NORTH INVENT

Sea Line MK3, Sea Line MK2, O'Sean Line, Accessories

- Comprehensive Product Catalogue

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Monitor designation

Each Sea Line MK3, MK2 and O'Sean Line Monitor is designated as follow:

Sea Line MK3 23.1"

SL	231	01	MON	03	0001

Sea Line MK2 19.0"

SL	190	02	MON	02	0002

O' Sean Line 25.5"

GB	255	01	MON	01	0001

Where "SL/GB" stands for SeaLine/GlassBridge, "150/190/213/231/255" for the display's Size, "01/02" for the hardware Revision, "MON" for Monitor, "03/02/01" for Version MK3/MK2/O'SL and "0001/0002" for the Configuration type.

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Sea Line MK3 - ECDIS approved monitors

Sea Line MK3 - 15.0''

Resolution: 1.024 x 768 pixels (XGA)
Light intensity: 450 cd/m^2
Response time: 19 ms
Contrast ratio: 450:1
Viewing angle: 150°
Type number: SL150-01.MON.03.0001

Sea Line MK3 - 19.0''

Resolution: 1.280 x 1.024 pixels (SXGA)
Light intensity: 250 cd/m^2
Response time: 13 ms
Contrast ratio: 1.000:1
Viewing angle: 178°
Type number: SL190-01.MON.03.0001

Sea Line MK3 - 21.3''

Resolution: 1.600 x 1.200 pixels (30-65 Hz)
1.280 x 1.024 pixels (30-100 Hz)
Light intensity: 300 cd/m^2
Response time: 16 ms
Contrast ratio: 900:1
Viewing angle: 178°
Type number: SL213-01.MON.03.0001

Sea Line MK3 - 23.1''

Resolution: 1.600 x 1.200 pixels (30-65 Hz)
1.280 x 1.024 pixels (30-100 Hz)
Light intensity: 250 cd/m^2
Response time: 20 ms
Contrast ratio: 500:1
Viewing angle: 170°
Type number: SL231-01.MON.03.0001

Alimentation:	115/230 VAC, 24 VDC
Water proofness:	IP 66 & IP 67
Operating Temp.:	-15/+55°C. +5/131°F
Storage Temp.:	-25/+70°C. -13/158°F
Backlight life:	Typ. 50.000 hours
Dimming range:	0-100% (ratio 1.000:1)
Inputs:	DVI-I
	VGA
	Composite video
	S-Video
	AC power IEC Inlet &
	DC screw terminal
Standards:	IEC 60529 (IP)
	IACS E10
	ECDIS approved by BSH
	Designed to comply to MIL-STD-810F & MIL-STD-901D
Accessories:	Sunshade
	Stand (simple/dual layers)
	Stand + Turntable
	Sealing Kit

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Sea Line MK2 - ECDIS approved Swap

Alimentation:	115/230 VAC
Water proofness:	IP 66 & IP 67
Operating Temp.:	-15/+55°C. +5/131°F
Storage Temp.:	-25/+70°C. -13/158°F
Backlight life:	Typ. 50.000 hours
Dimming range:	0-100% (ratio 1.000:1)
Inputs:	DVI-I
	VGA
	Composite video
	S-Video
	AC power IEC Inlet
Outputs:	Same as supplied voltage
Standards:	IEC 60529 (IP)
	IACS E10
	To be ECDIS approved by BSH
	Designed to comply with MIL-STD-810F & MIL-STD-901D

Sea Line MK2 - 19.0''

Resolution:	1.280 x 1.024 pixels (SXGA)
Light intensity:	250 cd/m^2
Response time:	13 ms
Contrast ratio:	1.000:1
Viewing angle:	178°
Type number:	SL190-01.MON.02.0001

Sea Line MK2 - 23.1''

Resolution:	1.600 x 1.200 pixels (UXGA)
Light intensity:	250 cd/m^2
Response time:	20 ms
Contrast ratio:	500:1
Viewing angle:	170°
Type number:	SL231-01.MON.02.0001
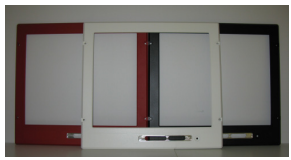
Sea Line - ECDIS approved accessories

Material:	Marine Aluminium Grade
Colour:	Matching with monitor's colour
Test:	BSH approved accessories
Use:	External (e.g. open bridge) / Internal (e.g. desk/roof mounting)
Water proofness:	Custom size sealing kits
Extra features:	Reinforced stands & turntables for larger monitors
Mode Wizard:	Identical Human Machine Interface (OSD) for all monitors
Delivery:	User Manual on CD Rom, Power and VGA cables

Type Numbers

SL150-01.STA.01-0001	Brackets, Single layer	15"
SL150-01.STU.01-0001	Brackets, Single layer + turntable	15"
SL190-01.STA.01-0001	Brackets, Single layer	19"
SL190-01.STU.01-0001	Brackets, Single layer + turntable	19"
SL190-01.STA.02-0001	Reinforced Brackets, Double layer	19"
SL190-01.STU.02-0001	Reinforced Brackets, Double layer + turntable	19"
SL213-01.STA.01-0001	Brackets, Single layer	21"
SL213-01.STU.01-0001	Brackets, Single layer + turntable	21"
SL213-01.STA.02-0001	Reinforced Brackets, Double layer	21"
SL213-01.STU.02-0001	Reinforced Brackets, Double layer + turntable	21"
SL231-01.STA.01-0001	Reinforced Brackets, Double layer	23"
SL231-01.STU.01-0001	Reinforced Brackets, Double layer + turntable	23"
SL150-01.SUN.01-0001	Sunshade	15"
SL190-01.SUN.01-0001	Sunshade	19"
SL213-01.SUN.01-0001	Sunshade	21"
SL231-01.SUN.01-0001	Sunshade	23"
SEAL-KIT-150	1 O'ring 15.0'' gasket, 4 O'ring for screws, 1 vaseline box	15"
SEAL-KIT-190	1 O'ring 19.0'' gasket, 4 O'ring for screws, 1 vaseline box	19"
SEAL-KIT-213	1 O'ring 21.3'' gasket, 4 O'ring for screws, 1 vaseline box	21"
SEAL-KIT-231	1 O'ring 23.1'' gasket, 4 O'ring for screws, 1 vaseline box	23"

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O' Sean Line - Exclusive glass front monitors

O'Sean Line - 15.0''

Resolution: 1.024 x 768 pixels (XGA)
Light intensity: 450 cd/m^2
Response time: 19 ms
Contrast ratio: 450:1
Viewing angle: 150°
Type number: GB150-01.MON.01.0001

Wide Screen 26'' format allowing for Multiple Screens Displays

O'Sean Line - 19.0''

Resolution: 1.280 x 1.024 pixels (SXGA)
Light intensity: 250 cd/m^2
Response time: 13 ms
Contrast ratio: 1.000:1
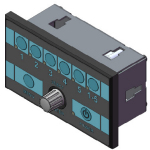Viewing angle: 178°
Type number: GB190-01.MON.01.0001

O'Sean Line - 25.5'' WS

Resolution: 1.920 x 1.200 pixels (WUXGA)
Light intensity: 500 cd/m^2
Response time: 12 ms
Contrast ratio: 800:1
Viewing angle: 178°
Type number: GB255-01.MON.01.0001

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Sideway fixing features for ease of installation.

Alimentation:	115 / 230 VAC
Water proofness:	IP 66 & IP 67
Operating Temp.:	-15/+55°C. +5/131°F
Storage Temp.:	-25/+70°C. -13/158°F
Inputs:	DVI-I
	VGA
	Composite video
	S-Video,
	AC power IEC Inlet & Power out

Designed to be ECDIS approved

Remote control allowing for individual, or all at once, monitors management and setup.

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North Invent history

- The Danish company **North Invent A/S**, was established in 2004 by a trio of well
experienced, high profile, entre-
preneurs, combining a very large
cumulated experience within the
fields of maritime displays, having
had previous key positions among
leading Scandinavian manufacturers.

- From its inception the company has been driven by the challenge of offering state of
the art display solutions, dedicated to the maritime market, while
always bearing the customers, and end-users, in mind. That is why,
for instance, all our monitors are designed following a modular
concept, downsizing our production lead time, allowing for fast
deliveries, and ease of maintenance.

- In 2007 the company moved in a single location and has now at disposal
more than 2.000 Sqm. In a unique location both in-house and outsourced
R&D are conducted, allowing for fast decision and expertise sharing, while
an all step quality check is implemented on the production floor, from
reception to shipping.

Unique expertise

- Our extensive range of rugged monitors can be used as all purpose Signal
Platforms (Radar, Sea Charts, Conning, Supervising) and allow for multiple input
sources and viewing. The stringent vibration tests for approval have been
successfully conducted with monitors mounted on brackets, as used on board, in near
real life situations.
- The sealing method used when assembling the displays behind their impact proof
glass is done in dust reduced rooms, with time proven material, joints and methods
and leaves no uncertainties as for their durability and efficiency in time.
- Furthermore, no monitors leave the factory before having satisfied to an intensive
72hrs burn-in test. Displays with pixel faults are just discarded.

- Today **North Invent A/S** *is among the most
dynamic, and reliable, LCD maritime displays
provider. We can partner with you on any OEM,
Private Label or Retro-fitting projects, matching
with a.o. IEC, MIL-STD, IACS standards.*

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