KNOW BEFORE YOU GO™

TEXTRON Systems

Hydra Laser Warning Receiver Test Set

Part Numbers: EU00036-03-FG (Hydra v3) EU00036-04-FG (Hydra v4) EU01264-02-FG (HCU v3) EU01264-03-FG (HCU v4)

Specifications subject to change without notice.

Providing confidence and reliability through total spectrum test and training solutions.

The Hydra test set is used to stimulate laser warning receiver systems such as the AN/AAR-47(V)2, AN/AVR-2(A/B), LSU, ALTAS-2Q(B), COLDS NG, LWS-20, RALM and SELEX-1223. It is a rugged, battery-operated test set that can be handheld or supported on a simple tripod.

The Hydra v3 contains one 905-nanometer (nm) and one 1,550-nm pulsed laser, with the Hydra v4 housing an additional 905-nm continuous wave (CW) laser. Hydra test sets can simulate a number of laser threats including beam riders, target designators and range finders.

Hydra can be operated from typical standoff ranges of 5-15 meters (m) or 15-50 feet (ft.) from laser warning receiver system sensors, depending on laser warning receiver sensitivity. An optional software management package called the Hydra Control Utility, or HCU, can be supplied for the creation and downloading of threat data, as well as for remote control of the test set via a Recommended Standard (RS) 232 serial port.

Specifications

Performance:
- Hydra v3, two lasers (one 905 nm and one 1,550 nm)
- Hydra v4, three lasers (one 905 nm, one 1,550 nm and an additional CW 905-nm laser)
- Effective range to warner typically greater than 5-15 m or 15-50 ft.
- Maximum test duration 10 seconds
- Standby time less than or equal to 2 seconds

Test profiles: Up to nine threat programs can be stored for repeat use

	Lasers 1 and 2	Laser 3 (Hydra v4 only)
Pulse amplitude	Fixed	CW with modulation
Pulse repetition rate	Single shot to 10 kilohertz (kHz)	N/A
Pulse width	17-20 nanoseconds (ns)	N/A
Pulse rise time (to maximum power)	Less than 15 ns	N/A
Peak CW power	N/A	3.5 milliwatts (mW) (±0.5 mW)
Modulation frequency bandwidth	N/A	38 kHz
Modulation depth	N/A	Greater than 80 percent

Laser class:
- Classification 1M

Power supply:
- Rechargeable battery
- External 12 volts direct current (VDC) via utility port

Indicators:
- Battery status
- Ready
- Operational

Controls:
- On/off switch and trigger on the hand grip
- Profile selector switch

Utility port:
- RS 232 serial communication port
- Remote external trigger (by contact closure)
- External battery charge
- External 12 VDC power input

Dimensions:
- 405 millimeters (mm) x 115 mm x 135 mm, or 16 inches (in.) x 4.5 in. x 5.3 in., excluding handle
- Mass 4.4 kilograms (9.7 pounds) including battery pack

Color:
- NATO green plus yellow removable strip

Environment:
- Operating temperature -20 to 55 degrees Celsius (°C) excluding batteries
- Storage temperature -40 to 71°C
- CE marked
- Sealed to International Protection Code 65
- Designed to the requirements of MIL PRF 28800F and DEF STAN 66-31
- ATEX compliant to EN60079-15 for Zone 2, Category 3 equipment (Temperature Class T3)

Transport case: Containing ancillaries including the Hydra unit, one spare rechargeable battery pack, socket driver, battery charger and cable, and operation/maintenance manual

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