

GPS / DGPS / Navigator

GPS-915



Features

- ▶ Bright 4.3-inch high-resolution Color LCD
- Quick Entry numeric keypad
- ► Waypoint memory 10,000 points
- ▶ Route memory 100 x 50 points
- ► Ship's trail point 3,000
- ► Total 6 display modes available
- ▶ Equipped with two NMEA-0183 data ports

< Screen Image >



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	Xog(por treat o	- Company	V suprane	168.9°
	35° 38. 0500N	139	42. 7500E	
		Plo	tter	





Navigation Graph

Highway

SPECIFICATIONS

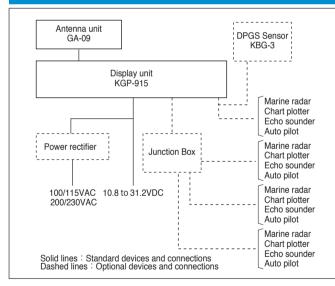
Receiving frequency Receiving channel Receiving code Sensitivity Better than −148 dBm Accuracy Position SOG 0.1 kt rms HDOP≦4 COG Display size and type Nav data1, Nav data2, Nav data3, Navigation Graph, Highway, Plotter, POB (People Over Board) Plotting interval Plotting capacity Position data display Navigational display Navigational display Receiving to waypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Navigorito compensation Navigorito and time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Navigorito compensation Navigorito compensation Nagnetic compensation Auto or Manual Name CoPS conversion, Loran A LOPs conversion, Decca LOPs conversion, Navigan and name (up to 10 letters), Selection of measuring unit (rm, sn, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection NMEA 0183 Ver.2.0/3.0/4.1 CIF				
Receiving channel 72 channel parallel Receiving code C/A code Sensitivity Better than −148 dBm Accuracy Position 4.2 m 2drms(GNSS), 3.3 m 2drms(DGNSS) MDOP≦4 COG ± 1.0° Display size and type 4.3 inch color LCD (480×272, effective picture area: 95.04 x 53.86 mm) Display mode Nav data2, Nav data3, Navgation Graph, Highway, Plotter, POB (People Over Board) Track display Display range 0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 nm (sm, km) Usable ground Within 80° in latitude Plotting interval 5, 10, 20, 30 seconds, 1 minutes, 0.01, 0.05, 0.1, 0.5, 1 nm (sm, km) Position data display Latitude/longitude in increments of 0.0001 minute, Converted Loran C LOPs, Converted Decca LOPs, Navigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points Waypoint memory 1,000 points (9,000 + Event 1,000) Rotte memory 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch	Model	KGP-915		
Receiving code C/A code Sensitivity Better than −148 dBm Accuracy Position 4.2 m 2drms(GNSS), 3.3 m 2drms(DGNSS)	Receiving frequency	1575.42 MHz±1MHz, 1602MHz±4MHz		
Sensitivity Accuracy Position Bisplay size and type Accuracy Accuracy Accuracy Accuracy Accuracy Bisplay size and type Accuracy Accuracy Accuracy Accuracy Accuracy Bisplay size and type Accuracy Accuracy Accuracy Accuracy Accuracy Bisplay range Accuracy Bisplay range Bisplay	Receiving channel	72 channel parallel		
Accuracy Position 4.2 m 2drms(GNSS), 3.3 m 2drms(DGNSS) SOG 0.1 kt rms COG ± 1.0° Display size and type 4.3 inch color LCD (480×272, effective picture area: 95.04 x 53.86 mm) Display mode Nav data1, Nav data2, Nav data3, Navigation Graph, Highway, Plotter, POB (People Over Board) Track display Display range U.0.25, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 nm (sm, km) Plotting capacity Within 80° in latitude Position data display Display and U.000 points Position data display Latitude/longitude in increments of 0.0001 minute, Converted Loran C LOPs, Converted Loran A LOPs, Converted Decca LOPs, Navigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points Waypoint memory 10,000 points (9,000 + Event 1,000) Route memory 10,000 points (9,000 + Event 1,000) Route memory 10,000 points (9,000 + Event 1,000) Route memory 10,000 points (9,000 + Event 1,000) Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Latitude / longitude, LOPs, Datum Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External)	Receiving code	C/A code		
SOG D.1 kt rms	Sensitivity	Better than -148 dBm		
HDOP≦4 COG ± 1.0° Display size and type 4.3 inch color LCD (480×272, effective picture area: 95.04 x 53.86 mm) Display mode Nav data1, Nav data2, Navigation Graph, Highway, Plotter, POB (People Over Board) Track display Display range 0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 nm (sm, km) Usable ground Within 80° in latitude Plotting interval Plotting capacity 3,000 points Position data display Position data display Position data display Ravigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Auto or Manual Parameters Latitude / longitude, LOPs, Datum Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DAT A1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS) , NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Accuracy Position	4.2 m 2drms(GNSS), 3.3 m 2drms(DGNSS)		
Display size and type 4.3 inch color LCD (480×272, effective picture area: 95.04 x 53.86 mm) Nav data1, Nav data2, Nav data3, Navigation Graph, Highway, Plotter, POB (People Over Board) Track display Display range 0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 nm (sm, km) Within 80° in latitude Plotting capacity Position data display Navigational display Navigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points Waypoint memory 10,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Proximity, Cross track error, CDI, Anchor watch Position compensation Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection) Output data format and sentences (DAT A1/2 connector) Input data format AND A18 Ver.2.0 / 3.0 / 4.1 CIF (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External)	SOG	0.1 kt rms		
Display mode Nav data1, Nav data2, Nav data3, Navigation Graph, Highway, Plotter, POB (People Over Board) Track display	HDOP≦4 COG	± 1.0°		
Track display Display range Usable ground Within 80° in latitude Plotting interval 5, 10, 20, 30 seconds, 1 minutes, 0.01, 0.05, 0.1, 0.5, 1 nm (sm, km) Position data display Latitude/longitude in increments of 0.0001 minute, Converted Loran C LOPs, Converted Loran A LOPs, Converted Decca LOPs, Navigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellile status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points (9,000 + Event 1,000) Route memory 10,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Position compensation Latitude / Iongitude, LOPs, Datum Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (mn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External)	Display size and type	4.3 inch color LCD (480×272, effective picture area: 95.04 x 53.86 mm)		
Usable ground Piotting interval 5, 10, 20, 30 seconds, 1 minutes, 0.01, 0.05, 0.1, 0.5, 1 nm (sm, km) Piotting capacity 3,000 points	Display mode	Nav data1, Nav data2, Nav data3, Navigation Graph, Highway, Plotter, POB (People Over Board)		
Plotting interval Plotting capacity 3,000 points Position data display Latitude/longitude in increments of 0.0001 minute, Converted Loran C LOPs, Converted Loran A LOPs, Converted Decca LOPs, Navigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Latitude / longitude, LOPs, Datum Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection) Output data format and sentences (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External)	Track display Display range	0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 nm (sm, km)		
Plotting capacity Position data display Position data display Latitude/longitude in increments of 0.0001 minute, Converted Loran C LOPs, Converted Loran A LOPs, Converted Decca LOPs, Stack Enter Converted Loran C LOPs, Converted Decca LOPs, Converted Decca LOPs, Converted Loran C LOPs, Converted Decca LOPs, Converted Loran C LOPs, Converted Loran C LOPs, Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points 1,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Usable ground	Within 80° in latitude		
Position data display Latitude/longitude in increments of 0.0001 minute, Converted Loran C LOPs, Converted Loran A LOPs, Converted Decca LOPs, Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 10,000 points Waypoint memory 10,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Latitude / longitude, LOPs, Datum Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (mm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS) , NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Plotting interval	5, 10, 20, 30 seconds, 1 minutes, 0.01, 0.05, 0.1, 0.5, 1 nm (sm, km)		
Converted Loran A LOPs, Converted Decca LOPs, Navigational display Speed, Course, Distance / Bearing to waypoint, Cross track error, Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satelille status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points Waypoint memory 10,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Proximity, Cross track error, CDI, Anchor watch Position compensation Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (mn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Plotting capacity			
Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status, Distance/Bearing betweentwo points, POB display Instant (event) memory 1,000 points Waypoint memory 10,000 points (9,000 + Event 1,000) Route memory 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) Input data format RTCM SC104 Ver.20 (DGNSS), NMEA 0183 (GNSS source: External)				
Waypoint memory 10,000 points (9,000 + Event 1,000) 100 routes reverse trail possible Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nn, sn, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection) Output data format and sentences (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) Input data format Power supply 10.8 to 31.2 V DC	Navigational display	Time to go towaypoint, Total time to go and distance on route, DOP value, Present time (UTC or LTC), Satellite status, Beacon receiving status,		
Route memory 100 routes reverse trail possible	Instant (event) memory	1,000 points		
Alarms Proximity, Cross track error, CDI, Anchor watch Position compensation Latitude / longitude, LOPs, Datum Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (mn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS) , NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Waypoint memory	10,000 points (9,000 + Event 1,000)		
Position compensation Magnetic compensation Auto or Manual Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (mm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Route memory	100 routes reverse trail possible		
Magnetic compensation Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (mn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) Input data format Power supply Auto or Manual Loran C LOPs conversion, Decca LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nn, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection) NIMEA 0183 Ver.2.0 / 3.0 / 4.1 CIF (AMA, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) Input data format RTCM SC104 Ver.2.0 (DGNSS) , NMEA 0183 (GNSS source: External)	Alarms	Proximity, Cross track error, CDI, Anchor watch		
Parameters Loran C LOPs conversion, Loran A LOPs conversion, Decca LOPs conversion, Memory of waypoints and name (up to 10 letters). Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (AM, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, (IDATA1/2 connector) Input data format Prower supply RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External)	Position compensation	Latitude / longitude, LOPs, Datum		
Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic selection), Beacon stations selection Output data format and sentences (DATA1/2 connector) Input data format Power supply MEMORY APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA) RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External) 10.8 to 31.2 V DC	Magnetic compensation	Auto or Manual		
and sentences (AAM, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, (DATA1/2 connector) Input data format RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External) Power supply 10.8 to 31.2 V DC	Parameters	Memory of waypoints and name (up to 10 letters), Selection of measuring unit (nm, sm, km), Averaging (smooth) factor, Position mode (2D or 3D automatic		
Power supply 10.8 to 31.2 V DC	and sentences	(AAM, APB, BOD, BWC, DCN, DTM, GGA, GLC, GLL, GSA, GSV, MSS, RMB, RMC, RTE, VTG, WPL, XTE, ZDA)		
	Input data format	RTCM SC104 Ver.2.0 (DGNSS), NMEA 0183 (GNSS source: External)		
Power consumption 4.5 W or less (24V DC)	Power supply	10.8 to 31.2 V DC		
	Power consumption	4.5 W or less (24V DC)		

Note: Accuracy is subject to change in accordance with DoD civil GNSS user policy.

Environmental

	Display unit:- 15 °C to + 55 °C
	Antenna unit: - 25 °C to + 55°C
Water protection	Display unit: IPX4
	Antenna unit: IPX6

CONNECTIONS



EQUIPMENT LIST

Standard Equipment

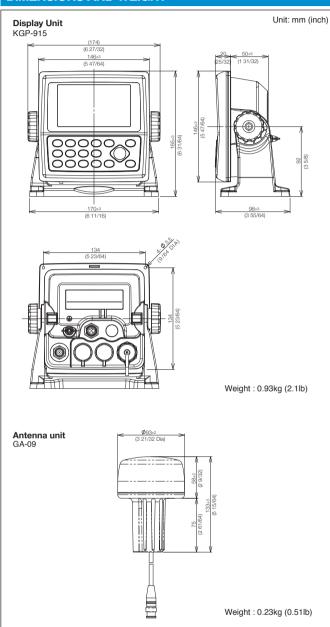
Display unit KGP-915		With mounting bracket and hard cover
Antenna unit GA-09[10M]		with 10m antenna cable and BNC connector
	GA-09[15M]	with 15m antenna cable and BNC connector
	GA-09[0.5M]	with 0.5m antenna cable for cable extension 30m / 60m and N-P connector
DC power cable	CW-276-2M	With 5-pin connector and one end plain (2m)
Operation Manual, Installation material		

Operation Manual, Installation material

Options

DGPS sensor, Connecting cable, Junction box, Power rectifier, AC power cable, Connector, Antenna cable extension kit, Conversion cable

DIMENSIONS AND WEIGHT



• Design and specifications are subject to change without notice.





To ensure proper and safe use of the equipment, please carefully read and follow the instructions in the Operation Manual.

For details, please contact: