

Appendix 8
General Requirements
Rating Summary

GENERAL REQUIREMENTS	Maxa Beam	Rating	Xenonics	Rating
RATINGS (see Section 3.0)				
7.2.1 Hand-held Xenon Searchlight		2		2
- Visible and Infrared (IR) operation	Yes		Yes	
- Portability using straps or belts.	Yes		Yes	
- Short arc Xenon lamp 5600 – 6000 degree K.	Yes, Not Tested		Yes, Not Tested	
- Lamp life 500 hrs minimum.	Yes, Not Tested		Yes, Not Tested	
- ID plate	Yes		Yes	
- Safety warning	Explosive safety warning		Eye safety warning	
- Strobe Capable	Yes		Yes, If factory programmed	
7.2.2 Rechargeable Battery Pack		2		2
- High impact, weather resistant	Yes, External		Not Applicable, Internal	
- Quick release without tools	Yes		Not Applicable, Internal	
- No external contacts for accidental discharge	Contacts internally protected		Not Applicable, Internal	
- Sustain 500 charge/discharge cycles	Yes, Not Tested		Yes, Not Tested	
7.2.3 Battery Carry Strap		2		2
- Adjustable	Yes		Yes	
- High strength, weather resistant	Yes		Yes	
7.2.4 Power Cord		2		1
From Battery pack to light				
- Five ft. min. uncoiled.	Yes		No; #1 3'-6", #2 4'-2"	
- Connectors self captivated and polarized.	Yes		Yes at Searchlight, but	
			In-line vehicular adapter is not	

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7.2.5 Battery Charger		2		1
- 12V DC output recharging unit must be available	Yes		Not Applicable, Internal	
- Operational on AC (110-240V 50-60Hz) or DC (12-32V)	No, DC available as option		No, AC only	
- Connectors self captivated and polarized.	Yes		Yes	
- Must provide a maintenance charge to maintain a full battery	Yes		Yes	
- Capable of vertical/bulkhead mount	Yes, except AC/DC converter		Fails to meet requirement	
- Holds a battery or battery and searchlight when mounted.	Yes		Fails to meet requirement	
7.2.6 Protective Lens Cover		2	Not provided for Test	-
- Pass 95% light from lamp	Yes, Opacity Not Tested		Yes, Opacity Not Tested	
- Snap on without tools for installation or removal	Twist on, less than 1/8 turn		Screw on, 2-1/2 turns	
7.2.7 Covert Infrared Filter		2		1
- At least one in the 800-900nm range	Yes, Frequency Not Tested		Yes, Frequency Not Tested	
- Snap on without tools for installation or removal	Twist on, less than 1/8 turn		Screw on, 2-1/2 turns	
7.2.8 Filter Pouch (1 per filter)		2	Not Provided for Test	-
- Attachable to belt or strap	Yes, nylon pouch w/belt loop		No, plastic case	
- Water resistant, Velcro type preferred	Yes		Yes, not velcro	
7.2.9 Amber filter		2	Not Provided for Test	-
- At least one in the 500-600nm range	Yes, Frequency Not Tested		Yes, Frequency Not Tested	
- Snap on without tools for installation or removal	Twist on, less than 1/8 turn		Screw on, 2-1/2 turns	
7.2.10 Rechargeable Battery Belt Pack Option		2		2
- Adjustable belt	Yes		Yes	
- Sustain 500 charge/discharge cycles	Yes, Not Tested		Yes, Not Tested	

Appendix 9
Performance Requirements
Rating Summary

PERFORMANCE REQUIREMENTS	Maxa Beam	Rating	Xenonics	Rating
RATINGS (see Section 3.0)				
8.1 Light Intensity		2		1
- 2000 ft-cd at 50' from optic	Yes		FAILS TO MEET REQUIREMENT	
- Illumination at 1.5 mi.	Yes		Yes	
8.2 Beam Spread at 100'		2		1
- 2' or less at minimum spread	Yes		FAILS TO MEET REQUIREMENT	
- 17' or more at maximum spread	Yes		Yes	
8.3 Battery Duration		3		2
Integral				
- 60 minutes minimum	Yes		Yes	
- 90 minutes preferred	Yes		No	
Belt				
- 60 minutes minimum	Yes		Yes	
- 90 minutes preferred	Yes		Yes	
8.4 Charger/continuous nighttime operation		2		2
- Continuous operation possible with supplied equipment	Yes		Yes	
-Recharge time less than 2x discharge time; battery belt	Yes		Yes	
-Recharge time less than 2x discharge time; integral battery	Yes		Yes	
8.5 Weight of hand held portion preferred less than 4lbs.	Yes	2	No	1

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8.6 One Hand Control		2		1
-Beam spread controlled from switchset, one hand control	Yes		No	
-Multiple intensity settings from the same switch set.	Yes		Yes	
-Same switch set can change mode from steady to strobe.	Yes		Yes, on strobe capable unit	
-Presetable beam width and strobe rate at start-up preferred	Yes/Yes		Yes, Manual/No	
-Operation possible with gloved hands	Yes		Yes	
8.7 IR illumination of objects at 1000m with NV goggles	Yes	2	Yes	2
8.8 Ease of handling		2		2
8.9 Ruggedized container	Yes	2	Yes	2
8.10 Environmental		1		1
-Water Resistance	Yes		Yes	
-Shock Resistance	No		No	
8.11 Materials and Workmanship		2		2
8.12 Documentation		1		1
-Eye safety documentation	Not Provided		Provided for similar unit	
-Operating manual	Yes		Yes	
-Instructional video preferred	Available		Not available	
8.13 Maintenance Kit		2	Not Provided for Test	-
- Replacement lamp, primary lens, power connector	Yes		Yes, No connector	
- Instructions/materials needed to complete maintenance	Yes		Yes	