



# VTS RADAR

## JPL-600ER SERIES

JRC JPL-600ER series Radar is developed/ designed to comply with radar ATA/ARPA performance standards specified by IALA V-128, and has enhancement of the radar performance, user friendly operation and visibility.

### Performance Features:

- ◆ Compliance with IMO specification
- ◆ SXGA LCD (NWZ-167) or PC Monitor
- ◆ Easy Operation with trackball
- ◆ Chart overlay with ERC/C-Map
- ◆ ARPA (Automatic Radar Plotting Aid)
- ◆ RADAR Alarm by Polygon Area
- ◆ Distance Measurement
- ◆ Azimuth Sector Blanking
- ◆ ARPA (Automatic RADAR Plotting Aid) - Option
- ◆ AIS Integrated Display - Option



Processor Unit



AIS Base Station (Option)



*Japan Radio Co., Ltd.*

**JPL-600ER  
Radar Display  
Image**



**JPL-600ER Series RADAR Specifications**

| Model                         |  | JPL-600ER1-6  | JPL-600ER2-7  | JPL-600ER2-9      |
|-------------------------------|--|---|---|-------------------|
| Display Format                |  | Raster Scan PPI Format  |   |                   |
| Range Scale                   |  | 0.125 / 0.25 / 0.5 / 0.75 / 1.5 / 3 / 6 / 12 / 24 / 48 / 96nm                                   |   |                   |
| Scanner                       | Model  | NKE-600F1T  | NKE-600E1T  | NKE-600D1T        |
|                               | Antenna Length                               | 6-feet  | 7-feet  | 9-feet            |
|                               | Transmitting Power                           | 10kW  | 25kW  |                   |
|                               | Transmitting Frequency                       | 9410 ± 30MHz  |   |                   |
|                               | Beam Width (-3dB width)                      | H : 1.2°, V : 20°   | H : 1.0°, V : 20°   | H : 0.8°, V : 20° |
|                               | Rotation Speed                               | Approx 27rpm  |   | Approx 24 rpm     |
|                               | Pulse Width                                  | 0.08 μs / 2250Hz,<br>0.25 μs / 1700Hz,<br>0.5 μs / 1200Hz,<br>0.8 μs / 750Hz,<br>1.0 μs / 650Hz | 0.07 μs / 2200Hz,<br>0.2 μs / 2200Hz,<br>0.4 μs / 1400Hz,<br>0.8 μs / 750Hz,<br>1.0 μs / 650Hz,<br>1.2 μs / 510Hz |                   |
|                               | Transmitter/ Receiver Switching              | Circulator + Diode Limiter  |   |                   |
|                               | Frequency Conversion                         | Microwave IC (Mic)  |   |                   |
|                               | Tuning                                       | Automatic   |   |                   |
| Environment                   |  | Temperature : -25~+55°C, Humidity : 93% @ +40°C   |   |                   |
| Control Unit<br>NCM-836       | Processing Unit                              | Model   | NDC-1376  |                   |
|                               |  | Screen Display  | North-up / Head-up  |                   |
|                               |  | Motion Mode   | True Motion   |                   |
|                               |  | EBL   | 2-Lines/Bearing : 000.0-359.9° (4-digit)  |                   |
|                               |  | VRM   | 2-markers/Scale : 0.000-96.0NM (4-digit)  |                   |
|                               | Echo Trails                                  | off / 15sec. / 30 sec. / 1min. / 3min. / 6min. / 10min. / 15min. / 30min. / 60min. / continuous |   |                   |
|                               | MAP Display                                  | JRC/ERC/C-MAP NT+   |   |                   |
| Keyboard Unit                 | Model  | NCE-5085  |   |                   |
|                               | Installation Cable                           | 5m (between the Processor and the Keyboard Unit)  |   |                   |
| LCD Monitor                   | Model  | NWZ-167   |   |                   |
|                               | Display Size                                 | 18.1inches  |   |                   |
|                               | Resolution                                   | Color 1280x1024 dot (SXGA)  |   |                   |
|                               | Effective Diameter                           | 250mm (with PPI Mask)   |   |                   |
| Installation Cable            |  | 5m (between the Processor and the Display Unit)   |   |                   |
| Environment                   |  | Temperature : -15~+55°C, Humidity : 93% @ +40°C, Water-Proof : IPX2                             |   |                   |
| Installation Cable            |  | CFQ-6912-20 (Standard 20m)  |   |                   |
| Input Voltage (Voltage range) |  | DC24V (DC21.6~31.2V)  |   |                   |
| Power Consumption             |  | Average 150W, Maximum 300W  | Average 200W, Maximum 400W  |                   |
| Option                        | NSK Unit                                     | NCT-76 (built-in Processor Unit)  |   |                   |
|                               | ARPA Unit-Professional version (100 targets) | NCA-891 (built-in Processor Unit)   |   |                   |
|                               | Performance Monitor                          | NJU-82  |   |                   |
|                               | AIS Interface Unit                           | NQA-2200 (built-in Processor Unit)  |   |                   |
|                               | Plotting Function Unit                       | NDB-35 (built-in Processor Unit)  |   |                   |
|                               | AC Rectifier                                 | NBA-3308 (AC100 / 110 / 115 / 200 / 220 / 230V)   |   |                   |

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