

Marine Advantages:

- Sunlight Readable Marine Display
- High Brightness LCD Technology
- Anti-vibration and Anti-corrosion
- Reliability Products Compliant with IEC60945
- AOT optical Bonding Technology
- Advance Multi Touch Technology







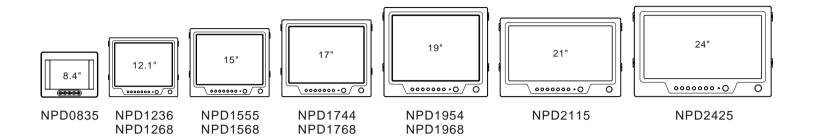






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Marine Display



NAVPIXEL[™] Marine Display Series

IP65/IP68 Sunlight Readable Marine Display

NAVPIXEL[™] NPD is a new series of marine grade display. With high-performance sunlight viewability LED backlight LCD panels, these rugged touch monitors are specially engineered to survive from the most demanding working environment. Housed in the milled billet aluminum case, the slim-profile NAVPIXEL[™] NPD displays are all light weight and watertight with fully sealed IP65 connectors (NPD0835 up to IP68). In addition, through integrating touchscreen technology and sunlight readable LCD, these monitors can be used not only leisure activities such as fishing and cruising but also more professional marine projects!

Main Features

- IP65 Marine Grade Display (NPD0835 up to IP68)
- 1000 nits Sunlight Readable LCD
- Advanced Optical Bonding (AOT)
- Resistive & PCT Touch/AR Glass Support
- Long Life, Low Power Consumption LED Backlight
- Night Mode Support
- Wide Dimming Potentiometer
- Rich I/O: VGAx2, DVIx2, CVBSx3 (17 "above)
- PIP Function Support (17 "above)
- -20°C~60°C Wide Operation Temperature
- 9~36V DC input
- Slim Bezel Design
- Anti-Shock and Anti-Vibration Resistance
- Conformal Coating

Application

Marine



8.4" <u>Spe</u>cifications

Features:

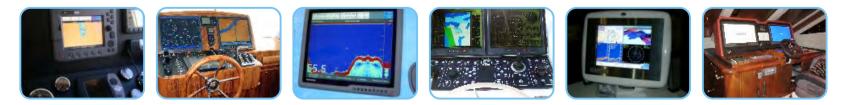
- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- IR Touch Support
- IP68 Design
- •AR Glass Support
- 9-36V DC Input





IP68 Sunlight Readable Marine Display

Model Number	NPD0835
Description	8.4" IP68 Sunlight Readable Marine Display
LCD Display	
Backlight	8.4" LED Backlight
Active Display Area	170.4x127.8 mm
Brightness	1000 cd/m ²
Resolution	800x600 (SVGA)
Contrast Ratio	600:1
Pixel Pitch (mm)	0.213(H)x0.213(V)
Viewing Angle	+60°~60°(H), +55°~65°(V)
Display Color	16.2M
Response Time	Tr 10ms/ Tf 20ms
Inputs	VGAx1
Mechanical	
IP Rating	IP68 (NEMA6P Submersible)
Construction	Rugged Aluminum Alloy Chassis
Mounting	RAM mount, VESA mount
Dimension	250mm (W) x 200mm(H) x 64mm(D)
Net Weight	3kg
Power	
Voltage	DC Input 9~36V
Power Consumption	9.5W
Environmental	
Operating Temperature	-20°C~60°C (-4°F~140°F)
Storage Temperature	-30°C~75°C (-22°F~167°F)
Certification	CE/FCC
Marine Type Approval	IEC 60945 BV Marine and IACS-E10 Approval



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12.1" Specifications

Features:

- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- Resistive & PCTTouch Support
- Front IP65 Design
- AR Glass Support
- 9-36V DC Input



IP65 Sunlight Readable Marine Display

Model Number	NPD1236	NPD1268
Description	12.1" IP65 Sunlight Readable Ma	arine Display
LCD Display		
Backlight	12.1" LED Backlight	12.1" LED Backlight
Active Display Area	245.76x184.32 mm	245.76x184.32 mm
Brightness	1000 cd/m ²	1600 cd/m ²
Resolution	1024x768 (XGA)	1024x768 (XGA)
Contrast Ratio	700:1	700:1
Pixel Pitch (mm)	0.24(H)x0.24(V)	0.24(H)x0.24(V)
Viewing Angle	140°(H), 140°(V)	160°(H), 160°(V)
Display Color	262k	262k
Response Time	Tr 6ms/ Tf 17ms	35ms
Inputs	VGAx1, DVIx1, Composite x3, RS232x1, USBx1	
Mechanical		
IP Rating	Fascial waterproof to IP65 stand	ards when console mounted.
Construction	Rugged Aluminum Alloy Chassis	
Mounting	Panel (Flush) mount, VESA mour	nt
Dimension (WxHxD)	297.2mm x 256mm x 56mm	316mmx 272.3mmx 56mm
Net Weight	2.5kg	2.5kg
Power		
Voltage	DC Input 9~36V	DC Input 9~36V
Power Consumption	24W	14W
Environmental		
Operating Temperature	-20°C~60°C (-4°F~140°F)	-20°C~60°C (-4°F~140°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)	-20°C~70°C (-4°F~158°F)
Touch Screen (Optional)	□Resistive □PCT	
Certification	CE/FCC	
Marine Type Approval	IEC 60945 BV Marine and IACS-	E10 Approval



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15" Specifications

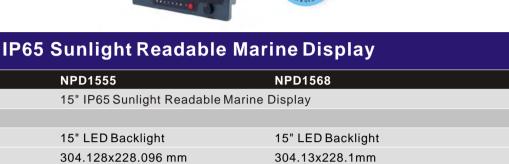
Features:

- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- Resistive & PCTTouch Support
- Front IP65 Design
- AR Glass Support
- 9-36V DC Input

Model Number

Description LCD Display





Backlight	15" LED Backlight	15" LED Backlight
Active Display Area	304.128x228.096 mm	304.13x228.1mm
Brightness	1000 cd/m ²	1600 cd/m ²
Resolution	1024x768 (XGA)	1024x768 (XGA)
Contrast Ratio	700:1	700:1
Pixel Pitch (mm)	0.297(H)x0.297(V)	0.297(H)x0.297(V)
Viewing Angle	160°(H), 160°(V)	160°(H), 160°(V)
Display Color	16.2M	16.7M
Response Time	Tr 8ms/ Tf 17ms	Tr 8ms/ Tf 17ms
Inputs	VGAx1, DVIx1, Composite x3, RS2	232x1,USBx1
Mechanical		
IP Rating	Fascial waterproof to IP65 standar	ds when console mounted.
Construction	Rugged Aluminum Alloy Chassis	
Mounting	Panel (Flush) mount, VESA mount	
Dimension (WxHxD)	352.8mmx 303.3mmx 56.4mm	TBD
Net Weight	3.5kg	TBD
Power		
Voltage	DC Input 9~36V	DC Input 9~36V
Power Consumption	40.8W	TBD
Environmental		
Operating Temperature	-20°C~60°C (-4°F~140°F)	-20°C~60°C (-4°F~140°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)	-20°C~70°C (-4°F~158°F)
Touch Screen (Optional)	□Resistive □PCT	
Certification	CE/FCC	
Marine Type Approval	IEC 60945 BV Marine and IACS-E	10 Approval



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17" <u>Spe</u>cifications

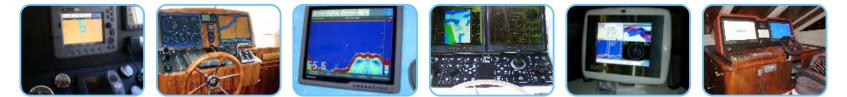
Features:

- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- Resistive & PCT Touch Support
- Front IP65 Design
- 9-36V DC Input
- Picture In Picture Function



IP65 Sunlight Readable Marine Display

Model Number	NPD1744	NPD1768
Description	17" IP65 Sunlight Readable Marin	
LCD Display		
Backlight	17" LED Backlight	17" LED Backlight
Active Display Area	337.92x270.336 mm	337.9x270.3 mm
Brightness	1000 cd/m ²	1600 cd/m ²
Resolution	1280x1024 (SXGA)	1280x1024 (SXGA)
Contrast Ratio	800:1	1000:1
Pixel Pitch (mm)	0.264(H)x0.264(V)	0.264(H)x0.264(V)
Viewing Angle	160°(H), 160°(V)	160°(H), 160°(V)
Display Color	16.7M	16.7M
Response Time	Tr 3.5ms/ Tf 1.5ms	Tr 3.6ms/ Tf 1.4ms
Inputs	VGAx2, DVIx2, Composite x3, RS	232x1,USBx1
Picture in Picture	3 Stages (child, split and wide scre	een)
Mechanical		
IP Rating	Fascial waterproof to IP65 standa	rds when console mounted.
Construction	Rugged Aluminum Alloy Chassis	
Mounting	Panel (Flush) mount, VESA mount	t
Dimension (WxHxD)	384mm x 348.1mm x 57.8mm	TBD
Net Weight	4.5kg	TBD
Power		
Voltage	DC Input 9~36V	DC Input 9~36V
Power Consumption	50W	TBD
Environmental		
Operating Temperature	-10°C~50°C (-14°F~122°F)	-10°C~50°C (-14°F~122°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)	-20°C~70°C (-4°F~158°F)
Touch Screen (Optional)	□Resistive □PCT	
Certification	CE/FCC	
Marine Type Approval	IEC 60945 BV Marine and IACS-E	10 Approval



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19" Specifications

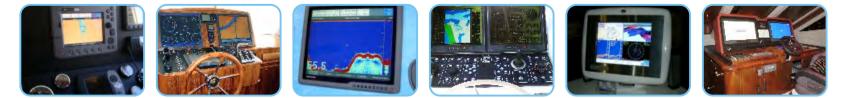
Features:

- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- Resistive & PCTTouch Support
- Front IP65 Design
- 9-36V DC Input
- Picture In Picture Function



IP65 Sunlight Readable Marine Display

Model Number	NPD1954	NPD1968
Description	19" IP65 Sunlight Readable Marin	e Display
LCD Display		
Backlight	19" LED Backlight	19" LED Backlight
Active Display Area	376.32x301.06 mm	376.3x301.1 mm
Brightness	1000 cd/m ²	1600 cd/m ²
Resolution	1280x1024 (SXGA)	1280x1024 (SXGA)
Contrast Ratio	1000:1	1000:1
Pixel Pitch (mm)	0.294(H)x0.294(V)	0.294(H)x0.294(V)
Viewing Angle	170°(H), 160°(V)	170°(H), 160°(V)
Display Color	16.7M	16.7M
Response Time	Tr 3.6ms/ Tf 1.4ms	Tr 3.6ms/ Tf 1.4ms
Inputs	VGAx2, DVIx2, Composite x3, RS	232x1,USBx1
Picture in Picture	3 Stages (child, split and wide scre	een)
Mechanical		
IP Rating	Fascial waterproof to IP65 standa	rds when console mounted.
Construction	Rugged Aluminum Alloy Chassis	
Mounting	Panel (Flush) mount, VESA mount	t
Dimension (WxHxD)	421.9mmx 375.5mmx 56.8mm	TBD
Net Weight	5.5kg	TBD
Power		
Voltage	DC Input 9~36V	DC Input 9~36V
Power Consumption	55W	TBD
Environmental		
Operating Temperature	-10°C~50°C (-14°F~122°F)	-10°C~50°C (-14°F~122°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)	-20°C~70°C (-4°F~158°F)
Touch Screen (Optional)	□Resistive □PCT	
Certification	CE/FCC	
Marine Type Approval	IEC 60945 BV Marine and IACS-E	10 Approval



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21" Specifications

Features:

- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- Resistive & PCT Touch Support
- Front IP65 Design
- 9-36V DC Input
- Picture In Picture Function



IP65 Sunlight Readable Marine Display

Model Number	NPD2115
Description	21.5" IP65 Sunlight Readable Marine Display
LCD Display	
Backlight	21.5" LED Backlight
Active Display Area	476.64x268.11 mm
Brightness	1000 cd/m ²
Resolution	1920x1080(Full HD)
Contrast Ratio	1000:1
Pixel Pitch (mm)	0.248(H) x 0.248(V)
Viewing Angle	170°(H), 160°(V)
Display Color	16.7M
Response Time	5 ms
Inputs	VGAx2, DVIx2, Composite x3, RS232x1
Picture in Picture	3 Stages (child, split and wide screen)
Mechanical	
IP Rating	Fascial waterproof to IP65 standards when console mounted.
Construction	Rugged Aluminum Alloy Chassis
Mounting	Panel (Flush) mount, VESA mount
Dimension (WxHxD)	525.8mm x 345.2 mm x 56.4mm
Net Weight	5.5kg
Power	
Voltage	DC Input Voltage: DC 9~36V
Power Consumption	26W
Environmental	
Operating Temperature	-10°C~50°C (-14°F~122°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)
Touch Screen (Optional)	□Resistive □PCT
Certification	CE/FCC
Marine Type Approval	IEC 60945 BV Marine and IACS-E10 Approval



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24" <u>Specifications</u>

Features:

- 1000 nits Sunlight Readable LCD
- LED Backlight
- Wide Operating Temperature
- Advanced Optical Bonding (AOT)
- Resistive Touch Support
- Front IP65 Design
- 9-36V DC Input
- Picture In Picture Function



IP65 Sunlight Readable Marine Display

Model Number	NPD2425
Description	24" IP65 Sunlight Readable Marine Display
LCD Display	
Backlight	24" LED Backlight
Active Display Area	531.36x298.89 mm
Brightness	1000 cd/m ²
Resolution	1920x1080(Full HD)
Contrast Ratio	3000:1
Pixel Pitch (mm)	0.276(H) x 0.276(V)
Viewing Angle	178°(H), 178°(V)
Display Color	16.7M
Response Time	25 ms
Inputs	VGAx2, DVIx2, Composite x3, RS232x1
Picture in Picture	3 Stages (child, split and wide screen)
Mechanical	
IP Rating	Fascial waterproof to IP65 standards when console mounted.
Construction	Rugged Aluminum Alloy Chassis
Mounting	Panel (Flush) mount, VESA mount
Dimension (WxHxD)	601.7mm x 423.3mm x 57.7mm
Net Weight	7.8kg
Power	
Voltage	DC Input Voltage: DC 9~36V
Power Consumption	50W
Environmental	
Operating Temperature	-10°C~50°C (-14°F~122°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)
Touch Screen (Optional)	
Certification	CE/FCC
Marine Type Approval	IEC 60945 BV Marine and IACS-E10 Approval



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Ordering Information

NPD Series

Part Number	Description
NPD0835-ETAW-A01	8.4", 1000nits, SVGA, Touch-usb.LID08A, AD5621G, WP, AOT, V01
NPD0835-EGAW-A01	8.4", 1000nits, SVGA, LID08A, O/F, AR Glass, AD5621G, WP, AOT, V01
NPD1236-EGAW-G01	12",1000nits,XGA,AR glass.LID12B02,AD2662,WP,AOT,V01
NPD1236-EGAW-G011	12",1000nits,XGA,AR glass.LID12B02,AD2662,WP,AOT.withadaptor,V01
NPD1236-ETAW-G01	12", 1000nits, XGA,Touch-usb.Transparency:80%,LID12B02.AD2662,WP,AOT,V01
NPD1236-ETAW-G011	12", 1000nits,XGA,Touch-usb.(Transparency:80%)LID12B02.AD2662,WP,AOT,with adaptor.V01
NPD1555-EGAW-G01	15",1000nits.XGA,AR glass.LID15B01,AD2662,WP,AOT,V01
NPD1555-EGAW-G011	15",1000nits,XGA,AR glass.LID15B01,AD2662,WP,AOT.withadaptor,V01
NPD1555-ETAW-G01	15",1000nits,XGA,Touch-usb.(Transparency:80%),LID15B01.AD2662,WP,AOT,V01
NPD1555-ETAW-G011	15",1000nits,XGA,Touch-usb.(Transparency:80%),LID15B01.AD2662,WP,AOT,with adaptor.V01
NPD1744-EGAW-H01	17",1000nits,SXGA,AR glass.LID17B01,AD8668,WP,AOT,V01
NPD1744-EGAW-H011	17",1000nits,SXGA,AR glass.LID17B01,AD8668,WP,AOT.withadaptor,V01
NPD1744-ETAW-H01	17" ,1000nits, SXGA,Touch-usb.Transparency:80,LID17B01.AD8668,WP,AOT,V01
NPD1744-ETAW-H011	17",1000nits,SXGA,Touch-usb.(Transparency:80%),LID17B01.AD8668,WP,AOT,with adaptor.V01
NPD1954-EGAW-H01	19",1000nits,SXGA,AR glass.LID19B02,AD8668,WP,AOT,V01
NPD1954-EGAW-H011	19",1000nits,SXGA,AR glass.LID19B02,AD8668,WP,AOT.withadaptor,V01
NPD1954-ETAW-H01	19",1000nits,SXGA,Touch-usb.(Transparency:80%),LID19B02.AD8668,WP,AOT,V01
NPD1954-ETAW-H011	19",1000nits,SXGA,Touch-usb.(Transparency:80%),LID19B02.AD8668,WP,AOT,with adaptor.V01
NPD2115-EGAW-H01	21.5",1000nits,FHD,AR Glass.LID21,AD8668,WP,VR,AOT,V01
NPD2115-EGAW-H011	21.5",1000nits,FHD,AR Glass.LID21,AD8668,WP,VR,AOT.withadaptor,V01
NPD2115-ETAW-H01	21.5",1000nits,FHD,Touch-usb.(Transparency:80%),LID21.AD8668,WP,VR,AOT,V01
NPD2115-ETAW-H011	21.5", 1000nits, FHD.T/OT-5w-res-usb.(Transparency:80%), LID21.AD8668, WP, VR, AOT.with adaptor, V01
NPD2425-EGAW-H01	24",1000nits,FHD,AR Glass.LID24,AD8668,WP,VR,AOT,V01
NPD2425-EGAW-H011	24",1000nits,FHD,AR Glass.LID24,AD8668,WP,VR,AOT.withadaptor,V01
NPD2425-ETAW-H01	24",1000nits,FHD.T/OT-5w-res-usb.(Transparency:80%),LID24.AD8668,WP,VR,AOT,V01
NPD2425-ETAW-H011	24",1000nits,FHD.T/OT-5w-res-usb.(Transparency:80%),LID24.AD8668,WP,VR,AOT.with adaptor,V01

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