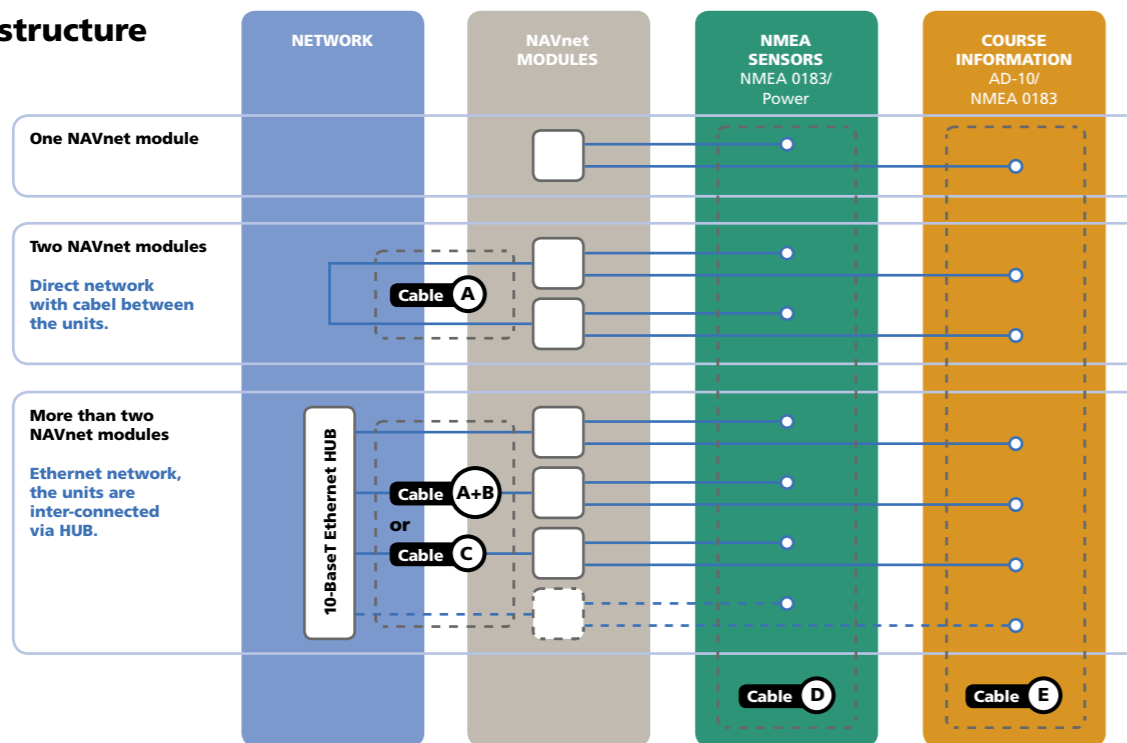


## Network and cables



### System structure



### Cables, network components and accessories

#### SYSTEM CABLES AND NETWORK COMPONENTS

Cable	Description	Item no.
A	NAVnet cable, MJ-MJm, 6 pol., 1 m	2000144421
A	NAVnet cable, MJ-MJm, 6 pol., 5 m	2000144422
A	NAVnet cable, MJ-MJm, 6 pol., 10 m	2000144423
A	NAVnet cable, MJ-MJm, 6 pol., 20 m	2000144424
A	NAVnet cable, MJ-MJm, 6 pol., 30 m	2000144425
B	Adaptor cable, cable A - HUB, MJ - RJ45, 0,5 m	2000144463
C	Direct cable, NAVnet module - HUB, MJ - RJ45, 0,5 m	2000144601
D	NMEA sensor cable, NMEA0183/AD-10, 6 pol., 5 m	2000117603
D	NMEA sensor cable, 7 pol. with power supply, 5 m	2000144418
D	NMEA sensor cable, 7 pol. without power supply, 5 m	2000136730
E	Cable extender, NMEA/AD-10, compass data, 10 M	2000125237
E	NMEA sensor cable, NMEA0183/AD-10, 6 pol., 5 m	2000117603
HUB	10-BaseT Ethernet HUB, incl. NAVnet power plug	2EN108TP00

#### OTHER ACCESSORIES

Description	Item no.
Video cable for eksternal VGA monitor	2008526360
Video interface for NAVnet 10,4" color display	2008523070
FAX-30, cable for connection of FAX-30 to PC, MJ-RJ, 5 m	2000146289
Transducer plug for ETR-6, 10 pol.	2000137548
FAX-5, antenna for FAX-30, 2,6 m whip, 15 m cable	2000075016
Mini RAM memory for storing waypoints, plot etc.	2004371790

Standard radar cables are 10 m long. For all NAVnet radars alternative cables are available in 15, 20 and 30 m.



Navigation  
Communication  
Fishfinding



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Creating Blue Solutions



## NAVnet vx2 System guide

With this guide it is easy for you to choose between the numerous options provided by the NAVnet system.

Use this guide to configure a NAVnet solution that suits your needs now - a NAVnet solution can always be extended.

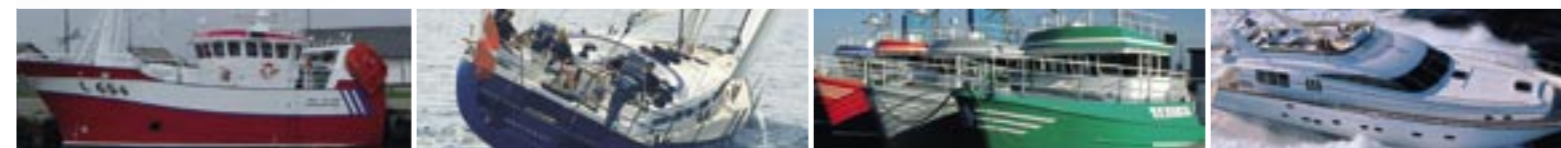
### Multi Function Navigational System in a flexible network

- > Radar
- > GPS
- > Chart plotter
- > NAVnet-MaxSea PC plotter
- > Fish finder
- > Weather fax and Navtex
- > TV, video and DVD
- > Camera surveillance
- > AIS transponder






**NAVnet**  
Maritimt IT netværk  
Ethernet baseret

This NAVnet vx2 System guide gives you a general view of the numerous combinations in the NAVnet vx2 system. Order the complete FURUNO NAVnet vx2 catalogue (Ref. R-188) to see all technical specifications and more detailed descriptions.



[www.furuno.dk](http://www.furuno.dk)

## Five steps to your complete multi function navigation solution

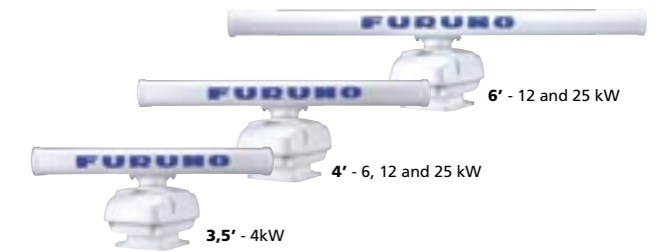
Display, operation and processor	Integrated display		Black Box (BB)
			
<b>Display</b>	<b>TFT LCD Color 10,4"</b>	<b>TFT LCD Color 7"</b>	<b>Display is customers choose</b>
Resolution VxH pixels	640 x 480	480 x 640	640 x 480
Output for separate display	Yes (Separate plug needed)	No	Yes
Input for composite video (camera, TV, video and DVD)	Yes (Video interface needed)	No	Yes
Remote control as standard	Yes	Yes	No
Radar overlay (demand course information)	Yes	Yes	Yes
Description	Intergrated unit with display, operating panel and processor unit	Intergrated unit with display, operating panel and processor unit	Operating unit with separate processor unit and operating panel
NAVnet modules	Connections		
<b>Operating modules</b>			
<b>Chart plotter without radar</b>	GD-1920C	GD-1720C	GD-1920C-BB
<b>Radar and chart plotter</b>			
<b>Radomes</b>			
2,2kW, 0,125 - 24 NM, 46 cm., 24/30 RPM with adjustable rotation speed	M-1824C	M-1724C	M-1824C-BB
4kW, 0,125 - 36 NM, 60 cm., 24 RPM	M-1834C	M-1734C	M-1834C-BB
<b>Open antennas</b>			
4kW, 0,125 - 48 NM, 3,5', 24 RPM	M-1934C		M-1934C-BB
6kW, 0,125 - 64 NM, 4', 24 RPM (48 RPM option)	M-1944C		M-1944C-BB
12kW, 0,125 - 72 NM, 4' or 6', 24 RPM (48 RPM option to 4' ant.) (extra power supply PSU-005)	M-1954C		M-1954C-BB
25kW, 0,125 - 72 NM, 4' or 6', 24 RPM (48 RPM option to 4' ant.) (extra power supply PSU-008)	M-1964C		M-1964C-BB
<b>Function modules</b>			
<b>NAVnet-MaxSea PC plotter</b>			
Software Packages	COMMANDER basis version	*	*
	EXPLORER with 2D/3D module	*	*
	PROFESSIONAL with all modules	*	*
<b>Fish finder (Black box)</b>			
	ETR-6/10N Fish finder (1046674000) Dual freq. 50/200kHz, 0,6 or 1kW	*	*
	ETR-30 Fish finder (1046674100) Dual freq. choose between 28/38/50/88/107/200 kHz, 1, 2 or 3 kW	*	*
<b>Weather fax/Navtex (Black box)</b>			
	FAX-30 Weather fax (1092250000)	*	*
NMEA sensors			
<b>GPS</b>	GP-320B GPS receiver with WAAS/EGNOS (1085230100)	*	*
<b>Navigational echo sounder</b>	Smart Sensor navigation sounder (Several models, ask for item no.)	*	*
<b>Wind and barometer</b>	RO-Wind Plus (1093602000)	*	*
<b>AIS transponder</b>	FA-150 (1029003200)	*	*
Course information			
<b>Satellite compas</b>	SC-50, 3-axis satellite compas (1063900100)	*	*
<b>Heading Sensor</b>	PG-500, Heading Sensor (1063110200)	*	*
Accessories			
<b>Keyboard/display switch</b>	Allows extra keyboard/display unit for NAVnet BB		*
<b>Operating panel</b>	NAVnet BB operating panel, bracket mounting NAVnet BB operating panel, flush mounting		*
<b>Remote control</b>	Extra NAVnet Remote Control	*	*
<b>Camera</b>	NAVnet surveillance camera	Demands video interface	*
<b>Displays</b>	MU-120, 12" NAVnet TFT color display MU-155, 15" NAVnet TFT color display	*	*
<b>Charts (Select type when ordering NAVnet solution)</b>	C-Map NT MAX charts Navionics Gold charts	*	*
<b>Chart reader module</b>	Extra port for charts	*	*
<b>Video interface</b>	Interface for connection to camera, TV, video etc.	*	Standard
<b>Repeater display</b>	RD-30 Repeater display (1086268000)	*	*
<b>Power supply</b>	PSU-005 (1039501500) PSU-008 (1100051300)	Obligatory for M-1954C Obligatory for M-1964C	Obligatory for M-1954C BB Obligatory for M-1964C BB
<b>Mini ARPA (demand course info.)</b>	ARP-11, 10 target Mini ARPA module (1039463200)	*	Only ARPA via network with 10,4"/BB

### NETWORK - SEE THE BACK!

A NAVnet solution works like an IT-network. When your solution consists of more than two NAVnet modules these must be connected via HUB. See more about network and cables on the back.



### Radar antennas



### NAVnet modules

**NAVnet-MaxSea**  
PC plotter integrating with NAVnet. Now you can share charts between PC and NAVnet and operate your radar from the PC. NAVnet-MaxSea can also be utilised with NAVnet solutions older than NAVnet vx2.

**Software Packages**  
**Commander**  
Basic version with all elementary functions (ARPA and AIS as option)  
**Explorer**  
As Commander, but with 2D/3D module  
**Professional**  
Fully extended version with all MaxSea modules

**ETR-6 sounder**  
Dual frequency fish finder, 50/200 kHz with 600/1000W output power. 8 depth ranges up to 1200m.

**FAX-30**  
Weather fax and Navtex receiver. Receives weather info directly on your NAVnet display and/or PC. **FAX-5 antenna needed** (See other accessories).

**ETR-30 sounder**  
Dual freq. with free choice between two freq. among 28/38/50/88/107/200 kHz, output power 1/2/3 kW, selective depth range between 2 and 1500m.

**Transducers for echo sounders** Please contact FURUNO DANMARK AS for more information.

### NMEA sensors

**FA-150 AIS transponder**  
With AIS you can watch maritime traffic within the VHF covering area. AIS is mandatory on larger commercial vessels.

**RO-Wind Plus**  
Wind sensor without mechanical moving parts. Built-in barometer and air temperature.

**SMART sensor - Depth**  
Depth transducer with sounder, speed and temperature.

**GP-320B**  
GPS antenna with WAAS/EGNOS GPS receiver.

### Compasses

**PG-500**  
A reliable and economical solution when you need simple heading information for auto pilot, Mini-ARPA or radar overlay.

**SC-50**  
3-axis satellite compass. The obvious alternative to the Gyro - ultra steady and reliable. The ultimate choice for auto pilot, ARPA etc. Solid state - no mechanical parts.

### Accessories



**RD-30 repeater display**  
RD-30 displays all navigation graphic or numeric - a data organizer.

**MU-120C**  
Splash proof 12" TFT display for outdoor use. Perfect for NAVnet Black Box.  
**MU-155C**  
Splash proof 15" TFT display for outdoor use. When you want the ultimate big picture.

