

ASR-12

Outlook

- The ASR-12 is an Airport Terminal Surveillance Radar manufactured by Northrop Grumman
- No production is forecast
- Barring further activity, this report will be archived in August 2013

Orientation

Description. The ASR-12 is an Airport Terminal Surveillance Radar manufactured by Northrop Grumman.

Sponsor

Northrop Grumman Corp
Electronic Systems Sector
PO Box 17319
Baltimore, MD 21203-7319
USA
Tel: + 1 (410) 765-1000
Fax: + 1 (410) 993-8771
Web site: <http://www.northropgrumman.com>

Status. In service.

Application. Airspace surveillance in terminal control areas.

Price Range. The price of a radar varies with site-specific requirements. The unit cost ranges from an estimated \$2.9 million to \$3.6 million.

Contractors

Prime

Northrop Grumman Electronic Systems	http://www.es.northropgrumman.com , 1580-A W Nursery Rd, Linthicum, MD 21090 United States, Tel: + 1 (800) 443-9219, Email: ES_Communications@ngc.com , Prime
Indra Sistemas SA	http://www.indracompany.com , 35 Bruselas Ave, Alcobendas, Madrid, 28108 Spain, Tel: + 34 91 480 50 00, Fax: + 34 91 480 50 80, Email: indra@indracompany.com , Licensee

Comprehensive information on Contractors can be found in Forecast International's "International Contractors" series. For a detailed description, go to www.forecastinternational.com (see Products & Samples/Governments & Industries) or call + 1 (203) 426-0800.

Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown, CT 06470, USA; rich.pettibone@forecast1.com

ASR-12**Technical Data**

Characteristics	<u>Metric</u>	<u>U.S.</u>
Frequency	2.7 - 2.9 GHz	
Peak power	22 kW	
Pulse width	1 μ sec, 55 μ sec	
Instrumented range	111, 148, 185 km	60, 80, 100 nm
Resolution		
Range	230 m	747 ft
Azimuth	2.8 deg	
Accuracy (rms)		
Range	± 38 m	± 121.6 ft
Azimuth	± 0.12 deg	
Track capacity	1,000 targets	
Clutter improvement factor	55 dB	
Processing	Moving target detection-IV Doppler filter bank	
Weather type	6-level	
Filters	6/8/10	
A/D conversion	15 bits @7.78 MHz	
Antenna gain	35 dB	
Polarization	Linear/Circular	
Azimuth beamwidth	1.4 deg	
Elevation beamwidth	4.8 deg min (Cosecant squared) to +30 deg	
Rotation rate	10/12/15 rpm	
Features	Simultaneous target and radar data Six-level weather output (IACO-compliant) Advanced moving target detection (MTD-IV) Constant false alarm rate (CFAR) processing Remote monitoring and control Unattended operation Mode S compatible Multiple interface capabilities MTD-IV Doppler Filter Bank	
Processing		
Filters	6/8/10	
Tracking capacity	1,000 targets	
MTBCF	>37,500 hr	
MTTR	<15 min	
Availability	99.998%	

ASR-12

Source: Northrop Grumman

Program Review

On May 14, 2007, Northrop Grumman announced that the company had signed a licensing agreement with Indra giving Indra rights to manufacture and market

Northrop Grumman's ASR-12 air traffic control radar system outside the United States.

Timetable

<u>Month</u>	<u>Year</u>	<u>Major Development</u>
May	2007	Indra signs agreement to manufacture and market the ASR-12 outside the U.S.

Contracts/Orders & Options

No recent contracts have been identified.

Worldwide Distribution/Inventories

Forecast International believes the ASR-12 has been procured by **Argentina, Egypt, El Salvador, Mexico, Peru,** and **Saudi Arabia.**

Forecast Rationale

The ASR-12 is an Airport Terminal Surveillance Radar manufactured by Northrop Grumman.

into an ASR-12 licensing agreement with Indra. However, no ASR-12 production is forecast.

In the most recent news regarding the ASR-12, in May 2007 Northrop Grumman announced that it had entered

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