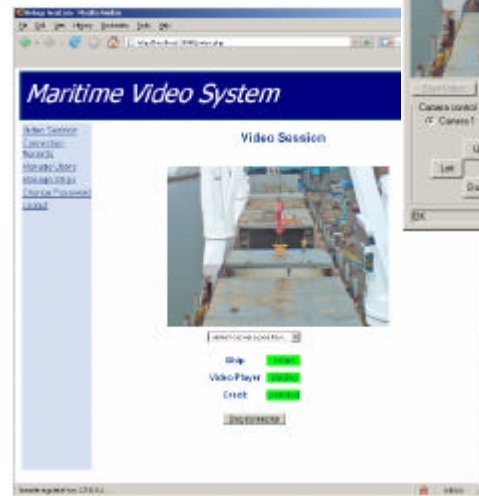
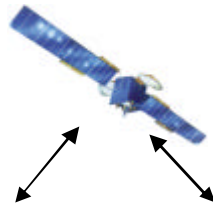




MarineCam

“One picture says more than a thousand words.”



Shipping companies can now visibly bring their fleet operations and services to a new level!

Anybody with an internet pc can now see live video feeds and still images directly from vessels at high sea using existing satellite equipment and the new MarineCam.

The unique M2sat MarineCam is a complete video solution providing shipping companies with a cost efficient and feature rich system to send live video streams and still pictures directly from their vessels to the internet.

Unique features M2sat MarineCam

- Live video feeds can be viewed from any PC connected to the Internet.
- Runs over any existing on-board satellite system (Inmarsat or VSAT)
- Still pictures from vessel can be automatically displayed on company web page.
- Remote controlled camera.
- All connections are secure. Shipping company has full control over who is viewing what.
- Cost savings by optimizing satellite connections and video encoding.

Key benefits for shipping companies

Commercial benefits:

- Provide superior service to customers by giving them a direct video connection to the vessel (e.g. for special transports)
- Use automatically updated still pictures from vessel for general marketing e.g. on company website.

Operational benefits:

- Increase visual awareness of fleet operations.
- Store pictures of operational events for later use (e.g. insurance proof with accidents)
- Monitor ship operations to maintain on board quality procedures

Security benefits:

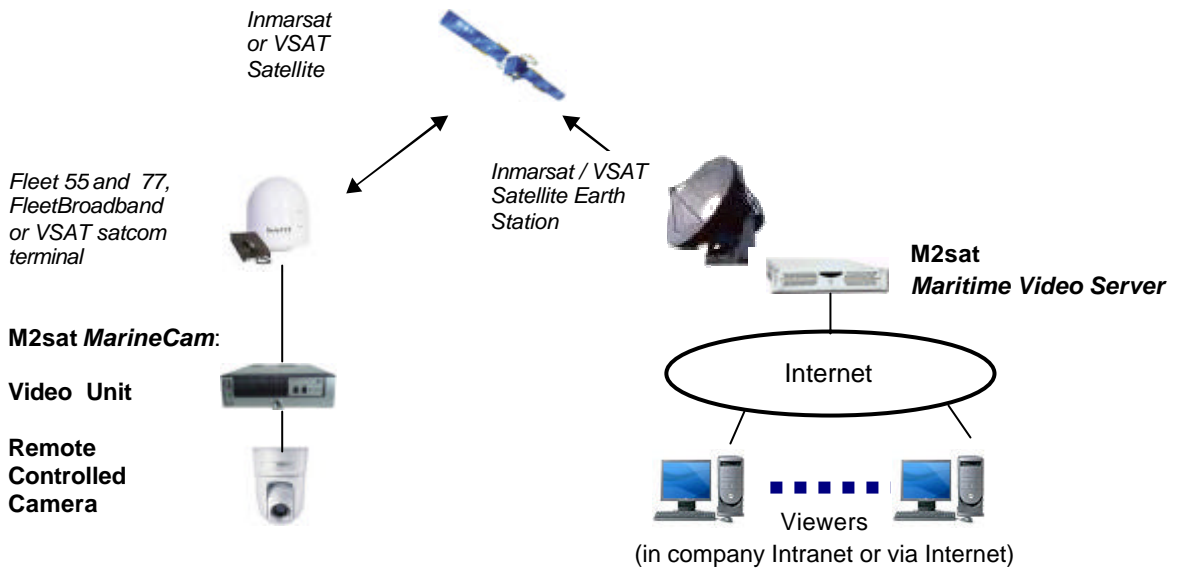
- Live monitoring of security threats and breaches.
- Provide tool to fight theft, crime and piracy.

Problem solving benefits:

- Provide visual input for remote experts handling on board problems.
- Use to help doctors dealing with staff health issues and in telemedicine applications.



MarineCam System Overview



MarineCam Components



On-board MarineCam Camera

The high quality on-board video camera with integrated pan/tilt head enables pointing to almost any direction and has a motor zoom lens which allows the identification of objects in distances up to 200 m. The camera is available for indoor and outdoor installation.



On-board MarineCam Video Interface Unit (VIU-256)

The VIU-256 takes care of the transmission of live video and still pictures via the onboard satcom terminal by optimising the video for 64, 128 and 256 kBit/s satellite connections. Still images are transferred via the MPDS or shared IP service. The image size and transfer period is configurable.

On shore Maritime Video Server

The on shore Maritime Video Server provides multiple simultaneous viewers access to the live video streams and still pictures. After log on, viewers can select a vessel from their fleet, activate live video transmission or browse still images and, when authorised, control the camera pan, tilt and zoom. The server supports connections via the Inmarsat Fleet, FleetBroadband services as well as VSAT services. The server includes the full user and vessel administration and makes a log file of all video connections, e.g. for accounting purposes.



Multi Media Satellite Systems BV (M2sa)t is an innovative player in the mobile satcom industry offering a portfolio of mobile, maritime and vehicle based satellite video systems. We design and build integrated systems for satellite newsgathering, satellite video surveillance and video conferencing that are cost efficient and easy to use. MultiMedia Satellite Services BV Amsterdam, The Netherlands tel. +31 20 4945097 www.m2sat.com

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