

COUNTER-UAS SYSTEMS

MODEL	DETECTION SENSORS	TARGET TRACKING SENSORS	DF SYSTEM	C2 SYSTEM	COUNTERMEASURES
Allen-Vanguard; Ottawa, Ontario, Canada; +1 613-739-9646; www.allenvanguard.com					
ANCILE	Communication interface capability to link to other partnering detection systems.	*	No	Yes	Selective RF spectrum jamming and GPS/GNSS jamming with range of specialized algorithms
ApolloShield; New York City, NY, USA / Tel Aviv, Israel; +1 888-474-5646; www.apolloshield.com					
ApolloShield C-UAS	RF, radar, EO/IR	RF, radar, EO/IR	Yes	Yes	RF jamming, control link disruption, GNSS jamming, non-jamming De-Sync selective protocol manipulation
ApolloShield Portable C-UAS	RF	RF	Opt.	Yes	RF jamming, control link disruption, GNSS jamming
RFG Counter-Drone RF Gun	*	*	*	*	RF jamming, control link disruption, GNSS jamming
ASELSAN; Ankara, Turkey; 90 (312) 592 10 00; aselsan.com.tr					
iHTAR	ACAR Ku-Band Pulse Doppler Radar	HSY EO System	*	Yes	GERGEDAN RF jamming system
iHAVASAR	*	*	*	*	RF jammer
Battelle; Columbus, OH, USA; +1 800-201-2011; www.battelle.org					
Drone Defender	*	*	*	*	RF jamming, control link disruption, GNSS jamming
CACI International, Inc.; Alexandria, VA, USA; +1 703-707-2509; www.caci.com					
SkyTracker® CORIAN™	ESM (RF), EO/IR, DF	ESM (RF), EO/IR, DF	Yes	Yes	RF barrage jamming; control link disruption/manipulation, GPS/GNSS jamming
SkyTracker® AWAIR™	ESM (RF), EO/IR, DF	ESM (RF), EO/IR, DF	Yes	Yes	RF barrage jamming; control link disruption/manipulation, GPS/GNSS jamming
SkyTracker® Small Form Factor	ESM (RF), EO/IR, DF	ESM (RF), EO/IR, DF	Yes	Yes	RF barrage jamming; control link disruption/manipulation, GPS/GNSS jamming
CerbAir; Boulogne-Billancourt, France; +33 9 72 62 58 58; www.cerbair.com					

COUNTERMEASURES RANGE	JAMMING FREQ./ BANDS	PLATFORM	SIZE (in./cm)	WEIGHT (lb/kg)	FEATURES
Government formal competitive test results available	Addresses all sUAS including GNSS based systems; fully programmable to address future threats	Grd-fix, grd-mob, man-portable	Two cases for quick deploy config: one case, 48 x 48 x 40 cm; second case, 64 x 48 x 44 cm	Two cases for quick deploy config: one case, 12 kg; second case, 38 kg	Fielded to protect the G7 leadership; delivers ahemispherical (360/180) dome of protection; sectored antenna solutions for bespoke installations if required.
Up to 3 km	2.4 GHz, 5.8 GHz, GNSS/GLONASS, 433 MHz, 900 MHz, 1.2 GHz, custom bands non-jamming selective De-Sync available in same frequencies	Grd-fix, grd-mob	Config dep.	Config dep.	Modular detect, track, identify and defeat system. Fully autonomous operation and white list capabilities.
Up to 1 km	2.4 GHz, 5.8 GHz, GNSS/GLONASS, 433 MHz, 900 MHz, 1.2 GHz, custom bands non-jamming selective De-Sync available in same frequencies	Man-portable	*	15 kg / 33 lb	Autonomous, hands-free operation; optional – advanced control by operator.
Up to 1 km	2.4 GHz, 5.8 GHz, GNSS/GLONASS, 433 MHz, 900 MHz, 1.2 GHz, custom bands non-jamming selective De-Sync available in same frequencies	Man-portable	*	4 kg / 9 lb	Lightweight counter-drone gun; versions available with or without a backpack unit.
*	GPS, Wi-Fi, ISM, GSM 900/1800, 3G and 4G	Grd-fix	*	*	ACAR features track while scan in surveillance mode, 360 degree sector scanning and a detection range of 5km against targets with RCS of 0.5 m ² .
*	400 MHz - 3 GHz; 5.7-5.9 GHz	Manpack	*	*	Manually directed; 50-w RF output power; high-gain directional antenna; 1.5 hr operation from Li-Ion batteries.
400m	*	Man-portable	Less than 15 lb	*	Battery power runs up to 5 hours continuously.
10 km	20 MHz - 6.1 GHz	Grd-fix	132 in. (min) - 294 in. (max) (H) x 60 in. (W) x 78 in. (D)	626 lb	Detect, track and defeat individual drones or multiple drones simultaneously. Includes the ability to view and jam video link and the ability to geolocate the drone and drone receiver.
5 km	20 MHz - 6.1 GHz	Grd-mob	6 (H) x 20 (W) x 24 (D) in.	163 lb	Detect, track and defeat individual drones or multiple drones simultaneously; utilizes user-friendly GUI.
2 km	20 MHz - 6.1 GHz	Man portable	12 (H) x 5.3 (W) x 4 (D) in.	9 lb	Includes the ability to view and jam video link and the ability to geolocate the drone and drone receiver.

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MODEL	DETECTION SENSORS	TARGET TRACKING SENSORS	DF SYSTEM	C2 SYSTEM	COUNTERMEASURES
CerbAir Stationary Unit	DW-RF-01 RF detector; DW-OP-01 EO sensor	*	*	Yes	RF jamming, control link disruption, GNSS jamming
D-Fend Solutions, Ltd; Ra'anana, Israel; sales@d-fendsolutions.com; www.d-fendsolutions.com					
EnforceAir™	Passive comm	Comm	*	Part of the product, optional API	Cyber / communication
Dedrone; San Francisco, CA, USA; +1 415-813-6116; www.dedrone.com					
Drone Tracker	RF detector; audio, near IR, Wi-Fi sensor, EO (daylight)	*	*	Yes	RF jamming, GNSS jamming
Department 13; Columbia, MD, USA; +1 410-989-5313; www.department13.com					
MESMER	RF detector	*	*	*	RF control link protocol manipulation
Diehl Defence GmbH; Überlingen, Germany; +49 7551 89-01; http://drohnenabwehr.de					
Guardion	ESM	ESM	Yes	TARANIS	RF control link jammer, Wi-Fi disruptor; GNSS jamming, HPEM
DroneShield; Sydney, Australia; +61 2 9995 7280; www.droneshield.com					
DroneSentry	Radar, RF DF	Radar, EO/IR, RF DF	Yes	Yes	RF barrage jamming, command link control, GPS/GNSS jamming
DroneGun Tactical	*	*	No	No	RF barrage jamming, command link control, GPS/GNSS jamming
DroneNode	*	*	No	No	RF barrage jamming, command link control, GPS/GNSS jamming
Elbit Systems EW and SIGINT - Elisra; Holon, Israel; +972-77-293-9798; www.elbitsystems.com/elisra					
ReDrone	DF, geolocation, radar, EO/IR, acoustic	DF, Geo-location, radar, ESM, EO/IR, acoustic	DF of drone and operator	Map-based display	Command link jamming; GPS/GNSS jamming
Elettronica Group - ELT GmbH; Meckenheim, Germany; +49 2225 88060; www.elettronicagroup.com					
MUROS-S (c-UAS configuration)	Radar 2D FMCW, RF interceptor	Radar 3D FMCW, EO/IR Tracking Unit, low-end RF DF	Yes	Yes	*
Elettronica Group - ELT Roma; Rome, Italy; +39 06 41541; www.elt-roma.com					
ADRIAN	Radar 2D, radar 3D, EO/IR, acoustic, ESM, DF	Radar2D, Radar 3D, EO/IR, Acoustic, ESM, DF	Yes	Yes	RF barrage jamming, RF selective jamming, cyber attack to take control of a drone's command link, GPS/GNSS jamming, GPS spoofing
Elta Systems Ltd.; Ashdod, Israel; +972-8-857-2312; www.iai.co.il					
Drone Guard	ESM, radar	EO/IR	*	*	RF jamming; GNSS jamming

COUNTERMEASURES RANGE	JAMMING FREQ./ BANDS	PLATFORM	SIZE (in./cm)	WEIGHT (lb/kg)	FEATURES
Up to 1 km	432-436 MHz; 900-1170 MHz; 1171-1380 MHz; 1570-1620 MHz; 2400-2500 MHz; 5-5.4 GHz; 5.4-5.9 GHz	Grd-fix	*	*	SESP jammer optional.
Up to 2 mi	*	Grd-fix, grd-mob	SDR Sensor: 17 x 17 x 5 in. / 44 x 43 x 12 cm; antenna radome: height: 9 in. / 23 cm; Ø: 18 in. / 46 cm	104 lb / 47.2 kg	Passive detection, IFF, non-jamming, non-kinetik, full take-over and safe landing.
*	GPS, GLONASS, Galileo, WLAN 2.4, and from 5-6 GHz	Grd-mob	*	*	
*	Wi-Fi	Grd-mob	19-in. 6 RU	*	
*	*	Grd-fix	*	*	Partnership between ESG (TARANIS C2 system), Rohde and Schwarz (ARDRONIS ESM and jamming and WiFi Disconnect) and Diehl (HPeMcounterUAS); radar and EO sensors optional.
2 km	433 MHz 915 MHz 2.4 GHz ISM 5.8 GHz ISM GNSS L2 and L1	Grd-fix, grd-mob	4.36m3 shipping size	516 kg shipping weight	Flexible deployment platform or fixed-site solution. Integrated sensor detection and RF counter-measures.
1-2 km	433 MHz 915 MHz 2.4 GHz ISM 5.8 GHz ISM GNSS L2 and L1	Man-portable	56 x 17 x 8 in.	7.3 kg	Rifle-style portable counter-measures.
1 km	2.4 GHz ISM 5.8 GHz ISM GNSS L2 and L1	Man-portable	23 x 20 x 12 in.	15.7 kg	Covert (Pelican Case) portable counter-measures.
3000 m (min)	Frequency bands: 400/900 MHz, 2.4 GHz, 5.8 GHz, GPS & GLONASS L1	Grd-fix, grd-mob, man-portable	*	37 kg	Acoustic sensors for perimeter sensing and alert; drone and operator handling; swarm handling.
*	*	Grd-fix, grd-mob	Config dep.	Config dep.	Detect, track and characterize multiple drones from different directions; automatic or manual operation; open and scalable configuration; algorithms for target characterization.
300 m - 2.5 km	400 MHz, 900 MHz, 2.4 GHz, 5.8 GHz, GFSK/OFDM/FH/ DSSS	Grd-fix, grd-mob, shp	Config dep.	Config dep.	Detect, track and defeat multiple drones from different directions; take control of most commercial drones; automatic or manual operation; minimize interference to wireless connection operative in the area; algorithms for target classification and identification.
*	*	Grd-fix	*	*	Can be configured with the company's ELM- 2026D, ELM-2026B and ELM-2026BF for short (10km), medium (15km) and long (20 km) ranges; EO sensors can provide visual identification.

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Hensoldt Holding Germany GmbH; Taufkirchen, Germany; +49.89.51518-0; www.hensoldt.net					
XPELLER	Radar; EO/IR; RF, including radar classifier	Radar; EO/IR; RF	Sector, LOB or Positon	Yes	RF/GNSS jamming, Hunter drone
H.P. Marketing & Consulting Wuest GmbH; Reinfeld, Germany;+49 4533 7011-0; www.hp-jammer.de					
HP 47	*	*	*	*	Jammer Dronegun
HP 3055T	*	*	*	*	Modular Rack Jammer
HP 3962 H	*	*	*	*	Trolley Case Jammer
Jordan Electronic Logistics Support Co.; Amman, Jordan; +962796679716; www.jels-tech.com					
Sky Sweeper	ESM	electronic scanning	electronic scanning	Yes	Smart jamming
Kirintec Ltd; Ross-on-Wye, Herefordshire, UK; +44 (0) 1989 568350; www.kirintec.com					
Sky Net Longbow	Sensor agnostic	Sensor agnostic	Sensor agnostic	K- Net Mesh Network	RF jamming of control, video and GPS links
Sky Net Recurve Max	Sensor agnostic	Sensor agnostic	Sensor agnostic	K- Net Mesh Network	RF jamming of control, video and GPS links
Sky Net Recurve	Sensor agnostic	Sensor agnostic	Sensor agnostic	K- Net Mesh Network	RF jamming of control, video and GPS links
L-3 Communications ASA Ltd; Fleet, Hampshire, UK; +44 (0) 1252 775750; www.l-3asa.com / www.l3-droneguardian.com					
L3 Drone Guardian™	Sensor agnostic to suit protected area, including: Radars, EO/IR, Acoustic, ESM (RF TDOA), and DF	Sensor agnostic to suit protected area, including: Radars, EO/IR, Acoustic, ESM (RF TDOA), and DF	Yes	L3 Drone Guardian C2 system operates in automatic autonomous mode and manual mode with browser-based GUI for workstation or mobile devices	RF barrage jamming of drone control links, GPS and GLONASS targeted RF jamming
Leonardo Airborne and Space Systems; Luton, Bedfordshire, UK; +44-0-1582 886478; www.leonardocompany.com					
Falcon Shield	Radar, ESM	ESM, NERIO EO, thermal and laser rangefinder sensors	*	Vantage C2 and Situational Awareness System	RF jamming of command link
Lockheed Martin; Bethesda, MD, USA; +1 607-751-3199; www.lockheedmartin.com					
ICARUS	ESM	EO, acoustic	*	*	RF barrage jamming; control link manipulation
METIS Aerospace Ltd; Lincoln, Lincolnshir, UK; +44 (0) 1522 963125; www.metisaerospace.com					
SKYPERION	ESM	ESM	Yes	Yes	*
Netline Communications Technologies; Tel Aviv, Israel; +972-3-6068100; www.netlinetech.com					
C-Guard DroneNet	ESM	ESM	*	*	RF jamming
Rafael Advanced Defense Systems Ltd.; Haifa, Israel; +972-4-8795143; www.rafael.co.il					
Drone Dome	ESM, radar	EO/IR	*	Yes	RF jammer; high-energy laser
Rohde & Schwarz; Munich, Germany; +49 89 4129-0; www.rohde-schwarz.com					
R&S®ARDRONIS - P	RF Receiver - reliable signal classification (20 MHz - 6 GHz); W-LAN receiver	Geolocation of drone uplink and downlink signals	R&S DDF 550	R&S®ARDRONIS Control Center, Protobuf open interface	RF smart follower/sweep jammer - selective disruption; W-LAN link - selective disruption

COUNTERMEASURES RANGE	JAMMING FREQ./ BANDS	PLATFORM	SIZE (in./cm)	WEIGHT (lb/kg)	FEATURES
Up to 9 km	500 MHz up to 6 GHz + GNSS	Manpack (Gear); grd-mob (Rapid); grd-fix (Guard);	Config dep.	Manpack starting from 22 kg; grd-mob & grd-fix starting from 60 kg	Modular counter-UAV solution to address individual user groups (civil and military) requirements in regards to mobility, range and countermeasures; radar classifier (Doppler analysis); ITAR free.
*	Customizable	Man portable	*	7.5 kg	All in one piece, no backpack needed.
*	Customizable	Grd-fix, grd-mob	19-in. rack	*	Open interface; directional and omnidirectional jamming possible.
*	Customizable	Man portable (Trolley)	Customized	*	Mobile version.
No less than 3 km	2.4 GHz & 5.8 GHz	Grd-fix, grd-mob	1200 x 700,850 mm	70 kg	Network centric, platform identification, multi-jamming cell.
9 to 1 ratio	Fully programmable between 20 MHz - 6GHz	Grd-fix, grd-mob	10 (H) x 20 (W) x 17 (D) in.	41 kg	Fully and rapidly programmable system covering all known and likely future threats. Completely sensor agnostic.
6 to 1 ratio	Fully programmable between 20 MHz - 6GHz	Grd-fix, grd-mob	18 (H) x 12 (W) x 11 (D) in.	20 kg	Fully and rapidly programmable system covering all known and likely future threats. Completely sensor agnostic.
4 to 1 ratio	Fully programmable between 400 MHz - 6GHz	Man-portable	18 (H) x 12 (W) x 5 (D) in.	10 kg	Fully and rapidly programmable system covering all known and likely future threats. Completely sensor agnostic.
Antenna power options to suit protected area and anticipated pilot locations	Targeted jamming from 20 MHz - 6 GHz	Grd-fix, grd-mob	Config dep.	Config dep.	Multiple sensor types resulting in a high probability of detection, accurate tracking and false alarm filtering; L3 simplified C2 GUI and alerting system with integration to PSIM and jammers.
*	*	Grd-fix, grd-mob, man-portable	*	*	Option for advanced electronic attack capability to deny, disrupt or take control of UAV command and data links.
*	*	Grd-fix, grd-mob	*	*	*
*	30 MHz - 18 GHz	Grd-fix, grd-mob, air; shp	Manpack or 40 x 40 x 15 cm to 80 x 80 x 45 cm	12 kg	Scalable meshed network ESM capability. 30MHz to 18GHz, standard format for C-UAS 400MHz to 6GHz. TRL9 Optional EA Jamming capability.
*	20 MHz - 6 GHz	Grd-fix	*	*	*
*	*	Grd-fix; man-portable	*	grd-fix, portable	*
Smart Jammer: max 2/3 of detection range; W-LAN: up to 500 m	20 MHz - 6 GHz; W-LAN (2.4 GHz and 5.8 GHz) disruption	Grd-fix, grd-mob	Devices: integrated box with 2 x 19 in., 6 HU; DF antenna: 0.34 x 0.42 m; jamming antenna: 0.21 x 0.28 m; W-LAN antenna: 0.72 x 0.075m	80 kg	Detection of multiple drones and RCs, device classification, direction finding of drones and RCs, localization (based on multiple DFs) of drones and RCs, W-LAN drone detection and link disruption, intuitive GUI, automatic warning, white listing, automatic remote notification, smart jamming of single drone, jamming of multiple drones, video stream visualization.

MODEL	DETECTION SENSORS	TARGET TRACKING SENSORS	DF SYSTEM	C2 SYSTEM	COUNTERMEASURES
R&S®ARDRONIS - D	RF Receiver - reliable signal classification (20 MHz - 6 GHz); W-LAN receiver	Geolocation of drone uplink and downlink signals	R&S DDF 550	R&S®ARDRONIS Control Center, Protobuf open interface	W-LAN link - selective disruption
R&S®ARDRONIS - R	RF Receiver - reliable signal classification (20 MHz - 6 GHz); W-LAN receiver	*	*	R&S®ARDRONIS Control Center, Protobuf open interface	RF smart follower/sweep jammer - selective disruption; W-LAN link - selective disruption
SESP; Paris, France; +33 (1) 73 04 91 17; www.sesp.com					
Drone Defeater	*	*	*	*	RF control link jamming; GNSS jamming
Systems & Processes Engineering Corporation; Austin, TX, USA; +1 512-479-7732; www.spec.com					
ADEP Blade	Radar	Radar	*	Yes	RF barrage jamming, control link manipulation, GPS/GNSS jamming, DRFM based anti-radar/anti signal techniques
SRC, Inc.; North Syracuse, NY, USA; +1 315-452-8000; www.srcinc.com					
Silent Archer® Counter-UAS Technology	Any one or combination: AN/TPQ-50 with LSTAR® air surveillance software; SkyChaser® on-the-move radar; Gryphon R1410 multi-mission radar SRC EW systems for RF detection	Any one or combination: AN/TPQ-50 with LSTAR® air surveillance software; SkyChaser® on-the-move radar; Gryphon R1410 multi-mission radar	WhisperHunter spectrum sensor, Gryphon S1200 spectrum sensor	Yes	SRC EW systems for full spectrum electromagnetic engagement
TCI International; Fremont, CA, USA; +1 510-687-6100; www.tcibr.com					
TCI Drone Detection Systems	Yes	RF receiver	Yes, DF on drone, DF on drone controller	Yes	*
Thales Air Systems; Paris, France; +33 (0) 1 79 61 40 00; www.thalesgroup.com					
Counter UAS	Squire radar, Black Finder DF	Margot 8000 EO system	Yes	Yes	RF jamming
WhiteFox Defense Technologies, Inc.; San Luis Obispo, CA, USA; +1 805-240-9690; www.whitefoxdefense.com					
DroneFox	Passive (non-detectable) RF	Passive RF & proprietary algorithm.	Yes	Yes	Drone control protocol via safe & selective algorithm.
Scorpion	Passive (non-detectable) RF	*	No	No	Control break via safe & selective algorithm.

SURVEY KEY - COUNTER-UAS SYSTEMS

MODEL

Product name or model number.

DETECTION SENSORS

Indicates sensors types and models used to detect and acquire the target UAS.

- ESM = electronic support measures

TARGET TRACKING SENSORS

Indicates sensor types and models used to track the target UAS.

DF SYSTEM

Indicates if a direction finding (DF) system is used to determine the direction of the drone and/or the drone operator.

C2 SYSTEM

Indicates if the system provides a command and control system to manage tracking sensors and countermeasures.

COUNTERMEASURES

Indicates the type of countermeasures and/or the countermeasures techniques the system employs to defeat the target drone.

COUNTERMEASURES RANGE

Indicates the typical effective range of the Counter UAS system's countermeasures.

JAMMING FREQUENCIES

Indicates the system's jamming frequencies in MHz or GHz.

COUNTERMEASURES RANGE	JAMMING FREQ./ BANDS	PLATFORM	SIZE (in./cm)	WEIGHT (lb/kg)	FEATURES
W-LAN: up to 500 m	W-LAN (2.4GHz and 5.8 GHz) disruption	Grd-fix, grd-mob	Devices: integrated box with 1 x 19 in. 6 HU; DF antenna: 0.34 x 0.42 m; W-LAN antenna: 0.72 x 0.075 m	40 kg	Detection of multiple drones and RCs, device classification, direction finding of drones and RCs, localization (based on multiple DFs) of drones and RCs, W-LAN drone detection and link disruption, intuitive GUI, automatic warning, white listing, automatic remote notification, video stream visualization.
Smart Jammer: max. 2/3 of detection range; W-LAN: up to 500 m	20MHz - 6 GHz; W-LAN (2.4GHz and 5.8 GHz) disruption	Grd-fix, grd-mob	Devices: integrated box with 1 x 19 in., 6 HU; jamming antenna: 0.21 x 0.28 m; W-LAN antenna: 0.72 x 0.075 m	40 kg	Detection of multiple drones and RCs, device classification, W-LAN drone detection and link disruption, intuitive GUI, automatic warning, white listing, automatic remote notification, video stream visualization.
*	*	Grd-mob	*	*	*
*	20 MHz to 2.5 GHz, opt. to 3.6 GHz	Grd-fix, grd-mob, man-portable	5 x 7.9 x .89 in.	<2 lb	Full remote control and very low power requirements; backpackable comms jammer and low frequency radar DRFM; can also be used on any test range to provide either distributed ES/EA and can be synchronized over wireless Ethernet control.
*	*	Grd-fix, grd-mob, air	Config dep.	Config dep.	Detects, tracks, identifies and defeats single drones and swarms; uses a system of systems approach and can be integrated with other sensors and defeat technologies.
*	*	Grd-fix, grd-mob	Grd-fix: 126 x 95 x 23 in.; grd-fix: 47 x 26 x 30 in.; grd-portable: 14 x 18 x 14 in.	Grd-fix: 210 lb; grd-portable: 46 lb; antenna: 29 lb	Fully integrated system with antennas, receivers and operator terminals; 20MHz to 8GHz coverage; automatically detects drones and their radio controllers; geolocates and tracks the drone and/or controller.
*	*	Grd-fix; man-portable	*	*	*
1 km	*	Grd-mob	30.63 x 23.06 x 27 in.	181.95 lb / 82.5 kg	Drone threat detection, identification and mitigation device; passively analyzes radio frequencies (RF) being transmitted by drones, and through a series of safe a selective proprietary algorithms enables the user to lock out the original pilot and return the drone to its operator. Whitelist capable.
500 m	*	Man-portable	2 x 3 x 1.25 in.	3.5 oz / 100 g	RF-signal denial device that autonomously detects and defeats targeted wireless devices without barrage jamming. Whitelist capable.

air = airborne

grd-fix = fixed ground installation

grd-mob = ground mobile vehicle

shp = ship based

SIZE

H x W x L/D in inches, millimeters or centimeters

WEIGHT

Indicates system weight in pounds (lb) or kilograms (kg)

Additional features

* Indicates answer is classified, not releasable or no answer was given.

**JUNE 2019 PRODUCT SURVEY:
AIRBORNE EW SELF-PROTECTION SUITES**
This survey will cover integrated EW self-protection suites for aircraft. Please e-mail JEDEditor@naylor.com to request a survey.