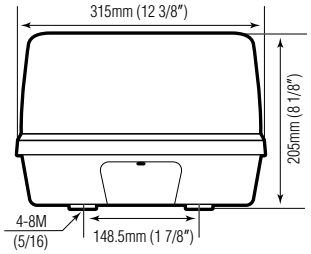
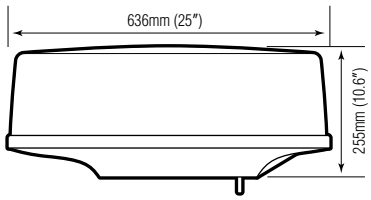
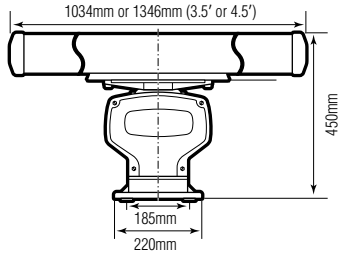
Nobeltec®
Radar Model Specifications

For current pricing check nobeltec.com	*Domes*		*Open Arrays*
Model	**IR2-2D**	**IR2-4D**	**IR2-4.3/IR2-4.4**
DIMENSIONS			
TRANSCEIVER	12.4" enclosed radome	25" enclosed radome	3.5' or 4.5' open array
ROTATION	30 RPM	24 RPM	24/48 RPM
PEAK POWER OUT	2 kWatts	4 kWatts	4 kWatts
RESOLUTION & COLORS	480 X 480, 4 Colors	1024 X 1024, 8 Colors	1024 X 1024, 8 Colors
TRANSMITTING FREQUENCY	9445 +/- 30 MHz	9410 +/- 30 MHz	9410 +/- 30 MHz
BEAM WIDTH	7° (Horizontal), 25° (Vertical)	3.9° (Horizontal), 25° (Vertical)	2.5°/1.8° (Horizontal), 22°/22° (Vertical)
RANGE SCALES NM	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 16, 24	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 16, 24, 36	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 16, 24, 36, 48
MIN DETECTABLE RANGE	Within 25 meters on 1/8 NM range	Within 25 meters on 1/8 NM range	Within 25 meters on 1/8 NM range
RANGE DISCRIMINATION	Better than 25 meters	Better than 25 meters	Better than 25 meters
RANGE ACCURACY	Better than 8 meters or .9% of max range in use	Better than 8 meters or .9% of max range of scale in use	Better than 8 meters or .9% of max range of scale in use
PULSE LENGTH	.1 µSec/2200 Hz (Short Range), .3 µSec/1100 Hz (Medium Range) .8 µSec/500 Hz (Long Range)	.8 µSec/2000 Hz (Short Range) .25 µSec/1000 Hz (Medium Range) .8 µSec/500 Hz (Long Range)	.8 µSec/2000 Hz (Short Range) .25 µSec/1000 Hz (Medium Range) .8 µSec/600 Hz (Long Range)
IF CENTER FREQUENCY	60 MHz	60 MHz	60 MHz
IF BAND WIDTH	6 MHz short and medium range, 3 MHz long range	Wide: More than 15 MHz, 20 MHz average Narrow: Less than 5 MHz, 2.5 MHz average	Wide: More than 15 MHz, 20 MHz average Narrow: Less than 5 MHz, 2.5 MHz average
POWER CONSUMPTION	30 Watts or less	55 Watts or less	70 Watts or less
VOLTAGE SUPPLY	10.8 to 31.2 VDC	10.8 to 41.6 VDC	10.8 to 41.6 VDC
PC INTERFACE	RS-422 Bi-directional via USB	10/100 ethernet connection - CAT 5 or better	10/100 ethernet connection - CAT 5 or better
CABLE LENGTH OPTIONS	10 meters standard (15, 20 and 30 meter optional)	10 meters standard (15, 20 and 30 meter optional)	10 meters standard (15, 20 and 30 meter optional)
OPERATING TEMPERATURE	-13° to 131° F (-25° to 55° C)	-13° to 131° F (-25° to 55° C)	-13° to 131° F (-25° to 55° C)
WIND FORCE	100 knots relative	100 knots relative	100 knots relative
WATER RESISTANCE	IPX5 (IEC529)	IPX6 (IEC60945)	IPX6 (IEC60945)
SHIPPING WEIGHT	35 lbs.	44 lbs.	71 lbs./75 lbs.
PART NUMBER	**2kW 12" Dome – NTHRP000 – w/VNS** **2kW 12" Dome – NTHRP052 – w/Admiral**	**4kW 25" Dome – NTHRP001 – w/VNS** **4kW 25" Dome – NTHRP053 – w/Admiral**	**4kW 3.5' Open Array – NTHRP002 – w/VNS** **4kW 3.5' Open Array – NTHRP054 – w/Admiral** **4kW 4.5' Open Array – NTHRP003 – w/VNS** **4kW 4.5' Open Array – NTHRP055 – w/Admiral**

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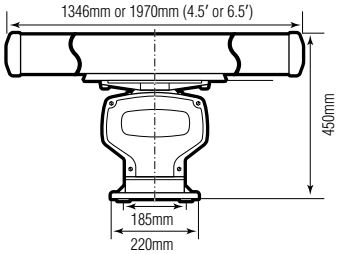
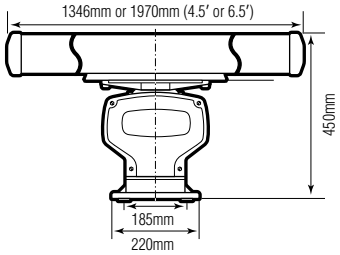
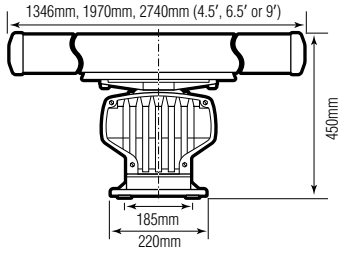
For current pricing check nobeltec.com	*Open Arrays*		
Model	**IR2-6.4 / IR2-6.6**	**IR2-12.4 / IR2-12.6**	**IR2-25.4 / IR2-25.6 / IR2-25.9**
DIMENSIONS			
TRANSCEIVER	4.5′ or 6.5′ Open Array	4.5′ or 6.5′ Open Array	4.5′, 6.5′ or 9′ Open Array
ROTATION	24/48 RPM	24/48 RPM	24/48 RPM
PEAK POWER OUT	6 kWatts	12 kWatts	25 kWatts
RESOLUTION & COLORS	1024 X 1024, 8 Colors	1024 X 1024, 8 Colors	1024 X 1024, 8 Colors
TRANSMITTING FREQUENCY	9410 +/- 30 MHz	9410 +/- 30 MHz	9410 +/- 30 MHz
BEAM WIDTH	1.8°/1.2° (Horizontal), 22°/22° (Vertical)	1.8°/1.2° (Horizontal), 22°/22° (Vertical)	1.8°/1.2°/0.8° (Horizontal), 22°/22°/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, 48, 64	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 16, 24, 36, 48, 64, 72	1/8, 1/4, 1/2, 3/4, 1 1/2, 2, 3, 4, 6, 8, 12, 16, 24, 36, 48, 64, 72, 96
MIN DETECTABLE RANGE	Within 25 meters on 1/8 NM range	Within 25 meters on 1/8 NM range	Within 25 meters on 1/8 NM range
RANGE DISCRIMINATION	Better than 25 meters	Better than 25 meters	Better than 25 meters
RANGE ACCURACY	Better than 8 meters or .9% of max range of scale in use	Better than 8 meters or .9% of max range of scale in use	Better than 8 meters or .9% of max range of scale in use
PULSE LENGTH	.8 µSec/2000 Hz (S Range), .3 µSec/1500 Hz (M Range 1) .6 µSec/1000 Hz (M Range 2), 1.0 µSec/500 Hz (L Range)	.8 µSec/2000 Hz (S Range), .3 µSec/1500 Hz (M Range 1) .6 µSec/1000 Hz (M Range 2), 1.0 µSec/500 Hz (L Range)	.8 µSec/2000 Hz (S Range), .3 µSec/1300 Hz (M Range 1) .6 µSec/800 Hz (M Range 2), 1.2 µSec/500 Hz (L Range 1) 1.2 µSec/400 Hz (L Range 2)
IF CENTER FREQUENCY	60 MHz	60 MHz	60 MHz
IF BAND WIDTH	15 MHz (20 MHz average) short and medium range, less than 5 MHz (2.5 MHz average) long range	15 MHz (20 MHz average) short and medium range, less than 5 MHz (2.5 MHz average) long range	15 MHz (20 MHz average) short and medium range, less than 5 MHz (2.5 MHz average) long range
POWER CONSUMPTION	80 Watts or less	90 Watts or less	130 Watts or less
VOLTAGE SUPPLY	10.8 to 41.6 VDC	10.8 to 41.6 VDC	18 to 41.6 VDC
PC INTERFACE	10/100 ethernet connection - CAT 5 or better	10/100 ethernet connection - CAT 5 or better	10/100 ethernet connection - CAT 5 or better
CABLE LENGTH OPTIONS	10 meters standard (15, 20 and 30 meter optional)	10 meters standard (15, 20 and 30 meter optional)	10 meters standard (15, 20 and 30 meter optional)
OPERATING TEMPERATURE	-13° to 131° F (-25° to 55° C)	-13° to 131° F (-25° to 55° C)	-13° to 131° F (-25° to 55° C)
WIND FORCE	100 knots relative	100 knots relative	100 knots relative
WATER RESISTANCE	IPX6 (IEC60945)	IPX6 (IEC60945)	IPX6 (IEC60945)
SHIPPING WEIGHT	80 lbs./84 lbs.	80 lbs./84 lbs.	80 lbs./84 lbs./93 lbs.
PART NUMBER	**6kW 4.5′ Open Array – NTHRP004 – w/VNS** **6kW 4.5′ Open Array – NTHRP056 – w/Admiral** **6kW 6.5′ Open Array – NTHRP005 – w/VNS** **6kW 6.5′ Open Array – NTHRP057 – w/Admiral**	**12kW 4.5′ Open Array – NTHRP006 – w/VNS** **12kW 4.5′ Open Array – NTHRP058 – w/Admiral** **12kW 6.5′ Open Array – NTHRP007 – w/VNS** **12kW 6.5′ Open Array – NTHRP059 – w/Admiral**	**25kW 4.5′ Open Array – NTHRP067 – w/VNS** **25kW 4.5′ Open Array – NTHRP063 – w/Admiral** **25kW 6.5′ Open Array – NTHRP068 – w/VNS** **25kW 6.5′ Open Array – NTHRP064 – w/Admiral** **25kW 9.0′ Open Array – NTHRP062 – w/VNS** **25kW 9.0′ Open Array – NTHRP065 – w/Admiral**

If you are outside of North America, please contact your local dealer to obtain global version and part numbers.

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NOBELTEC®
a JEPPESEN company

15160 NW Laidlaw Rd., Suite 100 • Portland, Oregon 97229
Phone: 503-579-1414 • Toll Free: 800-946-2877
Web: www.nobeltec.com