



Case Study

Project	Marine
Client	Canyon Offshore
Product	SNX-32x32+
Location	Worldwide



Smart-e equipment is used in a wide range of marine applications from commercial vessels to luxury superyachts.

Smart-e searches the ocean floor

The Smart-e SNX-32x32+ is broadcasting high resolution images and sound from Remote Operated Vehicles (ROVs) inspecting gas pipelines located deep on the world's ocean floors.

Equipment designed and manufactured by UK audio visual switching and distribution company Smart-e Limited, is being used to inspect gas pipelines located deep on the world's ocean floors.



Filmed from a Remote Operated Vehicle (ROV), which leaves a support ship to inspect the condition of gas pipes on the ocean bed, the Smart-e system enables the live transmission of high resolution images and sound to be broadcast from the ROV to the support ship, whilst allowing remote control of the ROV cameras.



shore oil and gas companies with a wide range of subsea construction and maintenance services. The first system was so successful that MadNat has supplied a further two. As Mike Lewis, managing director at

MadNat says *"The Smart-e equipment is ideal for this application as it gives us pretty much a one-stop capability ie. fantastic images and sound and a camera control operation too. It is resilient enough to withstand the rough conditions experienced at sea and is extremely reliable - both essential when the next visit to port could be several weeks.*

As a known and respected innovator of AV solutions and a particular specialist supplier of CAT 5 systems, MadNat was chosen for the project by Canyon Offshore who needed an AV system for their fleet of support vessels that inspect submerged gas pipes located across the world's oceans. Canyon Offshore provide off-

"Running cable on a ship can be tricky due to space restrictions. However, the Smart-e equipment uses just one cable to transmit and receive all signals, this is extremely advantageous both during installation and for saving space on board".



The Smart-e SNX-32x32 matrix was installed by the on-site Canyon Offshore engineers to distribute content filmed by the ROV which houses lights and CCTV cameras and is guided along gas and oil pipes on the ocean floor to check for any breaks or weak points. The live ROV images are transmitted to 18 screens located on the main ship. The live broadcast allows engineers to direct the ROV to focus in on any areas of concern and view up to 32 different camera images at any one time.

The Smart-e SNX-32x32 is housed in the ROV control room transmitting signals to the 18 screens located in various parts of the ship via CAT 5 cable. Smart-e suggested incorporating Pronto programmable touch-screen remote controls, to give the on-board engineers the opportunity to configure the system to cater for their own specific needs as they change.

As Mike Lewis added *"The reconfigure option has resulted in the Canyon Offshore engineers becoming big fans of the Smart-e system and they are keen to see the system used in future vessel refits"*.

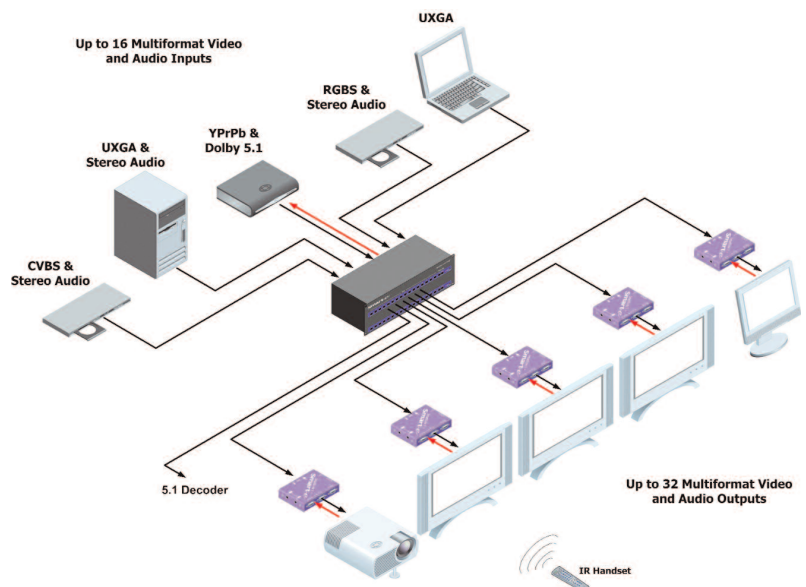


About MadNat

MadNat is an audio and visual CAT 5 specialist design and supply company, providing solutions that require innovative designs to meet unique requirements. With over six years experience of a diverse range of projects from the unique 'ROV/support vessel' solution designed and supplied for Canyon Offshore, to a system that monitors athletes' performance to help improve technique and sporting achievement, MadNat can design and supply the solution. For more information on MadNat visit www.madnat.com.



The Smart-e SNX-32x32 distribution matrix



* Smart-e equipment is suitable for use with CAT 5, 5e, 6, 7 and 8 structured cabling.