JLR-41
GNSS Compass

JRC Europe

- High-accuracy positioning and heading data
- Support multi-GNSS sensor
- Spoofing / jamming detection function available
- Supports rolling, pitching, rate of turn and heaving measurements
- IMO type-approved Transmitting Heading Device (THD) and Satellite Positioning System (GPS)
- Excellent visibility and operability with 6.5-inch high-brightness color touch panel LCD

RMS

Category

All types of ships

Yachting

Deepsea

Workboats

Fishery

jrc-world.com

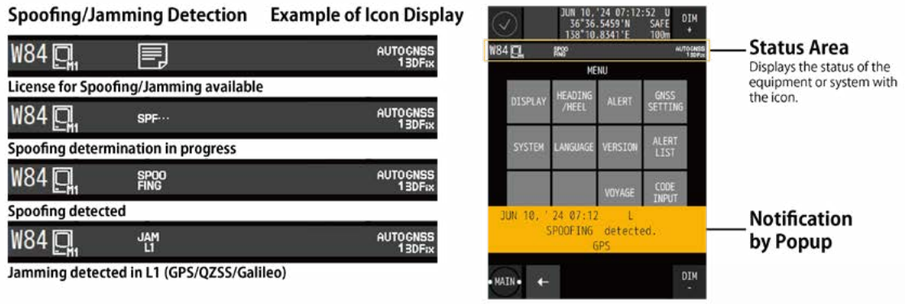
Features

The GNSS Compass JLR-41 is a heading sensor that uses GNSS (Global Navigation Satellite System) to determine the ship's heading. The Sensor is more accurate and smaller than our previous JLR-21 sensor.

- High-accuracy and stability
- Spoofing/jamming detection function
- High-reliability by the multi-GNSS receivers (GPS/Galileo/GLONASS/BeiDou/SBAS/QZSS)
- High-visibility 6.5-inch large color LCD
- Provided with many graphic display modes
- Enhanced attitude measurement functions (rolling, pitching, heaving)
- Short static period (standard 2 minutes or less)
- Improve operability by touch panel and menus that are easy to navigate
- Easy and user friendly interface

Spoofing/Jamming Detection Function

The new GNSS Compass JLR-41 has a spoofing/jamming detection feature[1]. When spoofing/jamming is detected, it notifies the user with a pop-up, icon, and buzzer. This can contribute to safe and secure navigation.



Multi-GNSS Sensor

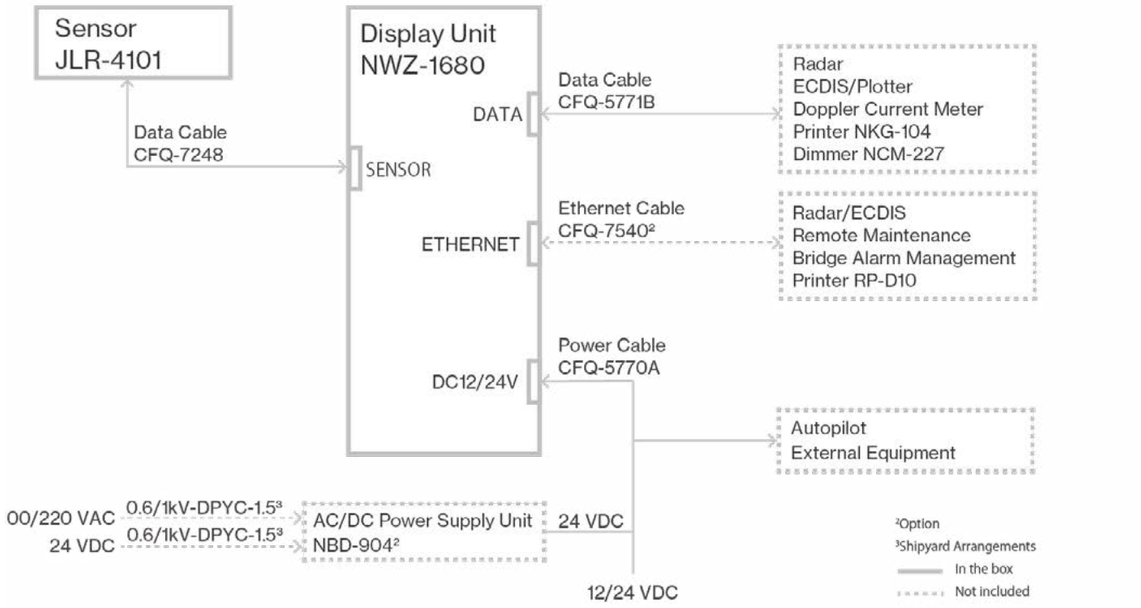
The newly designed multi-GNSS sensor can simultaneously receive multiple GNSS constellations data, including GPS, Galileo, GLONASS, BeiDou and QZSS, enabling highly accurate positioning without the use of beacons or SBAS, improving orientation performance.

6.5-inch Large Color LCD

The new GNSS Compass JLR-41 combined with our trusted 6.5-inch color touch panel display will providing you with the comfort of an intuitive operational approach.

[1] A separate license is required to enable the spoofing/jamming detection function.

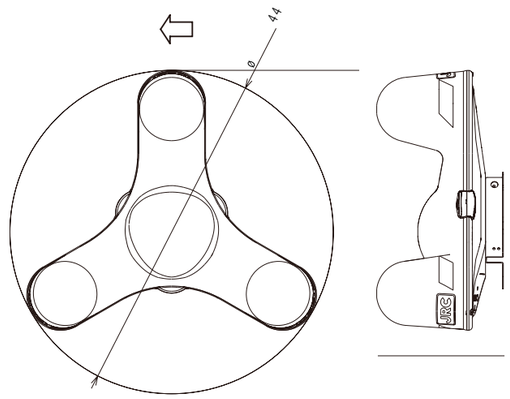
System diagram

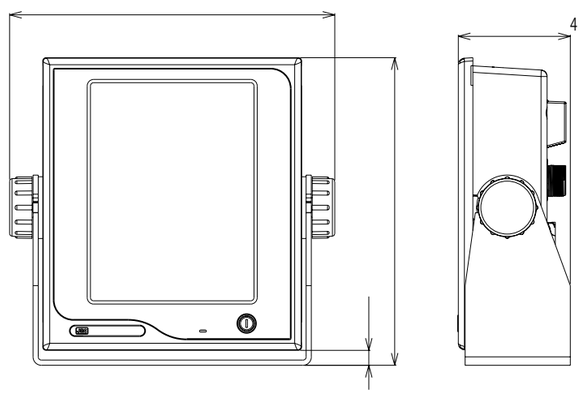


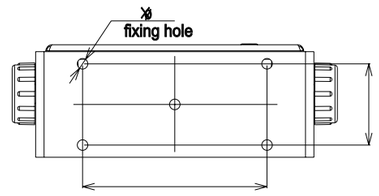
Tech Specs

Sensor
JLR-4101
Mass: Approx. 5.3 kg (11.67 lbs)

Display Unit
NWZ-1680
Mass: Approx. 1.8 kg (3.97 lbs)
*including Bracket







Specifications

Sensor	JLR-4101
Receiver System	GPS/Galileo/GLONASS/BeiDou/SBAS/QZSS
Receiver Type	GPS+QZSS: 15 ch, SBAS: 1 ch, Galileo+GLONASS or Galileo+BeiDou: 10 ch
Receiving Frequency	1575.42 MHz (GPS/Galileo/SBAS/QZSS), 1598.063-1605.375 MHz (GLONASS), 1561.098 MHz (BeiDou)
Course Accuracy	0.25° RMS
Attitude Accuracy (Roll)	0.4° RMS
Attitude Accuracy (Pitch)	0.4° RMS
Attitude Accuracy (Heaving)	5 cm RMS
Course Resolution	0.1°/0.01°
Speed Resolution	0.1 kn/0.01 kn
Attitude Resolution	0.1°
Tracking Rate of Turn	45°/sec
Start-up Time	Less than 2 minutes (warm start fix, typically 30 seconds)
SBAS Receiver	WAAS, MSAS, EGNOS
Positional Accuracy	Multi-GNSS (PPP positioning): 1.8 m (2DRMS) (HDOP ≦ 4 SA OFF), multi-GNSS (non-PPP positioning): 4 m (2DRMS), DGPS: 4 m (2DRMS), SBAS: 4 m (2DRMS), GPS or GPS+QZSS: 5 m (2DRMS), GLONASS: 10 m (2DRMS), Galileo: 6 m (2DRMS), BeiDou: 10 m (2DRMS)
Spoofing/Jamming	Can be detected (license require)
Display	**NWZ-1680**
Display Unit	6.5-inch TFT color touch panel LCD, 640x480 dots (VGA)/Brightness: 800 cd/m²
Display Modes	Heading, navigation information, plot, analog, highway, satellite information, waypoint information, beacon text, navigation aid
Power	12/24 VDC (+30 %, -10 %)
Power Consumption	Less than 14 W (including sensor)
Interface	
Port	IEC 61162-1: (input) 1 port, (output) 2 ports IEC 61162-2: (output) 1 port LAN (IEC 61162-450): 1 port Sensor through (IEC 61162-1): (output) 2 ports Dry contact: (input) 1 port, (output) 3 ports
NMEA 0183 Version	Ver 1.5/2.1/2.3/4.0
NMEA 0183 Input Sentence	ACK, ACN, DDC, HBT, POS
NMEA 0183 Output Sentence	AGL, ALC, ALF, ALR, ARC, DDC, DTM, GBS, GGA, GLL, GNS, GRS, GSA, GST, GSV, HBT, HDT, HRM, MSS, RMC, POS, ROT, THS, VTG, ZDA
Environmental Conditions	
Operating Temperature	Sensor: -25 to +55 ℃ , Display Unit: -15 to +55 ℃
Storage Temperature	Sensor: -25 to +70 ℃ , Display Unit: -25 to +70 ℃
Degree of Protection	Sensor: IP56, Display Unit: IP56

In the Box	
Sensor	JLR-4101
Display Unit	NWZ-1680
Power Cable	CFQ-5770A
Data Cable	CFQ-7248
Data Cable	CFQ-5771B
Instruction Manual	English: P00011567
Bridge Card	English: P00022759

Option			
Data Cable (30 m)	CFQ7248-30	Bracket	MPBX50347
Extension Cable (10 m)	CFQ7249-10	Select Switch	NCZ-777
Extension Cable (20 m)	CFQ-7249	Select Switch	NCZ-1537B
Junction Box	NQE-7720	Junction Box	CQD-10
Beacon Connecting Cable	CFQ-7250	Output Buffer	NQA-4351
Installation Trestle	P00004089	Printer	NKG-104
Bird Repellent Rod	P00015258	Printer	RP-D10
Power Cable	CFQ-5770D	External Dimmer Unit	NCM-227
Data Cable (10 m)	CFQ-5771D	AC/DC Power Supply Unit	NBD-904
Ethernet Cable (15 m)	CFQ-7540	Conversion Cable	P00014414
Spoofing/Jamming detection license	G-024723		

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