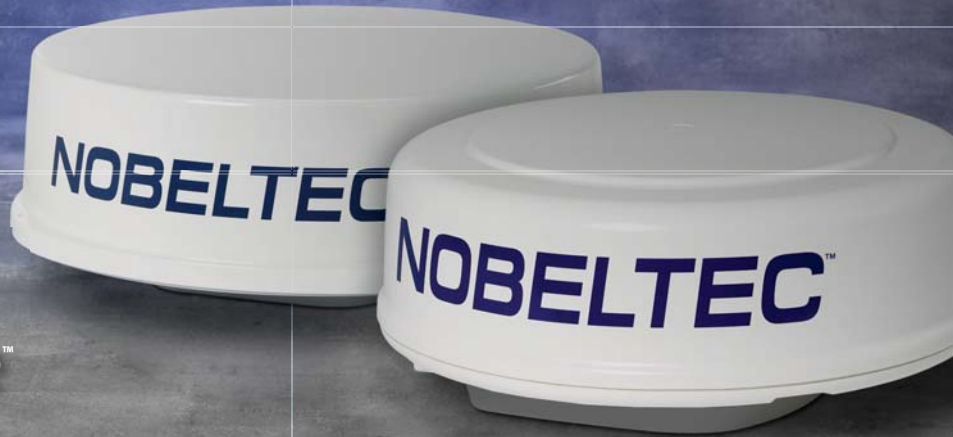


Higher Resolution...
Greater Confidence™



Nobeltec® InSight™ Radar2 (IR2)

The Nobeltec 2kW and 4kW radars* add the value of radar to your existing Nobeltec navigation system. Either by itself, or overlaid on the chart, the radar image provides valuable safety information in an interface you are already familiar with. You get the power and performance of high-end plotters directly on your desktop.

For fast and efficient presentation of radar signatures, raw data is processed within the 2kW or 4kW radomes and presented on a PC or a Nobeltec Wireless Display™ (WND) that has either Nobeltec Visual Navigation Suite (VNS)™ or Admiral Software.

The 2kW radome features automatic and manual sensitivity and tuning controls, including rain clutter – which allow boaters to spend less time tuning the unit and more time navigating. The 4kW provides additional functionality that includes automatic controls for gain and sea clutter.

Once the 2kW radar or 4kW radar are interfaced with either Nobeltec Visual Navigation Suite (VNS) or Admiral, it is possible to overlay radar images on the charts to help reconcile radar signatures with known objects. Users can view “radar-only” or split the display for multiple views of radar and charting.

* 2kW & 4kW radomes work with Nobeltec Admiral or Visual Navigation Suite (VNS), a PC, or a Nobeltec Wireless Display Unit. These items are sold separately.

Nobeltec Product	Part #
Nobeltec 2kW Radome	RHRDT00002
Nobeltec 4kW Radome	RHRDF00001

For current pricing check www.nobeltec.com



Performance Driven

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Easy To Use

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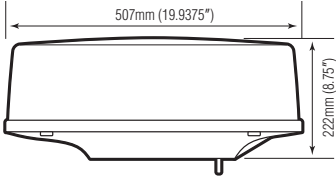
Cutting Edge Technology

—

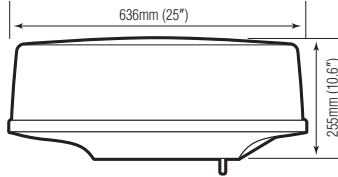
Create An Entire Onboard Network

InSight™ Radar 2 (IR2™)

2kW Specifications

Model	IR2-2D20 2kW 20" Radome
Dimensions	
Transceiver	20" enclosed radome
Rotation	30 RPM
Peak Power Output	2k Watts
Transmitting Frequency	9445 +/- 30MHz
Beam Width	4.7° (Horizontal), 25° (Vertical)
Range Scales Nm	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 24
Resolution	480 x 480 pixels
Presentation Mode	Dedicated Radar Window: Head Up Overlay: Course Up, North Up, Leg Up or Head Up
Bearing Accuracy	Better than +/- 1%
Function	FTC, Interference Rejection, Target Expansion, Auto Calibrate, EBL, VRM, Zoom, Overlay, Gain, STC
Guard Zone	Omni directional – fully user defined
Min Detectable Range	Within 25 Meters on 1/8 NM range
Range Discrimination	Better than 25 Meters
Range Accuracy	Better than 8 Meters or .9% of max range of scale in use
Pulse Length	.1 µSec/2200Hz (Short range) .3 µSec/1100Hz (Medium range) .8 µSec/500 (Long range)
If Center Frequency	60 MHz
If Band Width	6 MHz short and medium range, 3 MHz long range
Power Consumption	30 Watts or less
Voltage Supply	10.8 to 41.6 VDC
PC Interface	RS-422
Cable Length Options	10 Meters standard (15 and 20 Meter optional)
Operating Temperature	-13° to 131° F (-25° to 55° C)
Wind Force	100 knots relative
Water Resistance	IPX6 (IEC60945)
Output	Radar image video by proprietary protocol
Input	Radar control by proprietary protocol
Dimensions, Weight	19.9375"W x 8.75"H, 15.4lbs.

4kW Specifications

Model	IR2-4D 4kW 25" Radome
Dimensions	
Transceiver	25" enclosed radome
Rotation	24 RPM
Peak Power Output	4k Watts
Transmitting Frequency	9410 +/- 30MHz
Beam Width	3.9° (Horizontal), 25° (Vertical)
Range Scales Nm	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 16, 24, 36
Resolution	1024 x 1024 pixels
Presentation Mode	Dedicated: Course Up, North Up, Leg Up or Head Up Overlay: Course Up, North Up, Leg Up or Head Up
Bearing Accuracy	Better than +/- 1%
Function	FTC, Interference Rejection, Target Expansion, Auto Calibrate, EBL, VRM, Zoom, Overlay, Gain, STC
Guard Zone	Omni directional – fully user defined
Min Detectable Range	Within 25 Meters on 1/8 NM range
Range Discrimination	Better than 25 Meters
Range Accuracy	Better than 8 Meters or .9% of max range of scale in use
Pulse Length	.08 µSec/2200Hz (Short range) .25 µSec/1100Hz (Medium range) .8 µSec/500 (Long range)
If Center Frequency	60 MHz
If Band Width	6 MHz short and medium range, 3 MHz long range
Power Consumption	55 Watts or less
Voltage Supply	10.8 to 41.6 VDC
PC Interface	10/100 ethernet connection - Cat 5 or better
Cable Length Options	10 Meters standard (15 and 20 Meter optional)
Operating Temperature	-13° to 131° F (-25° to 55° C)
Wind Force	100 knots relative
Water Resistance	IPX6 (IEC60945)
Output	Radar image video by proprietary protocol
Input	Radar control by proprietary protocol
Dimensions, Weight	25"W x 10.06"H, 22.5lbs.

Supported Chart Formats

- Passport World Charts™
- Passport Deluxe™
- Passport Bathymetry™
- Nobeltec RasterPlus™ Charts
- Nobeltec Navigation Photos
- SoftChart, Maptech® 5.0 & earlier, NDI

Minimum System Requirements

- Operating System: Microsoft® Windows® 2000, XP Home Edition/Professional (Latest Service Pack may be required for technical support)
- CPU: Pentium® 4 equivalent or higher
- Memory: 512 MB RAM
- Hard Drive Space: 160 MB plus (Additional space required for charts)
- Display: 1024 x 768 resolution, 32-bit color video
- CD-ROM for vector charts, DVD for optional data
- Available serial and/or USB port for NMEA data*
- GPS for positioning
- 10/100 Ethernet card
- 10Hz heading sensor

Recommended:

- CPU: Pentium® 4, (3.0 GHz processing power or equivalent) or better
- Memory: 1 GB RAM (or more if multiple high end features are used concurrently)

* If you do not have an available serial port, a SeaLevel® Serial-to-USB port adapter may be purchased separately, requiring only an available USB port.

For more information visit your local authorized Nobeltec reseller or visit us on the web at www.nobeltec.com.

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www.nobeltec.com

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