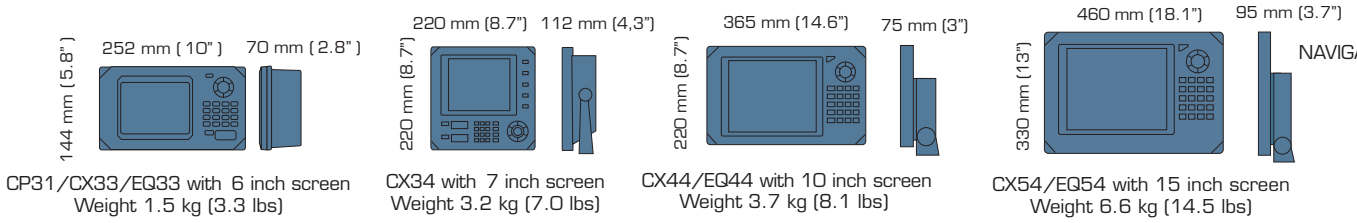


# Specifications. Chartplotters/NavStations/Echosounders

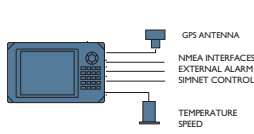


	CP31	CX33	EQ33	CX34/44/54	EQ44/54
Power supply: 12 and 24Vdc (10-32Vdc max)	•	•	•	•	•
Environment: 0 to 50°C, Waterproof USC46CFR and IP55	•	•	•	•	•
Alarm output	•	•	•	•	•
Screen resolution • 320 x 240 pixels •• 640 x 480 pixels	•	•	•	••	••
Casing: Diecast aluminum, watertight connectors	•	•	•	•	•
Manual or auto-sequencing of preselected pages	•	•	•	•	•
Split screen presentation: Up to 4 different presentations on one display				•	•
<b>Chartplotter</b>					
C-MAP NT MAX chart system	•	•		•	
North Up, Head Up, and Nav Up presentation	•	•		•	
True and relative motion	•	•		•	
Dual chart: Two charts in two different scales	•	•		•	
Quick range: Single key access to nine fixed chart ranges	•	•		•	
Set and drift calculations with data from external log and compass	•	•		•	
Tide tables and port information	•	•		•	
Extensive memory with combinations or totals up to 35,000 waypoints, 10,000 waypoints with name, 50,000 trackpoints, 50,000 line sections or 10,000 routes	•	•		•	
Single key and external key to plot event marks	•	•		•	
<b>GPS</b>					
GPS position accuracy: 8 meters	•	•		•	
Speed filter: 10 settings	•	•		•	
Update rate: 1 second interval typical	•	•		•	
Dynamics: Velocity 600 km/h. Acceleration 10m/sec <sup>2</sup> .	•	•		•	
14 channel parallel GPS receiver with Kalman filter	•	•		•	
Antenna types: DGPS: patch and H-field (CX34/44/54), GPS: patch	•	•		•	
SDGPS (Satellite Differential GPS): Position accuracy: 3-7 meters (WAAS & EGNOS)	•	•		•	
<b>Echosounder</b>					
Output power: 2 x 1,000 Watts RMS (8,000WPP). Single or dual frequency (EQ, CX44/54) 600 Watts (2400 WPP) (EQ33, CX33/34)		•	•	•	•
Pulse length: Short, medium, long and automatic		•	•	•	•
Max transmission rate: 10 pings per second (EQ44/54 25 pings per second)		•	•	•	•
Display ranges: 5 to 3,000 m in preset steps, manual and auto mode (EQ/CX33 and CX34: 5 to 1.000m)		•	•	•	•
Quick range, single key access to nine fixed ranges		•	•	•	•
Frequencies: 38/50, 38/200 or 50/200 kHz (EQ/CX33 and CX34 has 50/200 kHz)		•	•	•	•
Automatic/manual shift mode		•	•	•	•
Zoom mode: 1 to 50 meters. Bottom and VRM expansion		•	•	•	•
Alarm: Fish, max and min depth		•	•	•	•
Fish detection: A-Scope and white line discrimination		•	•	•	•
Event marker (plot) and event memory		•	•	•	•
Auto and manual depth range		•	•	•	•
Color threshold and interference filter		•	•	•	•
<b>Radar</b>					
RadarChart overlay				•	
North Up, Head Up and True Motion presentation				•	
Trail and true motion, for heading and speed of moving targets				•	
Synchronized radar and chart image on the same screen				•	
Dual radar: Two radar pictures with individual range settings on the same screen				•	
Off Center mode				•	
Quick range: Single key access to nine fixed range settings				•	
Minimum range and range resolution: 30 meters				•	
Range scales: 0.125- 24NM up to 72NM with 12kW antenna (The CX34 series max 4kW - 48NM)				•	
Bearing accuracy: 1° or better				•	
Plot key function				•	
Guard zone: Alarm when a vessel enters or leaves a specific area				•	
<b>Options</b>					
Simrad DataCard: Download data, as back up, or to share with others	•	•		•	
TL50 Turbo Loader: For external storage of large quantities of data on floppy disks (CX44/54)				•	
Radar antennas: 2 - 12 kW, 1.5 - 6 ft				•	
Dual Station	•	•		•	

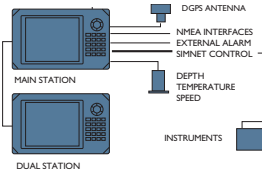
• Standard • Optional



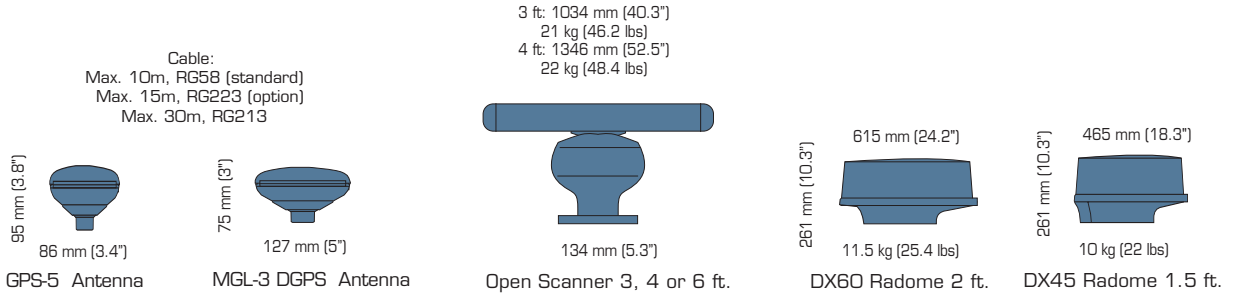
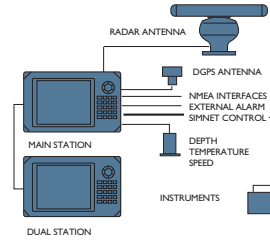
**BASIC CONFIGURATION GPS CHARTPLOTTER**



**EXPANDED CONFIGURATION WITH ECHOSOUNDER**

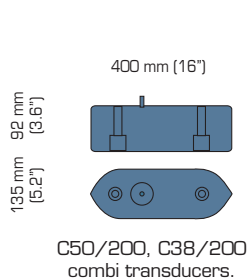


**EXPANDED CONFIGURATION WITH RADAR AND ECHOSOUNDER**



Antenna Characteristics	RB718*	RB717*	RB716A	DX60	DX45
Distance range	96 NM	72 NM	48 NM	36 NM	28 NM
Output power	12 kW	6 kW	4 kW	4 kW	4 kW
Antenna rotation speed	24 or 48 rpm on	24 or 48 rpm on	24 or (48 rpm, 24V DC only)	20 to 50 rpm	20 to 50 rpm
Antenna version/size	Open scanner 4 or 6 ft.	Open scanner 4 or 6 ft.	Open scanner 3 or 4 ft.	Radome 2 ft.	Radome 1.5 ft.
Antenna type	Slotted array	Slotted array	Slotted array	Slotted array	Slotted array
Antenna beam width	H: 1.8° or 1.2° / V: 22°	H: 1.8° or 1.2° / V: 22°	H: 2.5° or 1.8° / V: 22°	H: 3.8° / V: 30°	H: 5.6° / V: 30°
Bearing resolution	within 3.0°	within 3.0°	within 3.0°	within 1°	within 1°
Pulse lengths	0.08- 0.25- 0.6 - 1.0 µs	0.08- 0.25- 0.6 - 1.0 µs	0.08- 0.25- 0.6 - 1.0 µs	70-700 µs	70-700 µs
Receiver noise figure	6.5 dB or less	6.5 dB or less	6.5 dB or less	5.5 dB	5.5 dB
Power consumption (incl. display)	110 W or less	100 W or less	70 W or less	70 W or less	70 W or less
Cable	10, 15, 20, 30, 40m	10, 15, 20, 30, 40m	10, 15, 20, 30, 40m	10, 15, 20, 30, 40m	10, 15, 20, 30, 40m
Ext. Power supply box	RS4052	RS4052	RS4050	NA	NA

\* 24V operation only

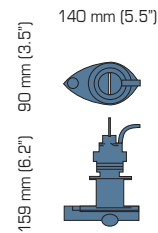


Note: Specifications are subject to change without notice.

Detection ranges: \*

Frequency	Beam	Fish*	Bottom*
38 kHz	13x21°	410m	1800m
50 kHz	10x16°	430m	1500m
200 kHz	7°	280m	400m

\* Single Fish Target Strength: -30db (60 cm cod)  
\* Bottom Back Scattering Strength: -20dB  
\* Simrad transducer C38/200 or C50/200



Combined speed, temperature and depth transducer