

KNOW BEFORE YOU GO™



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 two near-infrared (IR) pulsed lasers, with the Hydra v4 housing an additional continuous wave (CW) near-IR 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 Configuration Utility 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.

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.

Specifications

Performance:	<ul style="list-style-type: none"> ■ Hydra v3, two near-IR pulsed lasers ■ Hydra v4, two near-IR pulsed lasers and an additional CW near-IR 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:	<p>Up to nine threat programs can be stored for repeat use</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;">Lasers 1 and 2</td> <td style="width: 33%;">Laser 3 (Hydra v4 only)</td> </tr> <tr> <td>■ Pulse amplitude</td> <td>Fixed</td> <td>CW with modulation</td> </tr> <tr> <td>■ Pulse repetition rate</td> <td>Single shot to 10 kilohertz (kHz)</td> <td>N/A</td> </tr> <tr> <td>■ Pulse width</td> <td>17-20 nanoseconds (ns)</td> <td>N/A</td> </tr> <tr> <td>■ Pulse rise time (to maximum power)</td> <td>Less than 15 ns</td> <td>N/A</td> </tr> <tr> <td>■ Peak CW power</td> <td>N/A</td> <td>3.5 milliwatts (mW) (±0.5 mW)</td> </tr> <tr> <td>■ Modulation frequency bandwidth</td> <td>N/A</td> <td>38 kHz</td> </tr> <tr> <td>■ Modulation depth</td> <td>N/A</td> <td>Greater than 80 percent</td> </tr> </table>		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
	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:	<ul style="list-style-type: none"> ■ Classification 1M 																								
Power supply:	<ul style="list-style-type: none"> ■ Rechargeable battery ■ External 12 volts direct current (VDC) via utility port 																								
Indicators:	<ul style="list-style-type: none"> ■ Battery status ■ Ready ■ Operational 																								
Controls:	<ul style="list-style-type: none"> ■ On/off switch and trigger on the hand grip ■ Profile selector switch 																								
Utility port:	<ul style="list-style-type: none"> ■ RS 232 serial communication port ■ Remote external trigger (by contact closure) ■ External battery charge ■ External 12 VDC power input 																								
Dimensions:	<ul style="list-style-type: none"> ■ 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:	<ul style="list-style-type: none"> ■ NATO green plus yellow removable strip 																								
Environment:	<ul style="list-style-type: none"> ■ 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:	<ul style="list-style-type: none"> ■ Containing ancillaries including the Hydra unit, one spare rechargeable battery pack, socket driver, battery charger and cable, and operation/maintenance manual 																								

For information within the United States, please contact:

AAI Corporation
124 Industry Lane
Hunt Valley, MD 21030
800-655-2616
AAI_EO_IR@aai.textron.com

For information outside the United States, please contact:

ESL Defence Limited
16-17 Compass Point, Ensign Way
Hamble, Southampton Hampshire
SO31 4RA
+(44) 2380455110
sales@esldefence.co.uk