controller (PC/PLC). Up to 12 monitors can be daisy chained and controlled simultaneously.

6) The NControl is a small programmable control unit with 4.3" touch screen that communicates with the N-Line monitors using the RS485 NCOM protocol. This makes it very easy to make settings (within seconds) and save them in presets. Ask your sales representative for more information.

7) These are standard options. Not all options may be available for this product. Please check the data in this productsheet and contact us if you are in doubt.

8) By default the brightness level is adjusted with a dimming encoder knob. Contact us for other available options such as a light sensor, analog input, potentiometer and central dimming. Minimum brightness may vary.

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Additional system information:

All N-Line monitors can be ordered with the option "dimming" (Option P). This option comes with a variety of extra features and options for dimming control and RS485 connectivity to set display parameters as shown in image below. Make presets within seconds with the NControl and control all display parameters from a PC or PLC with the NCOM RS485 protocol. All control parameters can be set with the NCOM app. Please contact your sales representative for more information and order details.

