

NETmc Marine DVR

Professional multi-channel digital video recording

MPEG digital video acquisition, management and databasing using custom hardware and software for total confidence



Traditionally the use of analogue video media has been the standard within the offshore Survey Industry for the storage and review of underwater visual inspection data. Often hundreds of video tapes are amassed in a single Survey job; from these, reports and archives are created.

With more and more reports being published in electronic form the visual data often remains the last remaining component to make a transition to the digital domain. The advantages of accessibility of data in such a digital form and the ability to transmit such within the framework of a standard electronic report with no additional degradation of quality is surely impetus enough to move this last information source into the digital domain.

The DVR & DRS products from NETmc Marine Ltd form an integrated digital

solution family addressing key aspects of digital video acquisition, storage, management and production. The DVR, a 3 channel digital video acquisition system, combines ruggedised and proven mediaVT technologies with on-line storage and archive facilities to provide an integrated solution to replace the existing analogue video acquisition solutions typically found on a Survey spread. The DRS, a digital review and production suite, provides digital media management and editing tools to enable the power of digital media to be exploited without the need for additional digital video editing tools and can be used in either an on-line review or post event analysis configuration.

At the heart of the DVR is NETmc's latest release digital media management and control software, allowing the DVR to not only compress and archive video data in real time but also to associate key telemetry data and job information

with every frame of the digital media. This video watermarking ensures that at all times the video data can be referenced to or by its real-world external telemetry parameters. Industry standard MPEG video compression is used to ensure that investments in digital media are not lost with changes in technologies.

NETmc Marine have taken from the best technologies and produced a 'ruggedised' solution that is both cost effective and 'fit for purpose' for the offshore Survey environment.

Unlike older analogue recording technologies, this digital replacement offers advantage in end to end quality, simplicity and speed of access to data for review, ease of transmission across communication links, where necessary and above all to eliminate costly tape changing resulting in loss of Survey time.

NETmc Marine DVR

Power Requirements	100–260Vac, 50–60 Hz
Power Consumption	5 x 300 W (peak)
Operating Temperature	5 to 40 degrees C
Dimensions	4 x [482(W) x 88.5(H) x 455(D) @ 15kg] 1 x [482(W) x 177(H) x 500(D) @ 26kg]
Video Stream Format	Selectable MPEG-1 / MPEG-2 -> Full D1
Bit Rates	MPEG-1, 600kbps - 4Mbps MPEG-2, 3Mbps - 10Mbps
Analogue Video Format	PAL / NTSC
Audio	Unbalanced Stereo
Network Support	100 Base T
Online Capacity	RAID5 level SCSI storage, optimized for video data transfer. Base configuration of 16 hours online storage, with simple upgrades to 32 hours, 64 hours and more.
Archive Media	Base configuration uses the DRS' DLT drive as final job archive / backup. Optional DLT drives can be fitted in the Control Module for local backup. 40/80 DLT tapes can store approx. 6 hours of databased 3-channel video and data.
Video Inputs	Y_C (S-VHS) input via SVIDEO Minidin socket
Composite	(-0.3 to +0.7) PAL/NTSC via BNC socket
Audio Inputs	Dual RCA
Network	100 Base T
Serial Ports	9 W D-Type
System Interconnects	M-Connect custom umbilical
Expansion	Connection to auxiliary storage modules and backup system components.