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PHOTONIC DISRUPTOR / GREEN - 105®



Model Number	PD/G-105
Output Power	105mW
Output Wavelength	532nm
Beam Diameter	~1.5m
Beam Divergence	<1.5mrad; fully focusable out to 3°
Operating Mode	CW; 3000 Hz pulse
Dimensions of laser head (mm)	13(diameter) x 150(L)
Net weight(2 batteries included)	78 grams
Laser power supply	2 x AAA/1.5V batteries
Dimension of batteries	10(dia.) x 45(L.)mm
Polarization	Linear (50:1)
Switch	Push Button
Radiation on-time per firing (continuous on)	5 Seconds
Guaranteed Effective Range in darkness (m)	350m
Operating lifetime(hours)	3000-5000
Color	Black



Threat Assessment Laser Illuminator (T.A.L.I.)

The PD/G TALI enables a spectrum of non-lethal response for Peace Keepers and Law Enforcement officials that will assess, deter, and preclude a potential risk through the use of eye safe, high intensity laser technology. The TALI affords the user a viable solution for intermediary defense tactics and the ability to assume control of a threat prior to escalation.

PHOTONIC DISRUPTOR/GREEN-105®

Competitive Advantage:

The XADS TALI systems are exceptionally distinct from other superficial "light distraction" technologies, which use high-brightness light bulbs or LEDs. The PD/G-105 provides portability, rugged durability, efficiency, longer range, cost effectiveness, and versatility to comparable laser-based products on the market. The following table illustrates the differences:

Feature:	High Brightness Flashlights	Industrial Spotlights	Other Laser "Dazzlers"	PD/G-105 T.A.L.I.
Range:				
* Illumination	150 m	3000 m	3000 m	3000 m
* Distraction	50 m	200 m	2000 m	2000 m
* Flash-blinding	15 m	100 m	350 m	350 m
Vehicle Stopping	N/A	50 m	300 m	300 m
Length/Weight	140-180mm / 100-120grams	2-4 meters (trailer) /300 kg	400-500 mm / 2-3 kg	150 mm/ 78 grams
Diameter:	50-80mm	1-2 meters	60-100 mm	13 mm
Waterproof/Rugged?	Yes	No	Yes	Yes
Picatinny Rail mount for all weapons?	Yes	No	No	Yes
Solar Recharger Kit?	No	No	No	Yes
Battery Life/full intensity:	30 minutes	N/A - Generator	20 minutes	35 minutes
Price Range:	\$150-390	\$400-10,000	\$3000-6000	\$899-1399
In Production/ Available:	Yes	Yes	No	Yes

Eye Safety:

The XADS TALI systems have been tested and evaluated by the U.S. Department of Defense under the following commissions:

- * Joint Non-lethal Weapons Directorate (JNLWD),
- * Air Force Research Lab's Human Effectiveness Directorate Optical Research Branch (ARL-HEDO)
- * Army Testing and Evaluation Command (ATEC)

Each test lab has determined the TALI is eye-safe with proper usage. Even at full-focus, with the most concentrated power, the PD/G-105 is safe at ranges as close as 19 meters. At fully-diffused focal lengths, the unit is equivalently safe at even less than 1 meter. JNLWD and ATEC have both independently approved the PD/G-105 for sale and integration into the military.

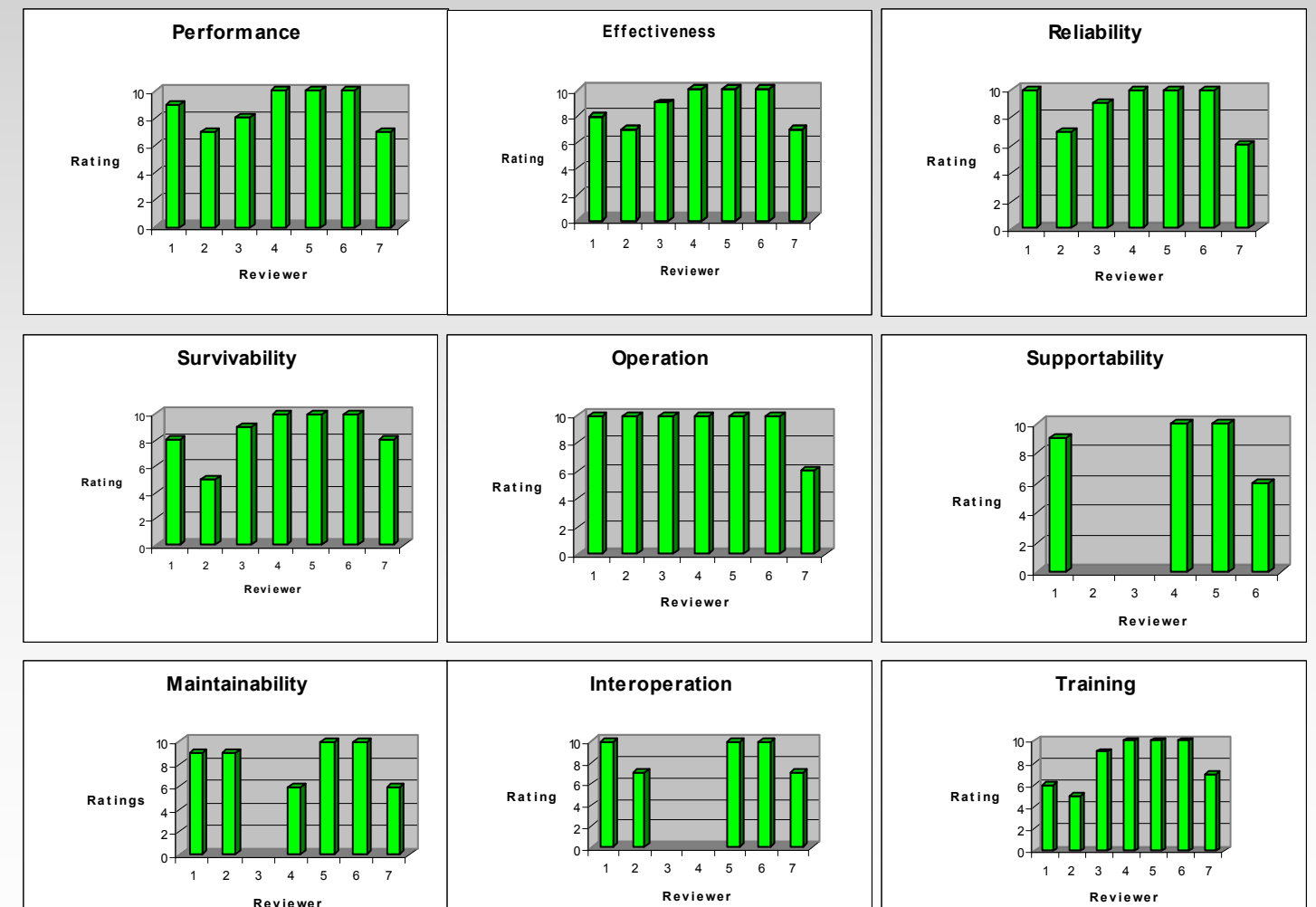
Field Evaluations:

In the Spring of 2005 the Army Rapid Equipping Force (REF), through the Joint IED Defeat Task Force Evaluation and Integration Team (JIETF), procured a minimal amount of TALI units for field testing in Operation Enduring Freedom (OEF). The units procured for evaluation were half the power of the PD/G 105 (>55mW). The field reports determined overwhelmingly affirmative performance and effectiveness ratings in a variety of applications. The following page contains a summation of the field reports:

"Easy to use. Stops vehicles proficiently. Good Field use." Evaluator, OEF 2005

THREAT ASSESSMENT LASER ILLUMINATOR®

Category		Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5	Reviewer 6	Reviewer 7
Performance	<i>Perform as expected?</i>	9	7	8	10	10	10	7
Effectiveness	<i>Meet requirements</i>	8	7	9	10	10	10	7
Survivability	<i>Adequately built for field use? Adequate training materials/support available?</i>	8	5	9	10	10	10	8
Training	<i>Adequate training materials/support available?</i>	6	5	9	10	10	10	7
Reliability	<i>Holds up under continual use?</i>	10	7	9	10	10	10	6
Maintainability	<i>Easily cleaned/Fixed? Parts/Procedures/Support readily available?</i>	9	9	N/A	6	10	10	6
Supportability	<i>Easy to operate?</i>	N/A	9	N/A		10	10	6
Operation	<i>Easy to operate?</i>	10	10	10	10	10	10	6
Interoperation	<i>Operates well with other systems?</i>	10	7	N/A	N/A	10	10	7
Average		8.75	7.33	9	9.43	10	10	6.67
Overall								8.74



"Used to deter personnel and vehicles from entering our convoys. It worked great! Vehicles were flashed with light but would not stop; once lasered (sic), the vehicle stopped immediately." Evaluator, OEF 2005.