

INDUSTRIAL MONITORS

Nematron® M-Series **NEW!**



High Definition Widescreen Monitors



M1560WT - 15.6"



M1850WT - 18.5"



M2150WT - 21.5"



M2400WT - 24.0"

M-Series HD Widescreen Monitors Overview

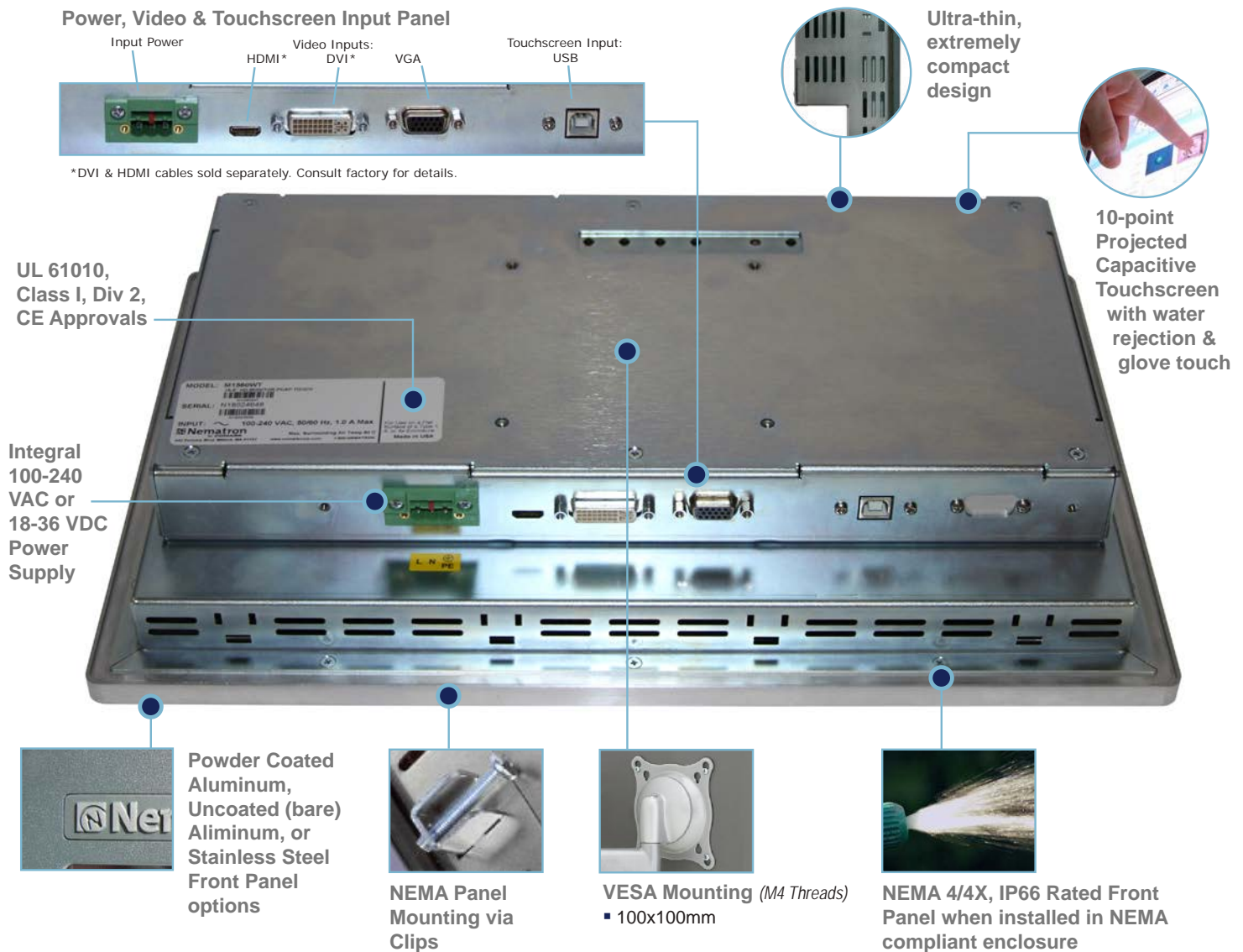
Comark proudly introduces its new line of Nematron branded heavy industrial grade full high definition monitors with the latest projected capacitive touchscreen technology. The updated sleek design provides the high tech look that our customers want and deserve.

Key Features and Benefits

- Available in the 4 commonly used sizes – 15.6", 18.5", 21.5" and 24.0"
- Full 1080HD Color TFT LED-backlit LCD Display to support new widescreen enabled applications
- Projected Capacitive Touch Screen (multi-touch) with water rejection and glove touch improves the user experience
- Full panel sized glass screen with sleek narrow bezel design projects the high tech look you expect
- Ultra-thin panel mounting depth allows for smaller enclosure saving you floor space and money
- NEMA 4X and IP66 ratings protects the monitor and allows for indoor or outdoor use in harsh and potentially corrosive environments where high pressure water might exist
- UL Hazardous Area certifications ensure that you are in compliance for use in hazardous environments

Our new high definition widescreen monitors have been carefully engineered to bring you the latest technology and to exceed the expectations of our customers ensuring them piece of mind that they have selected the best product for their application.

Features and Benefits

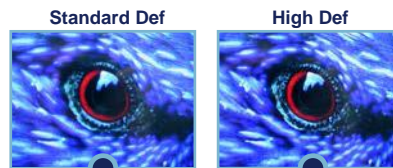


Horizontal or Vertical Orientation



Nematron™ HD Widescreen displays can be mounted in a horizontal or vertical orientation. This is a good solution for SCADA programs and for displaying control application graphics that need more display size.

High Definition Display for High Resolution Control Application Runtime



See the Difference More Clearly.



The HD Widescreen displays have a crisp, bright LED-backlit LCD that displays at 1920 x 1080 HD resolution.



Standard 2-year warranty
▪ Covers parts and service



Physical	M1560WT	M1850WT	M2150WT	M2400WT
Overall Dimensions (H x W x D)	10.13" x 16.03" x 2.90" (257.3mm x 407.2mm x 73.7mm)	11.51" x 18.51" x 2.90" (292.4mm x 470.2mm x 73.7mm)	13.06" x 21.22" x 2.90" (331.7mm x 539.0mm x 73.7mm)	14.30" x 23.45" x 2.90" (363.2mm x 595.6mm x 73.7mm)
Panel Mounting Depth	2.6" (66.0mm)	2.6" (66.0mm)	2.6" (66.0mm)	2.6" (66.0mm)
Cutout Dimensions (H x W)	8.85" x 14.75" (224.8mm x 374.7mm)	10.32" x 17.32" (262.1mm x 439.9mm)	11.87" x 20.03" (301.5mm x 508.8mm)	13.10" x 22.25" (332.7mm x 565.2mm)
Weight	15.0 lbs (6.80kg)	19.0 lbs (8.6kg)	19.5 lbs (8.9kg)	22.0 lbs (10.0kg)
Shipping Weight	20.0 lbs (9.06kg)	24.0 lbs (10.9kg)	24.5 lbs (11.1kg)	27.0 lbs (12.2kg)
Option Weight (SS)*	+2.0 lbs (0.91kg)*	+2.0 lbs (0.91kg)*	+2.5 lbs (1.13kg)*	+2.5 lbs (1.13kg)*

* Additional weight for Stainless Steel option.

Display	M1560WT	M1850WT	M2150WT	M2400WT
Display Diagonal	15.6" (396.2mm)	18.5" (469.9mm)	21.5" (546.1mm)	24.0" (609.6mm)
Display Size	7.62" x 13.55"	9.06" x 16.10"	10.56" x 18.77"	11.77" x 20.92"
Active Area (H x W)	(193.5mm x 344.2mm)	(230.1mm x 408.9mm)	(268.2mm x 476.8mm)	(299.0mm x 531.4mm)
Native Resolution	HD, 1920 x 1080	HD, 1920 x 1080	HD, 1920 x 1080	HD, 1920 x 1080
Aspect Ratio	16:9	16:9	16:9	16:9
Brightness	350 nit	300 nit	250 nit	250 nit
Contrast Ratio	700:1	1000:1	5000:1	5000:1
Horz/Vert Viewing Angle	160°/140°	178°/178°	178°/178°	178°/178°
Backlight Life / Typical	50,000 hrs	50,000 hrs	30,000 hrs	50,000 hrs

Typical* Power	M1560WT	M1850WT	M2150WT	M2400WT
AC Input Voltage	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
AC Input Current	0.5 A Max	0.5 A Max	1.0 A Max	1.0 A Max
DC Input Voltage (optional)	18-36 VDC	18-36 VDC	18-36 VDC	18-36 VDC
DC Input Current (optional)	2.0 A Maximum	2.0 A Maximum	2.0 A Maximum	2.0 A Maximum
Input Power	30W	35W	40W	60W

* Typical power is measured per model/per processor and without any additional I/O or expansion inputs. Any additional I/O installed during application can increase this value.

COMMON SPECS

I/O

Available I/O (1) VGA, (1) DVI-D, (1) Mini HDMI, (1) USB-B, Touchscreen inputs

Touchscreen

Technology Projected Capacitive, 10 simultaneous touch points, water rejection and glove touch

Environmental	Operating	Non-operating
Temperature ¹ / Humidity	0 - 60°C / 20% to 80% RH Non-condensing	-20 to 65°C / 20% to 80% RH Non-condensing
Shock	15g peak acceleration, 11msec	30g peak acceleration, 11msec
Vibration (5-2000 Hz)	.006" peak to peak displacement, 1.0g maximum acceleration	.015" peak to peak displacement, 2.5g maximum acceleration
Altitude ²	Sea level to 10,000 feet	Sea level to 40,000 feet

¹ Temperature specifications are for air temp surrounding the unit (i.e. inside any enclosure being utilized). Meets US Federal Requirements specified in 46 CFR 111.01-15 (d) for offshore electrical systems.

² Altitude specification is established by using all internal component specifications.

Agency Approvals

Front Panel NEMA Rating	NEMA 4/4X, IP66
FCC	47 CFR, Part 15, Class A
EU CE Marking Compliance	CE, EN 55022; Class A, EN 61000, IEC 60950
Safety Agency Approvals	UL and cUL 61010
	UL and cUL Class 1, Division 2 Groups A, B, C, D and Class 2, Division 2 Groups F & G, Class 3

Options

Front Panel Powder Coated or Bare Aluminum - Standard. Optional 304 Stainless Steel

ORDER NUMBER GENERATION

Base Unit Configuration: MxxxxWT, where x = 1560, 1850, 2150 or 2400 (display size). NEMA 4/4X, IP66 panel mount, flat panel monitor with projected capacitive touchscreen, built in AC power supply, and powder coated aluminum front panel. Units ship with AC wiring receptacle, 3m USB cable, mounting hardware, and operator's guide.

	M	WT -
Display Size:		
1560WT	15.6"	1920 X 1080 High Definition, Projected Capacitive
1850WT	18.5"	1920 X 1080 High Definition, Projected Capacitive
2150WT	21.5"	1920 X 1080 High Definition, Projected Capacitive
2400WT	24.0"	1920 X 1080 High Definition, Projected Capacitive
Power Supply:		
blank	100-240 VAC	50/60 Hz
-DC	18-36 Volt	DC
Front Panel:		
blank	Powder Coated Aluminum	
-AL	Uncoated (Bare) Aluminum	
-SS	Machined 304 Stainless Steel	

Accessories

CBL-3-VGA	15-Pin analog VGA cable, 3' length
CBL-10-VGA	15-Pin analog VGA cable, 10' length
CBL-25-VGA	15-Pin analog VGA cable, 25' length
CBL-50-VGA	15-Pin analog VGA cable, 50' length

CBL-3M-DVI	DVI (type D) video cable, 3 m length
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CBL-3M-HDMI/DVI	3 meter HDMI to DVI-D video cable
CBL-25-HDMI/DVI	25 feet HDMI to DVI-D video cable
CBL-50-HDMI/DVI	50 feet HDMI to DVI-D video cable

CBL-3-USB	USB touch screen cable, 3' length
CBL-10-USB	USB touch screen cable, 10' length
CBL-15-USB	USB touch screen cable, 15' length

PWR-AC	Plug for field wiring AC power
PWR-DC	Plug for field wiring DC power
MISC-CLIP	Mounting clip kit, includes 16 clips and screws
CBL-PWR-AC	6' AC wiring cable with standard 3-prong US end on one side and Phoenix Power Wiring connector with cover on other end. NOTE: NOT allowed for use in Hazardous Conditions.

MTG-DEMOSTAND	Stand for demonstration development purposes only. Includes mounts for 75 mm or 100 mm VESA patterns. NOTE: Not intended for use in production applications.
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