

RADARS & SENSORS

DESIGNATION	DESCRIPTION	APPLICATIONS	REMARKS
BAE SYSTEMS, Avionics, Basildon, Essex, England, UK			
AN/AAR-51	Navigation Flir sensor	AV-8B+	—
BAE SYSTEMS, Avionics, Milton Keynes, Hertfordshire, England, UK			
Foxhunter AI-24	Multimode track-while-scan pulse-Doppler radar	Tornado ADV	—
BAE SYSTEMS, Avionics, Edinburgh, Scotland, UK			
Blue Hawk	Airborne multifunction, multimode fire control radar	—	—
Blue Kestrel	Long-range, maritime surveillance radar	—	On EH 101. In service.
Blue Vixen	Airborne interception multimode radar	Sea Harrier F/A2	—
Captor	Multimode I/J band radar	Eurofighter	—
Seaspray 2000	Maritime surveillance radar	Do 228	—
Seaspray 3000	Maritime surveillance radar	Agusta Bell 212, Fokker 27 MPA, Lynx	—
Seaspray Mk. 1	Maritime surveillance and targeting radar	Lynx	—
Super Skyranger	Airborne interception, multimode radar	—	For MIG-21 upgrade, others.
BAE SYSTEMS, Platform Solutions, Plymouth, Devon, England, UK			
Terprom	Digital terrain system	F-16, Harrier, Jaguar	Also on Eurofighter, Mirage 2000, Tornado.
Terprom TAWS	Terrain awareness warning system	C-17	—
ELBIT SYSTEMS LTD., EIOp ElectroOptic Industries Ltd., Rehovot, Israel			
LORD	Laser obstacle ranging and display system	Helicopters	Obstacle detection at low altitude in adverse weather.
ERICSSON, Microwave Systems AB, Molndal, Sweden			
Erieye	Airborne early warning and control system	ERJ 145, Saab 340	—
PS-05/A Mk. 3	Advance multi-mode fighter radar	JAS 39 Gripen	—
FINMECCANICA, Galileo Avionica SpA., Florence, Italy			
APS 717	Helicopter maritime surveillance radar	AB.412, EH 101, HH-3F	For Italian navy, Portugese air force.
EOST 23	Electro-optic surveillance and tracking system	ATR 42	—
SCP.01	Lightweight aircraft multimode radar	AMX	In conjunction with Brazil's Mectron.
TTH Flir	Second-generation helicopter Flir	NH 90, Tiger	Only for TTH version of NH 90.
FINMECCANICA, Galileo Avionica SpA., Milan, Italy			
Captor	Multimode radar	Eurofighter	International cooperation.
Creso	Battlefield surveillance radar	Italian army AB.412	Part of CATRIN-SORAO program.
ENR	Maritime surveillance radar	NH 90	European cooperation.
Grifo	Multimode pulse-Doppler radar	F-5E/F, F-7, Mirage 3	Also on L-159.
MM/APS 784	Maritime surveillance radar	EH 101	Italian version only.
MM/HEW 784	Early warning radar	EH 101	Italian version only.
Pirate IRST/FLIR	Infrared search and track system	Eurofighter	With Eurofirst consortium.
HARRIS CORP., Government Communications Systems Div., Palm Bay, FL, USA			
DAU	Data acquisition unit	F-22	—
HONEYWELL, Phoenix, AZ, USA			
Primus 660	Color weather radar system "REACT" mode	ERJ 135, ERJ 145	Also on ATR 42, ATR 72, Citation Bravo and Ultra.
Primus 701	Helo and fixed wing color weather radar with beacon mode	CH-47D	—
Primus 880	Color weather radar with turbulence detection "REACT" mode	Global Express, Gulfstream 4 & 5	Also on Falcon 900B, 900EX, others.
RDR-4B	Fwd.-looking weather radar with predictive windshear detection	717, 737, A320 family	Also on MD-80 and MD-90. Available for all transports.
RDR-2000	Color weather radar unit	Beech King Air	Vertical profile radar. Also for Citation family.
RDR-2100	Weather radar	Learjet 31	Vertical profile radar.
ISRAEL AIRCRAFT INDUSTRIES LTD., Elta Electronics Industries Ltd., Ashdod, Israel			
AEW & C	Airborne early warning system	A310	For business and commercial aircraft. Conformal phased-array radar.
EL/M-2022A(V)3	Maritime surveillance radar	P-3C	Adaptable to helicopters. SAR and ISAR capabilities.
EL/M-2022U	Maritime surveillance radar payload	UAVs	SAR and ISAR capabilities.
EL/M-2032	Multimode pulse-Doppler fire control radar	F-16, MIG-21	—
EL/M-2055	SAR/GMTI lightweight reconnaissance system	UAVs	—
EL/M-2057	SAR/GMTI lightweight reconnaissance system	Astra	—

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ISRAEL AIRCRAFT INDUSTRIES LTD., Elta Electronics Industries Ltd., Ashdod, Israel			
EL/M-2060P	Podded SAR/GMTI combat aircraft reconnaissance pod	F-16	For fighters.
EL/M-2060T	SAR/GMTI reconnaissance system	737	For transport aircraft.
Phalcon	Airborne early warning system	707	L-band, conformal phased-array radar. For bizjets too.
KOLLSMAN INC., Merrimack, NH, USA			
Compass, IRST	Infrared search and track gimbal system, stabilized	—	For UAVs, helicopters and fixed-wing aircraft.
Enhanced Vision System	Infrared low visibility landing aid system	Gulfstream 400/500/550	—
LOCKHEED MARTIN, Missiles and Fire Control-Orlando, Orlando, FL, USA			
Comanche radar	Millimeter wave fire control radar	RAH-66	In development.
Longbow radar	Millimeter wave fire control radar	AH-64	In production.
LOCKHEED MARTIN, NE&SS-Radar Systems, Syracuse, NY, USA			
AN/APG-67	Multimode, fighter aircraft radar	T-50	—
AN/APS-145	Airborne surveillance system	E-2C, US Customs P-3	Adaptable to C-130s.
Longbow Limited Liability Co., Orlando, FL, USA			
AN/APG-78	Millimeter wave fire control radar	AH-64D, WAH-64	In production. Northrop Grumman/Lockheed Martin joint venture.
AN/APR-48A	Radar frequency interferometer	AH-64D, WAH-64	In production. Northrop Grumman/Lockheed Martin joint venture.
Cobra radar	Millimeter wave fire control radar	AH-1Z	In development. Northrop Grumman/Lockheed Martin joint venture.
NORTHROP GRUMMAN CORP., Electronic Systems, Baltimore, MD, USA			
AN/APG-66	Multimode fire control radar	A-4, F-16A/B, Hawk 200	Mid-life upgrade for 375 NATO F-16s under way.
AN/APG-68	Multimode fire control radar	F-16C/D	New version in EMD [APG-68(V)9].
AN/APG-77	Multimode fire control radar	F-22	With Raytheon. Flight test underway.
AN/APG-80	Active electronically scanned array radar	F-16 Block 60	In EMD.
AN/APG-81	Active electronically scanned array radar	F-35	In SDD.
AN/APN-241	Ground-mapping, navigation and weather radar	C-27J, C-130H/J	Selected for US C-130 AMP.
AN/APQ-164	Fire control, navigation and weapons-targeting radar	B-1B	In service.
AN/APS-143	Multimode sea surveillance system	HU-25	In service.
AN/APY-1/2	Long-range surveillance radar	E-3	AWACS.
HISAR	SAR/MTI ground surveillance radar	Dash 7	In service.
HISAR	SAR/MTI ground surveillance radar	Beech 1900	In service.
JSF AESA	Active electronically scanned array radar	F-35	In EMD.
Night Hunter	IR/TV surveillance system	C-130, Nimrod	In production.
RISTA	IR line scanner/Flir	F-16	Also for UAVs.
TESAR (AN/ZPQ-1)	Tactical endurance SAR/MTI radar	RQ-1 (Tier 2)	Deployed.
TUAVR	Tactical UAV radar	Shadow UAV	In system.
WESCAM 16D	IR/TV/laser surveillance system	HU-25	In service. WESCAM 16DS version on Beech 1900.
WESCAM M20	IR/TV/laser surveillance system	Dash 7	In service.
WF-360TL	IR/TV/laser surveillance system	Dash 7, HU-25	In service.
NORTHROP GRUMMAN CORP., Electronic Systems, Norwalk, CT & Baltimore, MD, both USA			
AN/APG-76	Synthetic aperture multimode radar	Israeli F-4E	Offered for podded S-3B SAR surveillance radar.
AN/APY-3	Long-range ground surveillance range	E-8	JSTARS.
NORTHROP GRUMMAN CORP., Northrop Grumman Systems Canada, Toronto, Ontario, Canada			
APS-504(V)5	Airborne search and surveillance radar	737, Beech 1900	Also in CN-235, S-2T.
NORTHROP GRUMMAN CORP., Sperry Marine, Charlottesville, VA, USA			
AN/APN-59E/F	Navigation radar	C-130, RC-135	More than 2,000 units produced.
AN/APN-242	Color weather/navigation radar	C-130, RC-135	In production. AN/APN-59 replacement.
RAYTHEON CO., Space and Airborne Systems, El Segundo, CA, USA			
AN/AAQ-15	IR detection system	MC-130H	—
AN/AAQ-17	IR detection system	AC-130U	—
AN/AAQ-27	IR imaging system	V-22	Staring MWIR sensor.
AN/AAQ-29	IR imaging system	CH-53E, RAN SH-2	Staring MWIR sensor, 3 FOV.
AN/APG-63	Multimode fire control radar	F-15A/B/C/D	For USAF, Israel, Japan, Saudi Arabia.
AN/APG-63(V)1	Multimode fire control radar	F-15C/D	In production. (V) 2 version has active electronically scanned array.

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RAYTHEON CO., Space and Airborne Systems, El Segundo, CA, USA			
AN/APG-65	Multimode fire control radar	AV-8B+, F/A-18A/B	Also early F/A-18C/Ds, German and Greek F-4Fs.
AN/APG-70	Multimode fire control radar	F-15E	Also on later F-15C/Ds, F-15S, F-15I.
AN/APG-71	Multimode fire control radar	F-14D	—
AN/APG-73	Multimode fire control radar	F/A-18A/B, C/D, E/F	—
AN/APG-77	Multimode fire control radar	F-22	Joint venture with Northrop Grumman. Testing underway.
AN/APG-79	Multimode fire control radar	F/A-18E/F	Active electronically scanned array upgrade.
AN/APQ-122	Terrain-following/terrain-avoidance radar	MC-130H	—
AN/APQ-126	Multimode radar	KC-135	—
AN/APQ-174	Multimode terrain-following/terrain-avoidance radar	MH-47E, MH-60K	—
AN/APQ-180	Multimode radar	AC-130U	System based on AN/APG-70.
AN/APQ-181	Multimode radar	B-2	LPI radar with GATS.
AN/APQ-186	Multimode terrain-following/terrain-avoidance radar	CV-22	Upgrade to AN/APQ-174.
AN/APS-124	Surface search/detection radar	LAMPS helicopters	—
AN/APS-137	Multimode maritime surveillance radar	C-130, P-3, S-3	ISAR.
AN/APS-137(V)	Surveillance radar	C-130	—
AN/ASQ-213	HTS(E) HARM targeting system	F-16	Block 50 Wild Weasel F-16s.
AN/AWG-9	Weapon control system	F-14A	Upgraded to AN/APG-71 for F-14D.
ASARS-2	High resolution SAR and NTI	U-2	—
HISAR	High resolution, SAR/GMTI/sea surveillance radar	—	For executive-class aircraft. Commercial version of ASARS-2.
Integrated Sensor Suite	High-resolution integrated sensor suite	Global Hawk (RQ-4A)	SAR, digital camera and infrared capability.
IRADS	Infrared acquisition and designation system	F-117	—
RS-710	IR linescanner	F-16	On F-16 recce.
SeaVue	SAR/ISAR maritime surveillance radar	ATR-42, Caravan 2, Hawker 800	Also on other aircraft.
ROCKWELL COLLINS, Commercial Systems, Air Transport Systems, Cedar Rapids, IA, USA			
FMR-200X	Forward-looking windshear radar	C-130, KC-135	For all military transports.
RDMI	Radio distance magnetic indicator	757, 767, A300-600	Also on Fokker 70/100, A310, A320, MD-88.
WXR-700X	Forward-looking windshear radar	Airbus, Boeing transports	Also on Douglas and Fokker transports. Digital and analog aircraft.
WXR-2100	Multiscan weather radar	Airbus, Boeing transports	—
ROCKWELL COLLINS, Commercial Systems, Business and Regional Systems, Cedar Rapids, IA, USA			
TWR-850	Doppler weather radar	Beech 1900D, Premier 1	Doppler-based. Also for Citation CJ1 & CJ2, others.
WXR-800	Weather radar	Citation CJ1, CJ2 & CJ3	Also on Premier 1.
WXR-840	Weather radar	Beech 1900D, Learjet 60	For all corporate and regional aircraft.
SAGEM SA., Paris, France			
IRIS 165	IR, CCD Flir in conformal pod	Mirage 2000	—
IRSET	Infrared search and track	Mirage 3	Bispectral.
Night Owl	Day/night sight	Rooivalk	For helicopters.
Olosp	Dual or triple sensor payload	Cougar, NH 90	Also for tactical UAVs.
SAMIR	Missile launch warning system	Mirage 2000D/N, Rafale	—
SCM 2400	Infrared line scan unit	Mirage F1CR	—
STRIX	Day/night sight	Tiger HAP (Fr.)	For helicopters.
TELEPHONICS CORP., Command Systems Div., Farmingdale, NY, USA			
AN/APS-143B(V)3	Maritime surveillance radar	NH 90, S-70B, SH-2G	Available with SAR/ISAR/MTI/embedded IFF. Other applications.
AN/APS-147	Multimode ASW radar	SH-60R	Inverse synthetic aperture radar (ISAR), integral IFF.
RDR-1400C/1600	Weather avoidance radar	C-130, CN-295, EH 101	Color, EFIS-compatible. Other applications.
RDR-1500/1700	Surveillance radar	AS332, C-212, Lynx	Color, 20-tracker option/EFIS-compatible. Other applications.
THALES AIRBORNE SYSTEMS, Elancourt, France			
Anemone	Air-to-surface radar	Super Entendard	—
Antilope V	Terrain-following and ground-mapping radar	Mirage 2000D/N	—
Battle Scan	Long-range MTI ground surveillance system	—	For helicopters.
Cyrano 4	Multimode radar	Mirage F1	—
DAV	Air-to-air radar	Tiger	Mast-mounted for helicopters.
HORIZON	Long-range MTI ground surveillance system	—	For Cougar helicopter (Horizon system).
OCEAN MASTER	Maritime surveillance radar	—	With EADS. ISAR available.
RBE2	Multimode radar	Rafale	—

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THALES AIRBORNE SYSTEMS, <i>Elancourt, France</i>			
RC 400	Multimode radar	—	—
RDI	Pulse-Doppler radar	Mirage 2000	—
RDM	Multimode radar	Mirage 2000	Early aircraft.
RDY-2	Multimode radar	Mirage 2000-5/9	—
SARIS	SAR/MTI high resolution radar	Mirage 2000, Rafale	Also for UAVs.
SLAR 2000	SAR/MTI	Mirage F1CR	—
THALES OPTRONIQUE, <i>Guyancourt, France</i>			
OSF	IRST and visual identification system	Rafale	With Sagem.
PRESTO	Medium-range recon. system	Mirage F1CR	Uses film.
RECCE NG	Recon. pod system	Mirage 2000, Rafale	23 pods for French air force and navy. Deliveries start 2005.
THALES SENSORS, <i>Crawley, West Sussex, England, UK</i>			
Searchwater 2000AEW & C	Airborne early warning radar and mission system	Sea King AEW Mk. 7	For helicopters and small aircraft.
Searchwater 2000MR	Multimode maritime surveillance radar	Nimrod MRA4	Suitable for all large MPA.

