



The complete *manufacturer of*
Closed Circuit Television
for Marine and Oil & Gas applications





The HERNIS way

HERNIS Scan Systems is a world leader within high quality Closed Circuit Television Systems (CCTV) and Visual Integrated Systems (V.I.S), which is a visual concept based on integrating or being integrated into various onboard computer based systems. The systems are tailor-made for hazardous and corrosive environments as well as for the luxurious environments found onboard cruise ships.

The CCTV systems are self contained systems made to suit the needs for projects of all sizes. V.I.S is a virtually unlimited system, tailor made to fulfil special demands occurring in projects such as the highly demanding cruise market, and complex oil & gas projects. HERNIS can offer a comprehensive CCTV / V.I.S package, covering

assessment of the client's needs, initial design, engineering, manufacturing, installation, testing and supply of detailed documentation to customer specifications.

HERNIS' employees have extensive experience in project development. They are uniquely qualified to provide advice on CCTV / V.I.S systems to engineering companies and operators within the marine and oil & gas industry.

With more than 40 business partners and service stations worldwide, as well as a 24 hours service telephone, the customer can always count on someone being there for them.

CCTV Technology

The use of CCTV allows for centralised monitoring from one control station, providing complete oversight of all areas and processes on ships, oilrigs, production plants and refineries.

A person monitoring all critical areas from a central control point can respond to a series of simultaneous events more efficiently than a number of individuals located in the field, improving safety and ensuring increased productivity.

To withstand harsh environments, from the heat and humidity of the Middle East to the arctic frost of the North Sea, HERNIS has developed housings and enclosures made of maintenance free, electro-polished stainless steel. This material has been chosen to give maximum protection to the sensitive equipment within the unit.



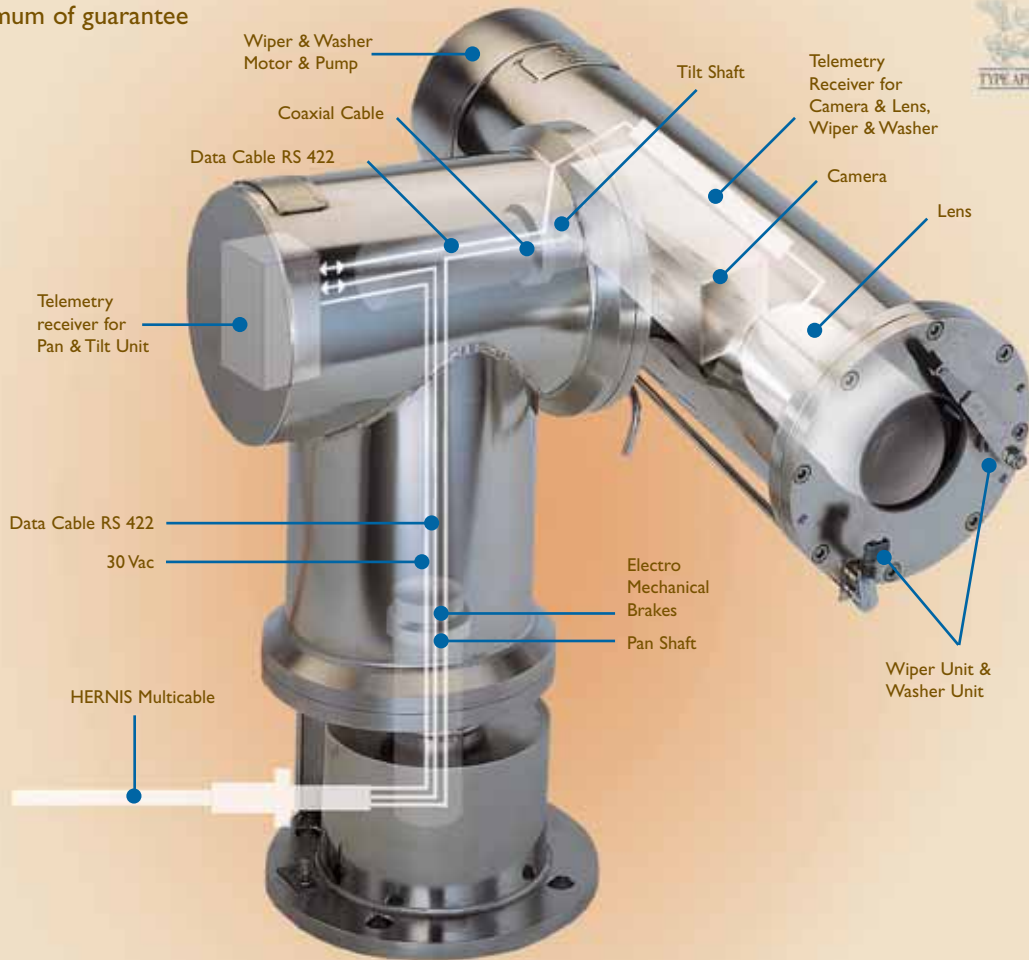
Quality

Our Commitment to Quality

HERNIS has a complete range of camera stations and monitors for hazardous areas, certified to both North American standards and to the European CENELEC standard. Having a active QA system fully implemented and certified to ISO 9001:2000 NO, ensures that our quality assurance system is an active tool in securing the highest quality for our customers and a minimum of guarantee claims for HERNIS.

Quality is an ongoing process that goes beyond ISO 9001. Our equipment is certified for use in potentially explosive atmospheres according to the ATEX directive 94/9/EC.

All certificates are included in equipment prices.



HERNIS Multicable

HERNIS Multicables have been constructed especially to survive a lifetime in harsh environments, and to make installation of HERNIS CCTV systems easy and cost efficient. One cable type is normally enough for the entire system, which reduces the cost of man-hours and material immensely. The cables meet the requirements for onshore-, marine- and offshore installations.

Business Segments



Plant, Refinery and Industry

HERNIS pioneered the integration of CCTV with other systems including process control, fire-, gas- and intruder alarms. HERNIS has successfully delivered integrated systems including remote monitoring and camera control utilising state-of-the-art transmission systems. Typical applications for the petroleum industry include offshore installations, refineries, tank farms, jetties, and terminals. Our systems can be tailored to every customer's need. All communication can be transmitted throughout the HERNIS CCTV systems by using coax cables, twisted pair cables, fibre optics, digital data lines, etc.



Offshore

HERNIS CCTV equipment was developed specifically for the offshore market. High technology equipment built to resist the most corrosive environment. Quick replacement of modules, coupled with excellent support and backup service makes HERNIS the single choice. HERNIS has experience ranging from arctic drilling rigs to tropical installations, with the supply ranging from basic CCTV systems to total responsibility for turnkey projects. HERNIS always selects the proper housings and ancillary equipment to meet the given environmental and operational conditions.



Cruise

With our special designs and versatile solutions, HERNIS continue to win prestigious cruise contracts around the world. The cruise market is in need of a system which suites the elegant surroundings onboard a cruise ship, and at the same time gives reliable and clear pictures with an exact timing of events. HERNIS have therefore developed a new selection of camera stations and domes specifically for the cruise environment. Along with the Visual Integrated System (V.I.S), the cruise design is complete. The V.I.S system has options where you may utilise a password-protected system limiting the access to the person rather than the actual control station.

Marine and Navy

Applications have been made for various tankers such as LNG/LPG, shuttle and crude oil tankers in addition to special purpose ships, such as seismic, cable layers, containers, ro-ro, and naval vessels. Surveillance areas include engine rooms, cargo handling & mooring, pump & compressor rooms, and underwater mating for shuttle tankers.



SeaTouch

SeaTouch is a windows based user interface specifically developed for ship security applications. The touch screen HMI enables the bridge watch to keep surveillance of all critical areas on board and activate immediate response in the event of a security breach. The map based camera selection and intrusion detector status indication facility enables the operator to immediately identify the location of a given security breach in addition to a visual verification of the cause.

The activation of a response to a security breach may range from the manual activation of an audible signal alarm, to an automatic activation of pre-recorded warning messages and hull perimeter lights. The system is modular in its design rendering it suitable for both simple, and more sophisticated security and safety applications.

C o n t r o l s y s t e m s

Available with Automatic Object Tracking System

CraneTV Systems

HERNIS have developed a new range of CraneTV systems to suit the need of Crane operators worldwide. With the new Automatic Object Tracking System installed, operation is made even easier. The zoom will automatically follow the cargo during crane operations; -the zoom will always follow a predefined object size, for example a 20' container will fill the screen, or any other size the operator may define. The interface unit uses an analogue feedback signal from the wire drum.

Another advantage is that the Joystick can be removed from the control box and installed into other panels if required. All camera functions such as Iris, zoom, focus and camera selections can be operated from the Joystick.

- The CT10Ex Basic System has one remote push button controlled camera input.
- The CT20Ex Advanced system has one remote controlled camera input.
- The CT30Ex Advanced system has two remote controlled camera input

All three have the Option for one Fixed Camera input or Picture in Picture Unit, and the advanced models can add Automatic Object Tracking system as an additional option.

- The camera stations consist of a stainless steel camera housing with oil damper. The oil damper keeps the camera in a stable vertical position.
- The camera housing is equipped with thermostatic heating element as a standard.
- The colour camera is equipped with a motorized lens, 18x optical Zoom and Auto Focus.



Weather Proof Camera Stations

During the past year we have renewed our product range, and added a wide selection of new products for all applications and requirements. The PT9 camera station, which is based on the well-proven PT30, includes a new selectable auto focus function not available on traditional camera and lens combinations. The CamCool II camera station with thermoelectric cooling element is ideal for use in areas with high ambient temperature. The cost efficient S7 camera station does the trick

when you need a fixed camera station. The PT9 and PT30 pan and tilt camera station with high IP rating is excellent for installations onboard offshore installations.

Weather Proof Camera Stations with high IP rating



S9



S7 mini



PT9



PT30



Cam Cool II



S6

C a m e r a s t a t i o n s

Control systems

HERNIS 250 system

The system is built as a complete central unit in a compact rack, which makes the installation fast and problem-free.

HERNIS 250 is a complete pre-wired system for 16 cameras, 8 monitors and 7 keyboards. Each monitor has an individual sequence and any camera and any pre-set position can be selected to the sequences. There are 10 pre-set positions per pan & tilt camera station, and the power supply to the cameras is centralised.

The HERNIS 250 system may easily be interfaced to other systems such as fire & gas alarm systems.



EX291 Camera Station

The EX291 fixed camera housing is intended for use in areas in which physical size is of the utmost importance. The camera housing is certified for zone I and 2, group IIC. It can be delivered with or without an integrated junction box.

Also available as HERNIS EX291 Subsea camera/light housing certified to IIC, T6/T4, IP68 according to EN 60529 with a pressure at 3 bar, especially developed for use on STL tankers.



EX291

Thermal Camera station for day and night vision and Oil spill detection



PT36W

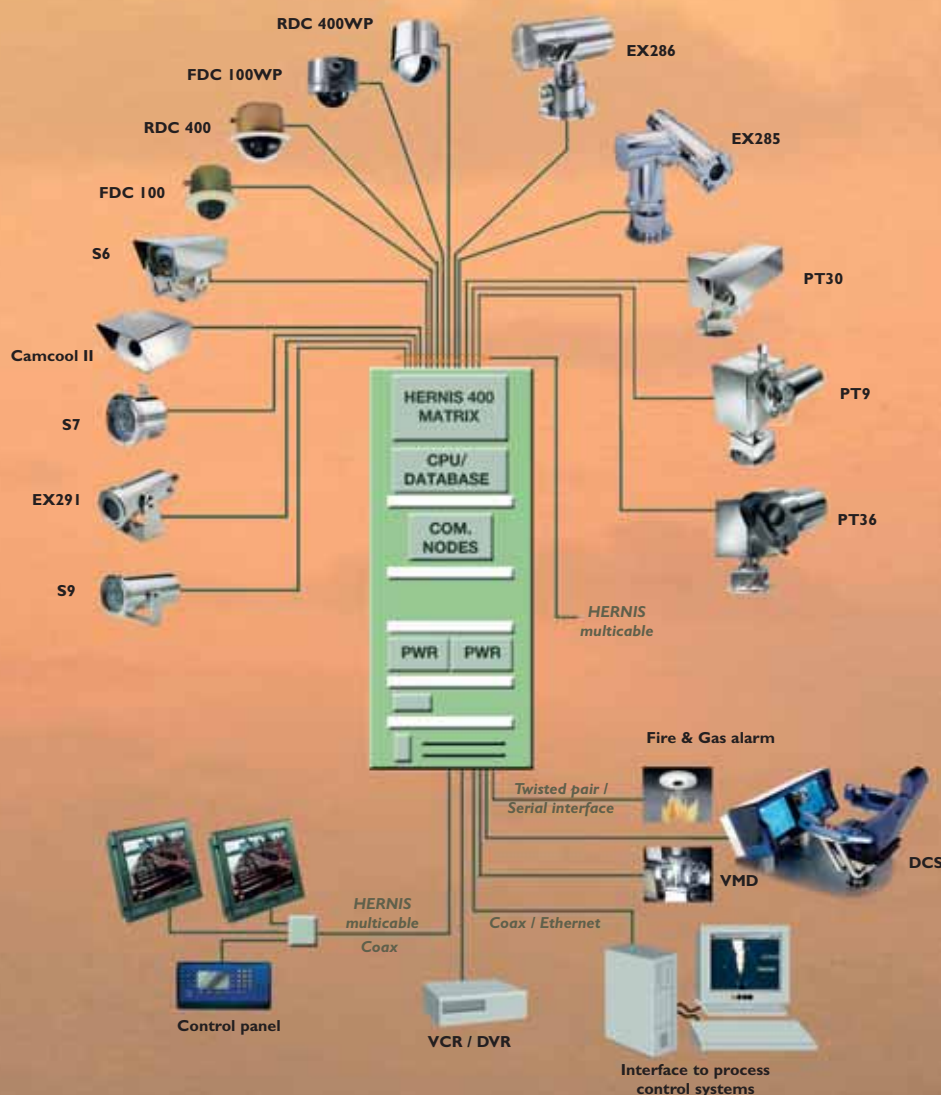
PT36W Camera Station

The PT36 W is a weatherproof camera station designed for nighttime surveillance in marine environment. The key purpose is to detect oil spills on water surface, as well as detecting personnel and vessels in total darkness. The camera station is delivered complete and fully tested with camera, lens and telemetry control for HERNIS 400 and HERNIS 250 control system.

Export restrictions may apply to this product, and we reserve the right to refuse any sales.

Camera stations

Control systems



HERNIS 400 System

HERNIS 400 CCTV system has a Windows NT/2000/XP based PC which controls a video matrix. The system is expandable in steps of 16, from 16 cameras and monitors up to 992 cameras, 256 monitors, and 256 keyboards in a single HERNIS 400 CPU system. Each of the 16 video outputs on each card has a programmable text generator which superimposes text onto the video image. The internal communication of the HERNIS 400 system operates on CAN (Controlled Area Network). The CAN configuration makes it easy to add new communication nodes for camera stations and keyboards.

Software

To accommodate special system requirements, we have developed several software packages to supplement the HERNIS 400 control system.

- HERNIS HWIN-400 Win.Contr System – Use a PC to view, and control the system.
- HERNIS Event Logg Program (HELP-400) – Keeps track of changes made in the system.
- HERNIS Admin./ID Software (HAS-400) – Allows a System Manager to configure the system.
- HERNIS Fault and Diagnostic (HFD-400) – Monitors the condition of the system.
- HERNIS HAKI Development Tool kit – Contains information needed to develop your own User Interface.
- HERNIS Haki-400 ActiveX keyb.Interface – Use a PC or DCS to view, and control the cameras in the system based on your own screen layout.

Explosion Proof Camera Stations

Our latest design in Camera Stations for hazardous areas is the EX286. The compact size of the EX286 is marginally larger than a traditional dome camera, without compromising the functional advantages of a traditional pan and tilt. Its small size and balanced design enables the EX286 to withstand high levels of shock and vibrations.

Our long-time bestseller – The EX285 camera station has a compact design and low weight making it very easy to install. The EX285 has a robust gearbox

including a spring loaded gear protection, and has electro-mechanical brakes on the shafts, which keeps a steady picture.

All camera stations are made in electro-polished stainless steel (316L). They all have internal cabling and telemetry receiver and are delivered with integrated Exe junction box. The camera stations can be mounted to floor, wall or ceiling. These benefits make the camera stations suitable for almost any area.



*Designed for
Zone 1 and 2,
certified for
Group IIC*

Camera stations

Special Systems



HERNIS Monitors

Industrial type LCD Monitor

A new industrialised LCD monitor has been developed by HERNIS. The monitor is available as 15"-17" and 19". The new monitor is delicate in appearance, easy to use and with excellent viewing conditions. The viewing angle is 170°, luminance of 250 cd/m², and 1084x1024 pixels.

Exp monitor

HERNIS have developed Exp enclosures in which 19" LCD screens are used. The display is the same as used in our industrial type LCD monitor. The screens can be supplied in PAL or NTSC formats, with Ex purge controller, and with or without our integrated keyboard.

Video Motion Detection

The system combines remote surveillance, video motion detection and digital storage in one system. The customer must set the area of interest, and set the perspective. This reduces unwanted alarms to a minimum. When the system determines that an "activity" is irregular, it immediately displays the video sequence triggering the alarm on the computer monitor and literally sounds an alarm notifying the person on duty. The alarm image includes the date and time the alarm was triggered, camera position and a short description of the situation. Since time is a critical factor, you can immediately examine the video image and take the appropriate action. Typical applications may be – Flare Monitoring, - Intrusion detection, – Smoke Detection, – Oil Leakage Detection.



Oil, Smoke and Steam Leak Detection System

HERNIS Dome Camera Stations

A new range of dome cameras, fixed or with pan&tilt and zoom functions, for indoor and outdoor installation has been developed by HERNIS.

During the development we emphasised that they had to be easy to install, manage harsh environment and at the same time have a delicate appearance.

The results are domes that can manage a lot of vibrations, making them suitable for the offshore and marine

environment. The outdoor model is to IP67 and made in our usual high quality 316L Stainless Steel. 100 preset positions are standard for both domes. The indoor ceiling mounted dome has a firepot integrated in the roof for added fire protection. The new domes will easily blend into any environment and can be controlled directly from all our control systems.



RDC 400



RDC 400WP



FDC 100



FDC 100WP

In- and Outdoor Dome Camera Stations – Fixed or with PTZ

Camera stations

History

HERNIS History

HERNIS was founded by three experienced offshore workers in 1982. The company had an intensive product development phase during the first years, and managed to develop products that have been recognised as high quality equipment within the CCTV technology. By manufacturing CCTV systems mainly for offshore and other petroleum-related installations the company is today recognised as one of the leading companies within their niche. As such, the company's prospects for the future are very good. The year 1990 was the big breakthrough in the export market for the company, with a significant growth in turnover and the number of employees. As well as training the employees to ensure a highly competent work force, HERNIS also arranges Agent Training Seminars each year to ensure that the appointed agents are up-to-date with the latest development and technology within the CCTV market. The financial strength is also the result of an aggressive marketing strategy assisted by the employment of a world wide network of agents covering HERNIS' export markets.

Research and development

HERNIS have had a very high activity level within the Research and Development department over the years. The result shows a selection of improved camera stations both with regards to size and functionality. A new software package, SeaTouch, has been launched and we have created our own range of LCD monitors. HERNIS is continuously working to improve the product range, and to focus on the customers need.

Service and support

Service and support has always been an essential part of any delivery. HERNIS' professional service staff provides regular advice and back up to customers and operators of the system. The 24-hour emergency telephone service is provided to ensure customer satisfaction.
+47 90 84 87 25.

*HERNIS
World Wide*





HERNIS is located in Arendal, Norway in a district well known for its shipping traditions, and the current manufacturing of electronics and high tech equipment.

*Miami, Florida
A fully operational service
office for the cruise market*



HERNIS Scan Systems AS is part of the Vislink plc Group. A UK listed company in the techMARK index. The Group is focused on the broadcast, government, military and security markets where there is increasing demand for satellite and microwave audio products, as well as specialised marine video applications. HERNIS is focused on the shipping and petroleum related industries.

*HERNIS Scan Systems –
Asia Pte Ltd
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Scan Systems AS. Caring for
proposals in Australasia,
customers' request and
service inquiries, including a
fully stocked spare parts
warehouse.*



Agent

