

# **JRC** DGPS RECEIVER

## **DGPS 212**



- **Internal Differential Beacon Receiver**
- **12-Channel Parallel for simultaneous reception of 12 satellites.**
- **Quick Position Fixing**
- **NMEA0183 Output**
- **PPS Signal Output (Precise Clock Signal)**



*Japan Radio Co., Ltd.*

## FEATURES

### Internal Differential Beacon Receiver

The DGPS 212 includes a Beacon Receiver and a GPS Receiver. By using DGPS you can achieve true DGPS accuracy.

### 12-Channel Parallel for Receiving 12 Satellites Simultaneously

The DGPS 212 is designed to simultaneously receive signals from 12 orbiting satellites, ensuring the most accurate positioning.

### Quick Position Fixing

Typically 45 seconds for first position fixing without GPS almanac data.

### Conversion to NMEA0183 Output

Since the NMEA0183 output data is changeable between version 1.5 and version 2.1, you can connect the DGPS 212 to various Marine Electronics Equipment such as Marine Radars, Fishfinders, Plotters, or others.

### PPS Signal Output

The DGPS 212 outputs a pulse per second which coincides with UTC second precisely. It can be used as a precise clock.

## SPECIFICATIONS

### GPS Specifications

Receiver type	: Multichannel (12-CH) all-in-view
Frequency	: 1575.42MHz $\pm$ 1MHz (C/A code)
Sensitivity	: -130dBm for acquisition, -133dBm for tracking
Accuracy	: 15mRMS(C/A code, HDOP<4) 5m RMS when DGPS corrected
Time to first fix	: Typically 45 seconds (cold start fix) Typically 30 seconds (warm start fix)
Position update	: Normally every 1 second

### Beacon Specifications

Receiving frequency	: 283.5kHz to 325kHz
Dynamic range	: More than 90dB
Demodulation	: MSK (Minimum Shift Keying)
Data bit rate	: 50,100,200bps

### General

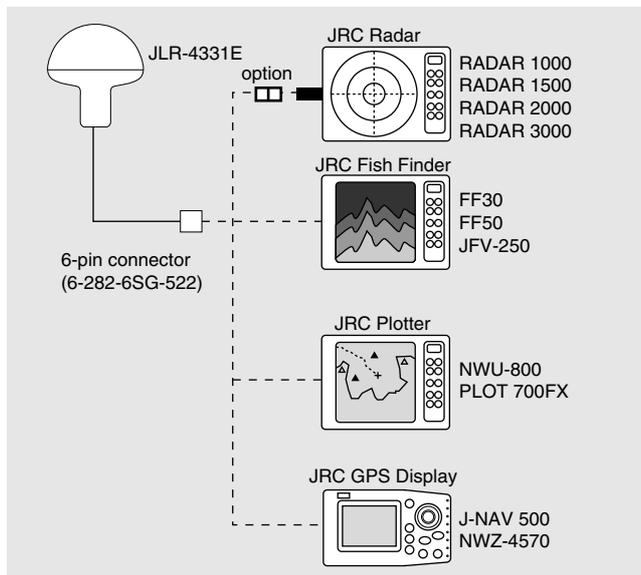
Data output	: NMEA0183 ver.1.5 or 2.1 selectable <b>ver1.5</b> GGA, RMC, GLL, VTG, PJRC DGP0, PJRC DGP1, PJRC DGP2 <b>ver2.1</b> GGA, RMC, GLL, VTG, GSV, GSA, PJRC DGP3, DTM, MSS
PPS signal output	: positive pulse, 15 $\mu$ sec width
Geodetic datum	: 46 (WGS-84, WGS-72, Japan, America, Canada/Alaska, Europe, Australia, England, NAD-83, other 37 selectable)
Input voltage (Power Consumption)	: 10.8~16VDC (less than 5W)
Data cable	: 6-core cable, 15m
Operating temperature	: -25°C to 55°C
Water proof	: USCG CFR-46/IEC60945

## COMPONENTS

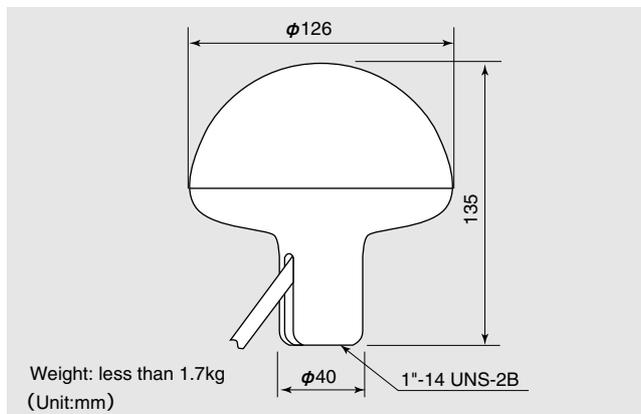
No.	Name	Type	Q'ty	Remarks
1	DGPS Receiver	JLR-4331E	1	include 15m cable
2	Instruction manual		1	

●Option : 15m Extension Cable CFQ-8773

## SYSTEM CONFIGURATION



## OUTLINE DRAWING



●Specifications subject to change without notice.

**Caution**  
Before attempting to operate this unit, read the instruction manual thoroughly to correctly and safely operate the unit.

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Since 1915

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