

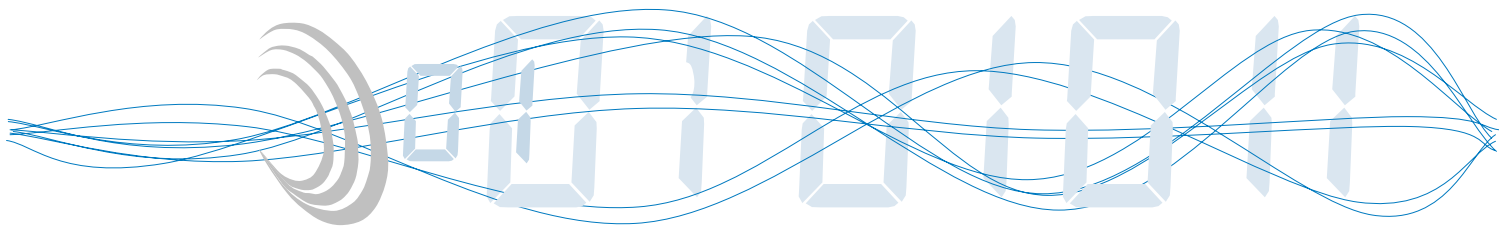


Master Control Light Station - MCS/L

The MCS/L provides interfaces for the vehicle power supply and connection of two on-board radios. The interfaces for both power and the radios are identical to those of the MCS. The MCS/L provides conditioned power and transfers digitised radio signals to the LV2 units within a system. The STATION interface on the MCS/L provides the proven digital and power conditioned lines for all other units connected to the system and enables transmission through slip rings. The MCS/L has three operating modes; (i) INT LIVE (hands free, hot mike communication on the intercom channels using a headset with an Intercom PTT facility); (ii) INT VOX (hands free, voice activated communication on the intercom channels using a headset with an Intercom PTT facility) in both of these modes full transmit and receive access to the radios is allowed and (iii) LISTENING SILENCE, in which all radio transmissions are disabled.



The MCS/L can be used with any other ROVIS or AN/VIC-3 unit to provide added capability. By combining the unit with the Remote Access System (RAS) a platform can be quickly converted to a reconnaissance vehicle or allow remote firing of missiles while maintaining communications with the on-board transceivers. If the MCS/L is connected to an FFCS/W, wireless communication between the platform crew and remote users can be maintained, in applications such as peace keeping or forward observation posts the wireless capability ensures that all communications is maintained between mounted and dismounted users.



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Specifications and Standards

Chelton products are designed and independently tested to international standards.

Environmental

Reliability (MTBF) - MIL-HDBK-217

Environmental - MIL-STD-810E :

Low Temperature (-40°C Operational, -57°C Storage, Method 502.3, Procedure I and II)

High Temperature (Hot, Method 501.3, Procedure I and II)

High Temperature plus Solar Radiation (+71°C, Method 505.3, Procedure I and II)

Humidity (Method 507.3, Procedure I and II)

Atmospheric Pressure (945 to 1060 millibars)

Elevation (Method 500.3, Procedure I and II)

Sand & Dust (Method 510.3)

Rain (Method 506.3, Procedure I)

Salt Fog (Method 509.3 Procedure 1)

Immersion (Method 512.3, Procedure I)

Vibration (Method 514.4, Procedure 1, Category 8)

Shock (Method 516.4, Procedure IV and VI & MIL-S-901)

Fungus (Method 508.4)

Explosive Atmosphere (Method 511.3, Procedure 1)

Electromagnetic Compatibility - MIL-STD-461C

Part 4 (CE01, CE03, CE07, CS01, CS02, CS06, RE02, RS02 and RS03)

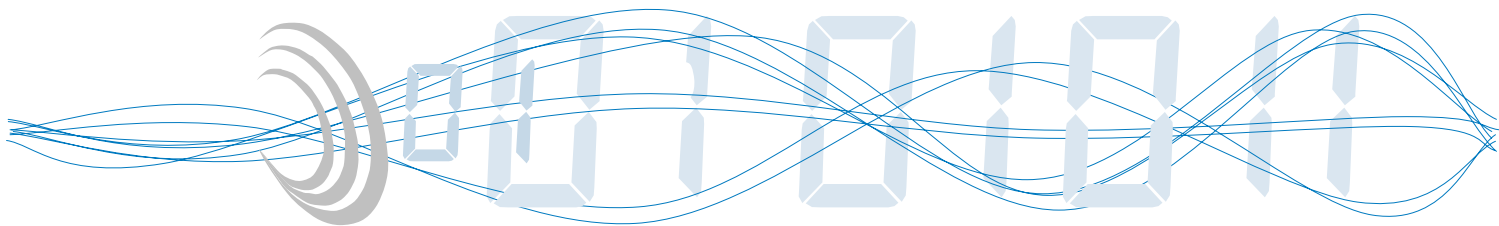
Electromagnetic Pulse - MIL-STD-461C part 4, (RS05 and CS11)

Electrostatic Discharge - IEC 801-2:2, level 4

Rapid Speech Transmission Index (RASTI)

Mechanical Dimensions and Weights

Height (mm)	Width (mm)	Depth (mm)	Mounting (mm)	Weight (kg)
78	140	115	140	0.9



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