

ORION SEARCHLIGHT



PERFORMANCE SPECIFICATIONS

VISIBLE LIGHT

INFRARED LIGHT

LAMP TYPE:		1600 WATT XENON SHORT ARC LAMP	1600 WATT XENON SHORT ARC LAMP
NVG COMPATIBILITY:			NVG GEN II/III
LAMP LUMEN OUTPUT AT 4° BEAM SPREAD:		60,000 LUMEN	
PEAK BEAM INTENSITY:		40-50 MILLION CANDLEPOWER	40-50 MILLION CANDLEPOWER
PEAK ILLUMINANCE AT 1,000 M (3,281 FEET):		32 LUX	
BEAM SPREAD/DIAMETER:		4° TO 13° VARIABLE	4° TO 13° VARIABLE
TARGET ID RANGE:		1,600 M (5,250 FEET)	1,000 M (3,281 FEET)
BEAM DIAMETER AT 1,000 M (3,281 FEET)	<ul style="list-style-type: none"> - AT 4° BEAM SPREAD - AT 13° BEAM SPREAD 	68 M (223 FEET) 214 M (702 FEET)	

OPTIONS

HAND CONTROL UNITS: WHITE PANEL BACKLIGHTING, GREEN PANEL BACKLIGHTING OR ANALOG JOYSTICK WITH NVIS GREEN PANEL BACKLIGHTING (MIL-STD-3009)

LASER DESIGNATOR: WAVELENGTH 850 NM, OPTICAL POWER < 5 MW, LASER CLASS 3B ACC. TO EN60825-1:2008-05

INTEGRATED FILTER MODULE: IR OR COLORED GLASS

SLAVING MODE: L-3 WESCAM: MX-SERIES, FSI: STAR SAFIRE III / STAR SAFIRE HD / ULTRA FORCE 350 / ULTRA FORCE II EP / ZEISS: LEO-III-HD / FLIR 8000/8500 / ELOP EOP COMPASS-III

LUMINATOR MAINTENANCE SYSTEM TERMINAL: FOR MAINTENANCE PARAMETER READOUT AND CONFIGURATION

For More Information, Please Contact:
aero_sales@LuminatorUSA.com
 900 Klein Road | Plano, Texas 75074 | +1-800-388-8205
www.LuminatorAerospace.com

ORION SEARCHLIGHT

MECHANICAL CHARACTERISTICS

DIMENSIONS:	16.5" L (418 MM) X 16.7" W (425 MM) X 16.8" H (427 MM)
WEIGHT:	65 LB (29.5 KG) (TOTAL SYSTEM WEIGHT)
WEIGHT HAND CONTROLLER:	1.1 LB (0.5 KG)
AZIMUTH ROTATION:	340° AT MAX 40°/S
ELEVATION (TILT) RANGE:	+10° -110° AT MAX 40°/S
GIMBAL CONTROL:	TWO-AXIS REMOTE CONTROL
FOCUS CONTROL:	STEP-LESS REMOTE CONTROL
SLAVING:	INTEGRATED SLAVING CAPABILITY, NO INTERFACE BOX REQUIRED
POWER MANAGEMENT:	INTEGRATED, NO JUNCTION BOX REQUIRED
INSTALLATION:	STANDARD PAYLOAD MOUNTING (I.E. MEEKER QDD-1, DT-1, DT-1A) OR CUSTOMIZED
KEEP OUT AREAS (AZIMUTH AND ELEVATION):	FIELD-PROGRAMMABLE SOFT-STOPPS AND MECHANICAL HARD STOPPS
COOLING:	REDUNDANT DUAL-FAN

ELECTRICAL CHARACTERISTICS

INPUT POWER:	28 V DC (26.0 – 29.0 V DC)
INPUT CURRENT:	70 A (RATED), ≥100 A (AT START UP)
STARTING TIME:	1 SECOND
RECYCLE TIME:	NOT REQUIRED
INTERFACES:	1 X HCU RS422, 1 X SLAVING RS422 OR RS232, 1 X MAINTENANCE RS232
DISCRETE INPUTS:	24
DISCRETE OUTPUTS:	10

ENVIRONMENTAL CONDITIONS

TEMPERATURE:	OPERATING:	-45 – +70 °C (-49 – +158 °F)
	STORAGE:	-55 – +85 °C (-67 – +185 °F)
HUMIDITY:		<80 % RH AT +5 ... 50°C

QUALIFICATIONS

RTCA/DO-178B COMPLIANT
RTCA/DO-160F TESTED

MAINTENANCE & RELIABILITY

ON CONDITION AND SCHEDULED MAINTENANCE
24 MONTHS WARRANTY

DOCUMENTATION

SYSTEM INSTALLATION MANUAL, MAINTENANCE AND GROUND HANDLING MANUAL, DDP, CERTIFICATE OF CONFORMITY (COC)
--

For More Information, Please Contact:
aero_sales@LuminatorUSA.com
900 Klein Road | Plano, Texas 75074 | +1-800-388-8205
www.LuminatorAerospace.com

