

*smartblue*

# Surveillance Radars

8ft / 12ft / 18ft Maritime Surveillance Radars





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# Surveillance Radar Series

The Raytheon Anschutz SMARTBLUE Radar Series are high-performance surveillance radars, suitable for sophisticated coastal surveillance systems, vessel traffic services and mobile radar installations.

The well-proven extremely ruggedized design with a reliable transceiver, adaptable motor unit and a range of antennas from 8', 12' and 18' the SMARTBLUE Radar Series is built to withstand the rigorous of continuous use on ships and maritime environments in all weather and all climates conditions. This

makes it ideal for remote unmanned sites because it combines extreme reliability with top-notch performance at a very low price.



## BENEFITS AT A GLANCE

- Excellent radar performance
- Commercial off-the-shelf (COTS)
- Modern low noise receiver (< 6.5 dB max incl. all losses)
- Over 100 dB dynamic range
- Modern high density components
- Simple maintenance and reliable operation -> low maintenance cost
- Low weight (up-transceiver less than 100 kg including 18' Antenna)
- Field proven on numerous ships and coastal surveillance systems
- IMO approved transceiver
- IALA compliant

## WE UNDERSTAND SURVEILLANCE

Raytheon Anschutz provides know-how and experience from more than 400 radar installations worldwide. Our customers rely on dedicated program management including customized system planning and “turnkey” integration, logistic support and budget control. In worldwide projects our customers benefit from high availability of service and customer care.



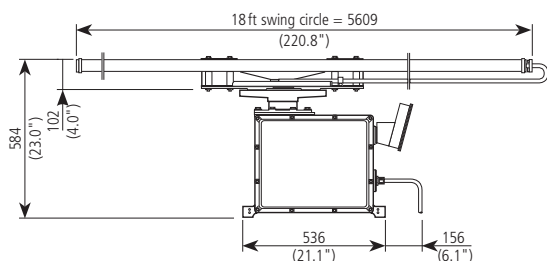


## TECHNICAL DATA

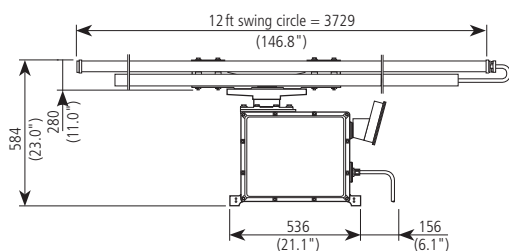
Antenna	8'	12'	18'
Horizontal beam width	0,95°	0,7°	0,45°
Vertical beam width	24,4°	25°	25°
Gain [dBi] nominal	31	32,7	34,5
Rotation [RPM]	18/22/26/40	18/22/26	18/22/26
Wind load operating [kts]	100	100	100
Wind load survival [kts]	150	150	150
Weight [kg]	10	18	24,5
Length [mm]	2686	3729	5609

12 ft S-Band also available.

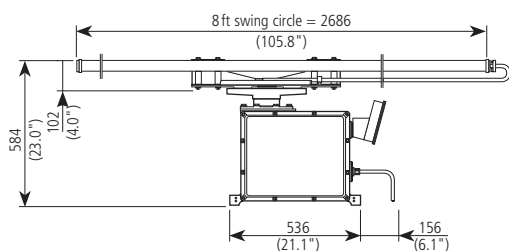
### X-Band 18 ft Antenna Unit and Transceiver



### X-Band 12 ft Antenna Unit and Transceiver



### X-Band 8 ft Antenna Unit and Transceiver



## RADAR DATA PROCESSOR & TRACKER

The SMARTBLUE radar data processor & tracker is the most advanced known, commercially available, tracker for marine, coastal and port surveillance.

SMARTBLUE tracker systems have been deployed operationally since 2002 to automatically track small marine targets such as go-fast and rigid inflatable boats (RIBs) in heavy seas and at long ranges. Larger targets are detected far beyond the usual radar horizon by correlating the weak, intermittently detectable, returns from the masts and superstructure into reliable tracks that even experienced radar operators can barely discern.

Combined with the SMARTBLUE Radar Series the integrated system is specialized on tracking of maritime targets with a neglectable false alarm rate that derives from real but unwanted radar detections of birds etc.

### 25KW X-Band Radar Transceiver

#### Transceiver

- Frequency 9410 +/- 30MHz
- Dynamic range 100dB (Typical) / 80dB min
- Receiver noise < 6.5dB max

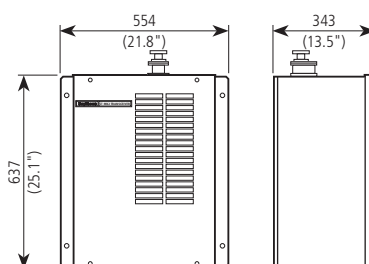
#### Power requirements & power consumption

- 110 / 230V AC
- 184 W

#### Dimensions (down transceiver)

- Weight: 29.50 kg
- Height: 554 mm
- Width: 343 mm
- Depth: 637 mm

### Radar Transceiver (down version)





## SERVICE AND LIFETIME SUPPORT

Thanks to a network of own subsidiaries, among others in Singapore and San Diego, and more than 200 sales and service partners we can offer round the clock support and site-specific consultancy to customers around the world. This covers:

- Worldwide service with 24/7 local life cycle service and support
- Regional support includes knowledge in practice, language and culture
- Offshore standards and regulations
- Tailored logistic and in-service support solutions as an option
- Continuous improvement and efficient solutions for midlife modernization

Raytheon Anschutz offers extensive know-how for surveillance solutions, supporting customers from concept of operation's, project outline and specification of systems through project realization, system in operation and ongoing support. Consultancy services offer guidance on selection of appropriate technology and assist customers in balancing operational requirements with best value for budget. Where appropriate Raytheon Anschutz partner with sensor systems providers and offer customers the best available for the budget.

Raytheon Anschutz have service engineers experienced in offshore processes and procedures with all necessary survival and safety training certificates.

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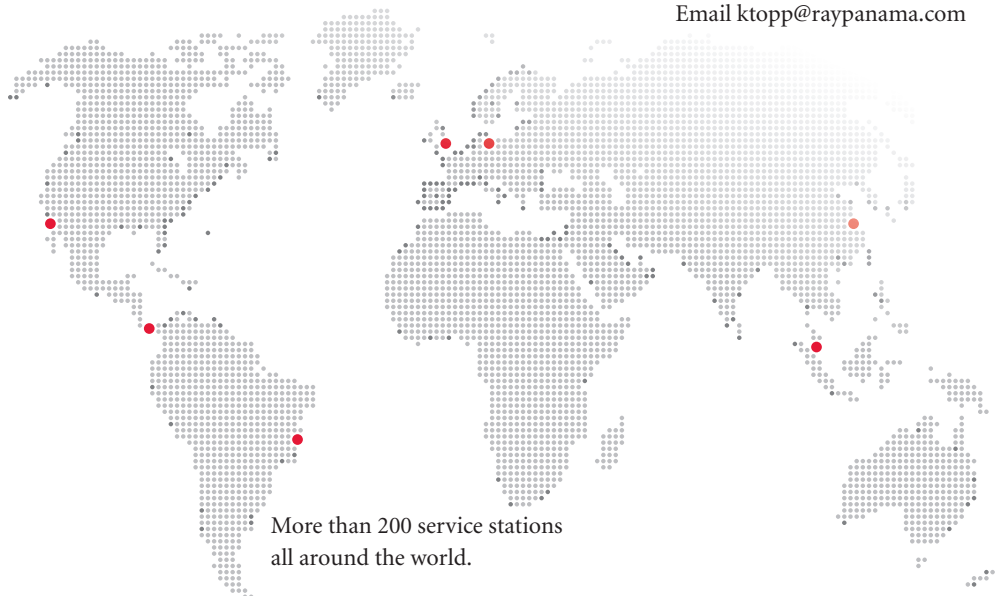
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