

## Industrial 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 industrial and 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.

Display- enhancement (optical bonding) and touch screen integration (lamination) are also part of the in-house activities. This brings full flexibility in the features needed for a given application. With business partners for industrial computing most projects with touch displays can be realized, even with integrated or attached PC (Panel-PC).

With the new series of monitors, the NRN-Line, special attention has been taken regarding robustness in a stylish housing. All models within the NRN-line are based on the same concept chassis and can be configured to your needs and all options are available on each model. Below you can find some examples

- Metal bezel or Full-glass versions
- Projected capacitive (PCAP) or Resistive touchscreen
- High brightness version (1000 cd/m<sup>2</sup>)
- Deep dimming backlight with front or external control
- Central dimming control for daisy chained monitors
- Optical Bonding
- Wide range DC input
- Stainless steel front on the Panelmount units
- Rugged desk stand for VESA mount units available
- Front switching between VGA, DVI-D, HDMI and PAL/NTSC inputs
- Further customized version on request

The OSD standard is setup via rubber buttons at the rear side of the monitor. The extended full-glass versions however can have an additional source select button via capacitive sensor integrated in the glass. The versions with a (illuminated) decoder at the front surface, can have full control of source-select, dimming, on/off and OSD through just this one control.

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

## Marine Approvals / DNV

As an option, the extended glass models can be supplied with DNV marine certification. In this configuration not all sizes and options are available.

## NRN420 Series

### 42.0" Industrial LCD

VESA



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	42.0", a-SI TFT Active Matrix TFT 1920 x 1080 pixels Full HD 0.4845 mm 930 x 523 mm 16 : 9 500 cd/m <sup>2</sup> typical 4000 : 1 178°H, 178°V 50.000 hours 16.7 Million
Enhancements	High brightness * Optical Bonding *  AR/AG Glass *	On request To avoid dust and to minimize reflections and parallax To minimize reflections
Power Supply	90 – 265VAC, 50/60 Hz 12VDC 9 - 36VDC	Integrated Power Adapter Not available Screw connection
Signal Inputs	Analog Digital PAL/NTSC video	D-sub HD15 (VGA) DVI-D & HDMI BNC
Dimming Backlight *	Integrated dimming External Dimming Central Dimming Auto dimming	Not available Potmeter, Encoder, +/- Buttons External encoder, N-control Not available
Touchscreen *	Technology Communication Connection	Projected Capacitive USB, RS232 USB B-type, DB9p
Environmental	Storage Temperature Operating Temperature	-20 ~ 60 °C 0 ~ 50 °C
Mechanical	Chassis VESA and Panelmount IP-rating (front only) Weight	Aluminium Steel, Black powder coated RAL 9005 IP65 (metal front versions) 32.0 kg
* = Optional. See partnumber breakdown table		
Part numbers		
Rear mount Chassis	NRN420C	Not available yet
Panelmount with Metal front	NRN420P NRN420PE	Not available yet Not available yet
Panelmount with Full Glass front	NRN420PG NRN420PGE	Not available yet Not available yet
VESA mount with Metal Front	NRN420V NRN420V-E NRN420V-EO NRN4p20VE	Standard available With integrated AG glass With integrated optical bonded AG glass Not available yet
Marine approved	-	Not available

Specifications are subject to change without notice

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## • Monitors

Desktop Monitors  
Large Screen Monitors  
Custom-made Monitors  
19" Rack mount Monitors  
Rear Mount Monitors  
Monitors for Panel mount  
Monitors for VESA Mount  
Accessories

## • Monitors - Specific applications

Stainless Steel Monitors  
Car Displays  
Train Monitors  
Marine Monitors  
Military Monitors  
ATEX Monitors  
Replacement Monitors

## • Panel PC's

High Performance Systems  
Custom Made Panel PC's  
Low Power Systems  
Extreme environments  
ATEX Workstations

## • 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



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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**MODEL NRN420V**

dims (20-03-2015)

