



May 2015

## MASTER CONTROL UNIT (MCU), MIL QUALIFIED

- **64 in / 64 out / 2 quad out**
- **Advanced DVR**
- **Fully qualified to US Mil Spec**

The 0457-6008 Master Control Unit (MCU) is found at the heart of the Kongsberg Maritime Amphibious Low Light Surveillance System (ALLSS) and is typically located at a central signal marshalling and distribution point aboard the ship.

The MCU consists of a 64 input x 16 output video switcher and telemetry controller with 2 additional quad cards providing real-time quad camera images. An advanced 16 channel Digital Video Recorder (DVR) with up to 4TB internal storage on removable hard disk caddies is included. This unit will allow archiving of video to various media (DVD, USB) and additionally has a Local Area Network (LAN) interface.

A local rack mounted LCD monitor and front serial port panel are also included to assist in the configuration, diagnostics and maintenance of the system. The video distribution amplifier unit provides up to 32 buffered composite video outputs for distribution to other spaces around the ship.

- **Wire rope isolator shock mounts**

The MCU has been fully qualified to meet the stringent US Navy requirements of MIL-STD-901D 'Hammer' shock test as well as MIL-STD-461E EMI for surface ships.

### Applications

- **Naval Surface Ships**
- **CCTV Interface to Ship's Media**
- **Control**
- **Recording and Archiving**

## TECHNICAL SPECIFICATIONS

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### Performance

Video Switcher	64 inputs x 16 outputs
DVR	16 channels, 1.5TB removable HDD (other options available up to 4TB)
DVR Recording Rate	25/30 fps per channel, 200/240 fps max total (PAL/NTSC)
DVR Recording Resolution	720 x 576 (PAL), 720 x 480 (NTSC) Max
Video Export	DVD, USB and Network connection
Video Loop Through	32 channels of buffered video outputs
Monitor	17" SXGA LCD
Quad View	2 x quad cards, each combining 4 video channels to 1 video feed

### Electrical

Power Input	115V ac, 360VA nominal
Video Input	1V p-p (nominal) composite video
Video Output	1V p-p (nominal) composite video
Camera Telemetry Control	Up to 64 channels, RS485 or RS422
Keyboard Telemetry Control	Up to 16 channels, RS485 or RS422
Electro-Magnetic Compatibility	MIL-STD-461E Emissions MIL-STD-461E Susceptibility
Diagnostics	Front Panel test/configuration serial port

### Environmental

Temperature	MIL-STD-810F Operating: 0°C to +40°C / 95% RH, Storage: -20°C to +60°C
Vibration	MIL-STD-167-1A Shipboard, 4 to 25Hz
Shock	MIL-STD-901D, Grade B, Class II

### Mechanical

Size (H x W x D)	1.73m x 0.61m x 0.61m (excluding shock mounting kit and lifting eyes)
Weight	251.00Kg including mounting supports
Standard Housing	Steel frame painted matt black, Aluminum panels anodized.
Connector	Power: LMJ 3102R 14S-7P Video: BNC Telemetry: Glanded Network: RJ45

*Specifications subject to change without any further notice*

KONGSBERG MARITIME

Telephone: +44 1224 226500  
E-mail sales: [km.systems.uk@kongsberg.com](mailto:km.systems.uk@kongsberg.com)

[www.km.kongsberg.com](http://www.km.kongsberg.com)



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