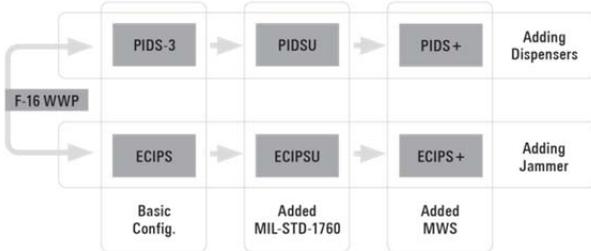# Pylon-based EW solutions –
Proven and integrated EW solutions for fighter platforms

As part of its integrated EW solutions, Terma A/S has since 1985 been providing pylon-based solutions for improved self-defense at a cost effective price. As further outlined below, these pylon-based solutions have been provided in several different configurations for fighter aircraft and can be customized based upon specific requirements.

Terma has produced 1,500+ new as well as modified/retrofitted pylons for F-16 with EW capabilities. In support of different operational capabilities, Terma A/S offers a series of standard pylon configurations which are based on the Lockheed Martin Wing Weapon Pylon (WWP), but with upgraded capabilities:

The above capabilities are added while retaining all conventional weapons and Electronic Countermeasures (ECM) pod capabilities, and the flexible pylon design can accommodate various IR/UV Missile Warning Systems (MWS).

It is of course possible to configure aircraft with combinations of the above, e.g. one ECIPS+ pylon and one PIDS+ pylon.

While still customizable, these standard configurations have provisions and support for today's requirements in relation to e.g.:

- MIL-STD-1760 (smart weapons) interface
- Chaff dispensers (e.g. Terma's ACMDS or AN/ALE-47)
- Missile Warning Systems (e.g. AN/AAR-60)
- Electronic countermeasures, RF jamming (e.g. AN/ALQ-162(V)6)

ECIPS+ pylon on RDAF F-16
Photo: RDAF, Flyvevåbnets Fototjeneste

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Pylon-based EW solutions

Flare dispenser option (Flare-Up). The threat scenario, especially when operating from deployed bases, is shifting towards increased IR threats – not least MANPAD's. The PIDS was originally designed for Chaff Dispense, but a Field Upgrade Kit comprising special magazines and a modified Breech plate will allow dispense of Flares from the PIDS versions. The Flare-Up Kit was developed in late 2009 and was Seek Eagle certified in 2013.

Ground Support Equipment for the Terma pylon versions includes Pylon Maintenance Stands, Pylon Test Adaptors, and Pylon EW tester (PEWT).

The PEWT is a test set designed to complement the 16U75500-855 Stores Release Test Set (SRTS) or equivalent such as the Stores System Tester (SST).

The Flare-Up Kit

Pylon EW Tester (PEWT)

	SWWP	PIDSU	PIDS +	ECIPSU	ECIPS +
Part number	541-1100-xxx	543-1100-xxx	544-1100-xxx	545-1100-xxx	546-1100-xxx
Magazines	Design provisions	3 per pod	2 per pod	Not applicable	Not applicable
MWS	Design provisions	Design provisions	3 sensors per pylon (Total of 6 sensors)	Design provisions	3 sensors per pylon (Total of 6 sensors)
Jamming	Design provisions	Design provisions	Design provisions	AN/ALQ-162(V)6	AN/ALQ-162(V)6
Interfaces	MIL-STD-1760 and conventional weapons via ACRIU				
Cockpit control	Terma AN/ALQ-213(V) EWMS or equivalent				
Visual warning	Terma Advanced Threat Display (ATD) or Head-Up Display (HUD) or Joint Helmet Mounted Cueing System (JHMCS)				
Audio warning	Terma 3D-Audio and mono audio integrated to existing voice message/aircraft intercom system				

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