

## ALL-IN-ONE COMMON FLIGHT-LINE TESTER

The 500-series Smart DVD continues the legacy of reliable and rugged ground support equipment which has been deployed across the globe in various configurations for F-16, F-35, F-15, and A-10.



### WP500-1 Smart DVD

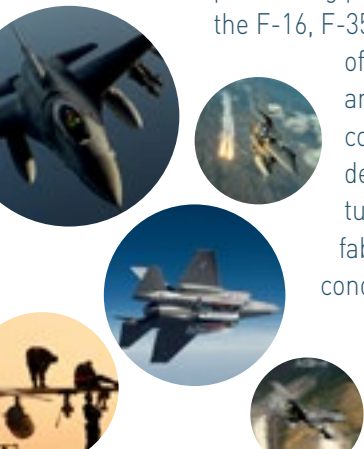
A single hand-held tester that could replace the current WP440, WP416, and WP435 DVDs. The new tester will also have the ability to perform automated TPS's using new cables/adapters and will have some new test functions, while maintaining the ability to utilize legacy cables & adapters to perform the same test functions as the current units.



## About WilliamsRDM

WilliamsRDM is a leading developer and manufacturer of ground support equipment, armament system testers, cables, and connectors used for performing preload and I/O level testing on platforms including the F-16, F-35, F-15, F-18, F-22, A-10, and V-22. We have decades of experience in all phases of electrical, mechanical, and software engineering. We have a reputation for consistently meeting customer requirements for quality, delivery, risk, and value. WilliamsRDM is a complete turn-key operation; all manner of business—from fabrication and assembly to design and engineering—are conducted in-house.

WilliamsRDM is a woman-owned, small business operating in Fort Worth, Texas since 1963.



### So, What's New?

**3RD GENERATION CABLES**  
Cable jackets are flexible yet durable with strain relief up to 75 lbs. Environmentally sealed. Threaded backshells for field repairability.

**IMPROVED USER EXPERIENCE**  
The DVD interface is easily read in low light or direct sunlight. The user can see the actual measurements.

**INCREASED BATTERY LIFE**  
Battery life has been extended to 50 hours with use of two COTS "AA" batteries and a low-power design.

**PREFERRED TESTER**  
DACTS and DVD are the preferred preload testers in seven countries.

# AME INTERFACES

## F-16



AIM-7 Missile Interface Cable

AIM-9/AIM-9X/AIM-120 Missile Interface Cables

BRU-46/A Bomb Rack

BRU-57 Bomb Rack (2-unit Smart Bomb Rack)

BRU-61 Bomb Rack (4-unit Smart Bomb Rack)

LAU-68 A/A, B/A, LAU-131/A Umbilical (Rocket Launcher)

LAU-88, LAU-117 Umbilical (Launcher for AGM-65 Maverick)

LAU-118 1/A & 4/A Umbilical (Launcher for AGM-88 HARM)

LAU-129 (Launcher for AIM-9 and AIM-120)

SUU-20 (Practice Bomb Adapter)

TER-9 & TER-9/A & TER-9A MOD (Triple Ejector Rack)

M61A1 Vulcan Gun

16S210 Launcher

HIAK Block I and II Umbilical Test

Dual Rail Adapter

Possible additions:

Centerline Pylon

Wing Weapons Pylon

## F-35



IRCM adapter

RFCM adapter

ARL adapter

## F-15



BRU-46/A Bomb Rack

MAU-12 (Ejector Rack)

LAU-106/A (Launcher for AIM-7 and AIM-120)

LAU-117 umbilical test (Launcher for AGM-65 Maverick)

LAU-128 (Launcher for AIM-9 and AIM-120)

SUU-20 (Practice Bomb Adapter)

M61A1 Vulcan Gun

## A-10



*Only legacy mode will be used for A-10. No fully automated TPS's will be developed for the A-10.*

SUU-25/LAU-3A MER/TER

LAU-88, LAU-117 Launcher (Launcher for AGM-65 Maverick)

MAU-40 & MAU-50 (Ejector Rack)

MER/TER-9 & TER-9/A (Triple Ejector Rack)

## TECHNICAL SPECIFICATIONS

### MAXIMUM INPUT VOLTAGE

+/- 330 Vdc / 240 Vac

### BATTERIES

Li Ion rechargeable

### BATTERY LIFE

>50 hours in normal operating mode

### SIZE

Kit: 26.5"W x 18.9"D x 13.4"H  
(67 cm x 48 cm x 34 cm)

DVD: 5" H x 2.3"W x 2.5"D  
(13 cm x 6 cm x 6 cm)

### WEIGHT

DVD: 0.94 lb (.426 kg)

### TEMPERATURE

Operating: -40 C to 60 C

### ENVIRONMENTAL/EMI

Mil-Std-810 / Mil-Std 461

### DIGITAL DISPLAY

LCD, readable in all light conditions

### CALIBRATION CYCLE

24 months in normal operating mode (AFMETCAL)

### ACCURACY

DC: 2% typical, 5% max    AC: 5% max, true rms  
10Hz to 10kHz

### INPUT PROTECTION

SV/EED Overload Protection

### STRAY VOLTAGE

3 ohm / 1.5 ohm Load

### EED TEST

EED1: 2.5A +/- 0.5 A    EED2: 4.25A +/- 0.25 A

### MISSILE DIAMOND ROTATION

AIM-9/16S210 and LAU-129 FWD

### MISSILE AUDIO GENERATION

AIM-9/16S210 and LAU-129 Mid-body & FWD

### HIGH VOLTAGE CHECK

115VAC, 175VDC, 270VDC

### AVIONICS DATABUS

Mil-Std 1553 / 1780 BC/RT

### LAU-1VMID-BODY CHECK FOR AIM-9X/AIM-120

Mil-Std 1760 transmit / Receive

MUX Address Check

28VDC

115VAC 3 Phase