

ONWA®

MODEL KP-6299C KP-8299C KP-1299C COLOR LCD GPS PLOTTER SOUNDER

1. High Resolution

- 1) KP-6299C: 5.6 inches Color TFT Display, 640x480 pixels
- 2) KP-8299C: 8.0 inches Color TFT Display, 800x600 pixels
- 3) KP-1299C: 12.1 inches Color TFT Display, 800x600 pixels

2. 8 Color Presentation

3. 50/200 kHz Transceivers, Output Power:

- 1) KP-6299C 300 Watt
- 2) KP-8299C 600 Watt
- 3) KP-1299C 600 Watt

4. Blue, Light Blue, or Black Background Color

5. 8 Range Scales

- 1) KP-6299C, from 0-10m to 0-600m
(Max: 3000ft, 500fa, 600PB)
- 2) KP-8299C, from 0-10m to 0-1000m
(Max: 3000ft, 500fa, 600PB)
- 3) KP-1299C, from 0-10m to 0-1000m
(Max: 3000ft, 500fa, 600PB)

6. Range Offset to 0~100 meters

7. Automatic Range and Gain Selection Mode

8. A-Scope Display for Rapid Fish ID and Detection

9. Multiple Display Modes:

- Single or Dual Frequency
- Bottom Zoom
- Bottom Lock Expansion
- Marker Zoom
- Navigation Data Box
- A-Scope

10. Digital Displays of Speed, Depth, Water Temp, and Position

11. Adjustable Bottom or Fish Alarm

12. Calibration in Feet, Fathoms, Meters and PB

13. Built-in Simulator

14. SD-cards slot for C-Map MAX and user data

15. C-Map MAX and K-Chart Selectable

16. Tide table and Celestial

17. Versatile display mode include

- Plotter Screen
- Plotter+Sounder
- Sounder
- Nav.Data
- Satellite Information
- AIS Display
- Compass Screen
- Wind Screen

18. GOTO track navigation

19. MAP orientation select

20. Proximity waypoints alarms

21. Perspective View

22. MAP Palette

- Normal
- Daylight – exposed to sunlight
- Night – in dark environment
- NOAA – paper chart colors



KP-6299C



KP-8299C



KP-1299C

SPECIFICATION

PLOTTER CHARACTERISTICS

Waypoints/icons	14,000 waypoints with name, symbol, 10 proximity waypoint
Routes	Navigation or Goto Track modes waypoint up to 169 points each, plus MOB and Track
Tracks	21,000 point automatic track log; 10 saved track (up to 2100 track points each) Let you retrace your path in both directions
Alarms	XTE, Anchor drag, arrival, speed, voltage, proximity waypoint and time AIS alarm.
Palette	Normal Daylight exposed to sunlight Night in dark environment NOAA paperchart colors
Tides	Tide data
Projection	Mercator projection
Position format	Lat/lon
Basemap	Built-in Onwa K-Chart
External Map	SD Cards slot for C-Map MAX
User data storage	Internal backup of user settings, or external SD-card
Plot Interval	1s to 99h or 0.01 nm to 9.99nm
Plotting scales	0.01nm to 1,000nm
Nav Data	Inputs: \$-DRT \$-DPT \$-GGA \$-GLL \$-GSA \$-GSV, \$-HDG \$-HDM \$-HDT \$-MTW, \$-RMB \$-RMC, \$-VTG, \$-ZDA, \$-ZDA, \$-VWR, \$-VMT, \$-MWD, \$-VWV Outputs: \$-AAM, \$-APB, \$-BOD, \$-BWC, \$-GGA, \$-GLL, \$-RMB, \$-RMC, \$-VTG, \$-XTE, \$-ZDA, \$-DBT, \$-DPT \$-WPL, \$-ZDL, \$-ZTG Outputs for autopilot: \$-AAM, \$-APB, \$-BOD, \$-VTG, \$-DBT, \$-DPT
Perspective View	On/off
Celestial	Sunrise/Sunset Moonrise/Moonset

Power Supply

- 1) KP-6299C: 10.5 to 35VDC, current drain<1.0A at 12V
- 2) KP-8299C/1299C: 10.5 to 35VDC, current drain<2.5A at 12V

Physical

Size	1) KP-6299C: 224mm(H) X 151mm(W) X 89mm(D) 2) KP-8299C: 290mm(H) X 195.5mm(W) X 93.5mm(D) 3) KP-1299C: 364mm(H) X 268mm(W) X 106mm(D)
Weight	1) KP-6299C: 0.9kg 2) KP-8299C: 2.43kg 3) KP-1299C: 3.95kg
Display	1) KP-6299C: 5.6 inches Color TFT Display, 640x480 pixels 2) KP-8299C: 8.0 inches Color TFT Display, 800x600 pixels 3) KP-1299C: 12.1 inches Color TFT Display, 800x600 pixels
Waterproofing	Display unit: IPX5 Antenna unit: IPX6
Temperature range	Display unit: -15°C to +55°C Antenna unit: -25°C to +70°C

EQUIPMENT LIST

- Standard
1. Display unit
 2. Antenna unit with 10m cable
 3. Transducer
 4. Operator manual
 5. Installation materials and standard spare parts

GPS RECEIVER CHARACTERISTICS

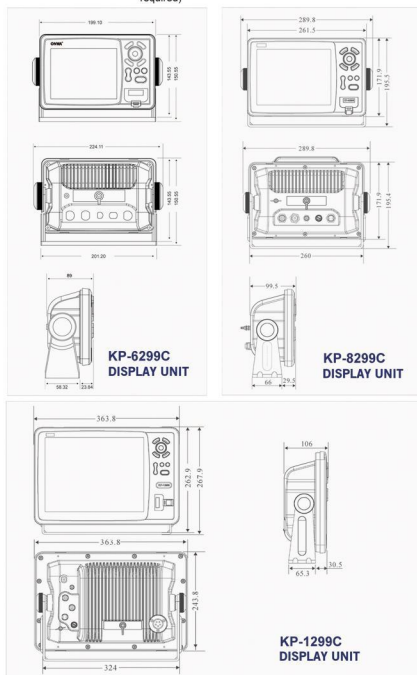
Receiver	50 parallel channel GPS receiver continuously Tracks and uses up to 50 satellites to compute and update your position
Acquisition times	Cold start: 27 seconds average Warm start: 27 seconds average Hot start: 1 seconds average
Update rate	1/second, continuous
Accuracy	Position: $\pm 2.5\text{ meters}$(95%) without S/A Velocity: 0.1 Meter/sec without S/A Time: $\pm 10\text{ns}$ synchronized to GPS time
Dynamics	Altitude: 50,000m Max Velocity: 500 m/s Acceleration: 4g Max
Datum	WGS 84 & Others
Interfaces	NMEA 0183 input, RS232 output
Antenna	KA07

AIS interface

Data input:	NMEA 0183, RS232
Baud rate:	38,400

ECHO SOUNDER

Echo Color	8 colors (including background color) according to echo intensity. The background color is selectable from blue, light blue, white and black.
Basic Range	Meters 10/20/40/80/150/300/500/1000 (for KP-6299C, up to 1000m) Feet 30/60/120/250/500/1000/1600/3000 (for KP-6299C, up to 1500ft) Fathoms 5/10/20/40/80/160/250/500 (for KP-6299C, up to 200fa) Passi/Braza 61/120/250/1000/2000/3000/600 (for KP-6299C, up to 300fB) The basic ranges can be changed on the system menu.
Range Shift	Up to 1000 meters (3000 feet, 500fathoms, 600 passi/braza)
Zoom Range	Times 2, 3, 4 and 5 ranges
Bottom Lock Expansion	5/10meters, 10/20feet, 2/5fathoms, 2/5passi/braza
Range	
Auto Mode	Automatic adjustment of range and gain
Display Mode	High Frequency (200K), Low Frequency (50K), Dual (200K and 50K 1/2display on each), Zoom (200K and 50K zoom) and A-scope Display
Zoom Display	Marker Zoom, Bottom Zoom and Bottom-lock Expansion
Display Advance Speed	Lines/TX Freeze, 1/8, 1/4, 1/2, 1/1, 2/1
TX Frequency	50 and 200kHz (alternately transmitted)
Power Output	1) KP-6299C: 300W 2) KP-8299C/1299C: 600W
Pulse-length/TX rate	
Display End Depth (m)	5 10 20 40 80 150 200 300 600 1000
Pulse-Length (ms)	0.15 0.15 0.15 0.25 0.4 0.7 1.5 1.6 2.7 3.6
TX Rate (Pulse/min)	750 750 750 375 187 107 50 50 30 21
Interference Rejector	Rejects unwanted signals by comparing last and present echoes in strength.
Alarm	Fish and Bottom alarms, Temperature alarm (sensor required)



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