



DRILLEREYE



DRILLEREYE

Vision Solutions for Oil & Gas

WITH DRILLEREYE YOU FLY



WATCH VIDEO

<http://youtu.be/PVffya3fDiY>

WHAT WE DO

Drillereye designs, produces and installs video surveillance systems for land and off-shore RIGS. Our solutions guarantee operators easier, safer and faster management of their activities, thanks to constant monitoring of all areas of the drilling plant.

WHO WE ARE

Drillereye is the Oil & Gas division of EKOTEC Sistemi S.r.l, a leading company in industrial automation, security and safety as well as integrated control systems since 1980.

EKOTEC Sistemi is a system integrator and has always supplied customized and turnkey solutions, from design right up to the final system startup, in lots of industrial applications.

This consolidated experience has led to DRILLEREYE creation, the division which develops CCTV systems capable to operate in all kinds of environments and in all the conditions.

DRILLEREYE looks after systems design and production phases:

- » Feasibility studies
- » Design
- » Construction
- » Installation

DRILLEREYE IS A BRAND **EKOTEC**



Our solutions can be installed quickly either on newly-built RIGs or on existing ones, even during refurbishment.

We provide assistance and support 24/7.

We offer CCTV systems working STAND ALONE (ATEX cameras, control panel and monitor) or integrated into RIG control systems, to guarantee the safety, security and profitability of the drilling RIG everywhere and in all the conditions, even the worst ones.



KEYVALUES

Five reasons to choose DRILLEREYE

EXPERIENCE

Our solutions have been installed on land and off-shore RIGs. The experience gained in the field has enabled us to optimise our systems, to guarantee continuous operations in difficult environments and in critical conditions. Our systems are tested to withstand extreme temperatures and the harsh mechanical stresses typical of drilling.

We provide stand-alone and integrated systems which are also anti-explosive and anti-vibration. Thanks to our systems, we can monitor the core centres of the RIG and all the other workplaces on the same in which operator safety has precedence, like for example:

- » BOP area
- » Driller floor
- » Racking board
- » Shaker

QUICK INSTALLATION

We are fully aware that assembly and dismantling the Rig is a critical and non-productive operation, to be carried out rapidly. We deliver our systems ready for operation: just to position the devices, to insert the connection plugs and to power on the system. Our connection cables and electrical panels are plug-&-play, and our components allow for quick use by all operators. The software developed by Drillereye is extremely user-friendly, to reduce operator learning times as much as possible.

Our solutions are quickly applicable even to existing RIGs.

The systems can be controlled and set also through our tele-management service, active 24/7.

RELIABILITY

It is the basic requirement of each part of the drilling RIGs to avoid any downtime. Guided by this priority, our R&D team puts the reliability at the centre of the design process.

We select the best components on the market and we assemble them by our technicians support. Thanks to our know-how, we have developed original solutions to equip our cameras with effective anti-vibration systems. Each system is submitted to strict performance tests in laboratories before delivery, to guarantee reliability even in extreme conditions.

DELIVERY ON TIME

To be on time in terms of delivery time is an essential condition in a market in which the return on investment (ROI) is a mark of success. DRILLEREYE always works in compliance with the agreed schedules and the allocated budget. We deliver turnkey systems, ready to be used in the installation sites within the established time frame.

TAYLOR MADE

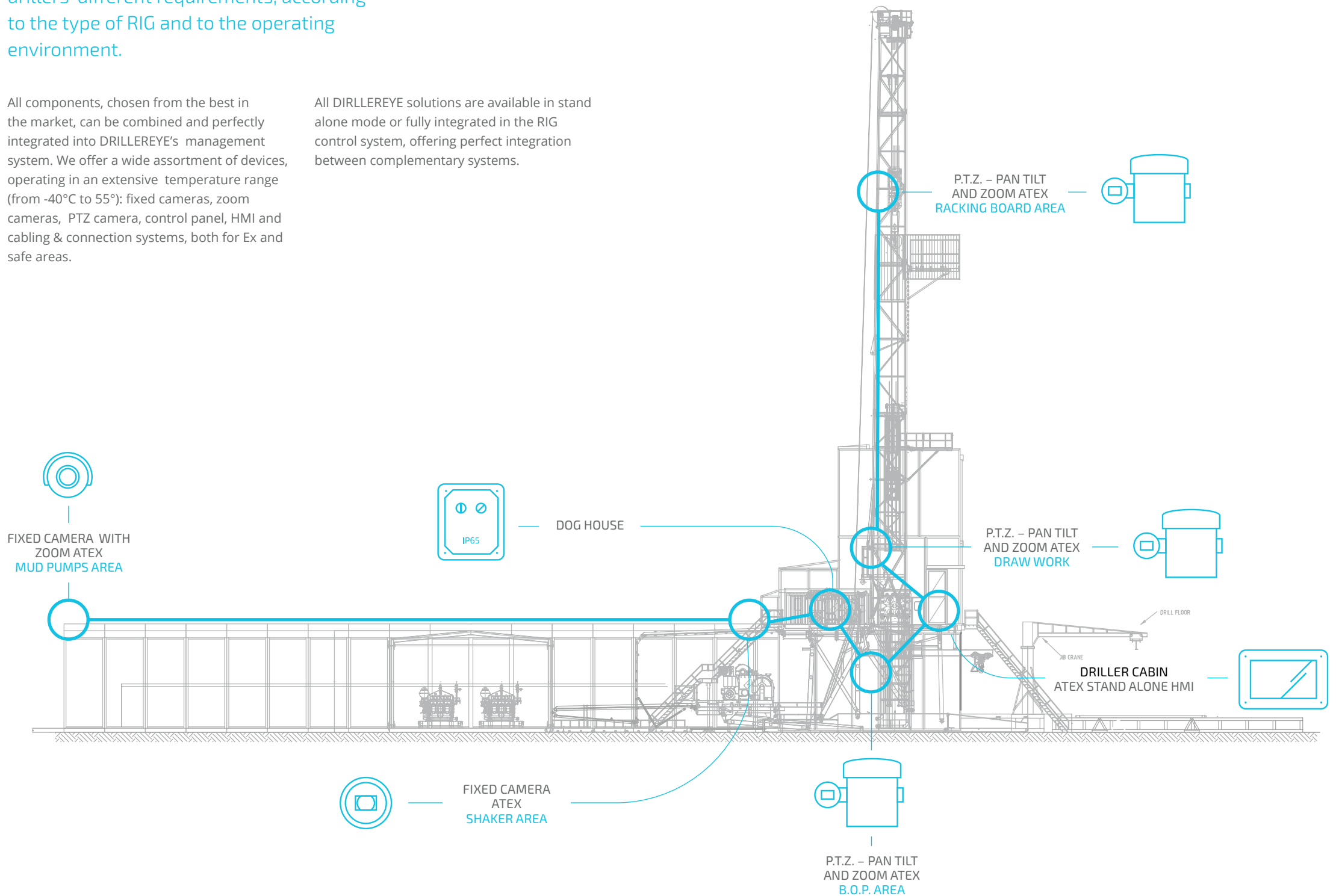
The integrated Drillereye control system is designed to be fit to our clients, to meet their specific surveillance needs. Our systems are compliant with the required legislative and technical standards. Thanks to the user-friendliness of our systems, one single operator in the cabin can view the function of the entire drilling plant and control the cameras through clear and immediate commands. Drillereye solutions guarantee excellent operating results and a remarkable increase in economic sustainability, for RIGs of different kinds and sizes.

SOLUTIONS

The modular solution DRILLEREYE meets drillers' different requirements, according to the type of RIG and to the operating environment.

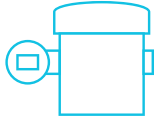
All components, chosen from the best in the market, can be combined and perfectly integrated into DRILLEREYE's management system. We offer a wide assortment of devices, operating in an extensive temperature range (from -40°C to 55°): fixed cameras, zoom cameras, PTZ camera, control panel, HMI and cabling & connection systems, both for Ex and safe areas.

All DRILLEREYE solutions are available in stand alone mode or fully integrated in the RIG control system, offering perfect integration between complementary systems.



SYSTEM EQUIPMENT

CCTV CAMERAS



P.T.Z. – PAN TILT AND ZOOM ATEX

Day/night PTZ camera contained in explosion-proof IP 65 housing (electro polished AISI 316L stainless steel) with 36X optical motorized zoom, autofocus and wiper. Assembled with mounting bracket, shock absorbers and J-Box for cable connections. ATEX certified for Zone 1 and 2. Optionally plugs for easier and faster electrical connections can be supplied.



FIXED CAMERA WITH ZOOM ATEX

Day/night fixed camera contained in explosion-proof IP66 housing (electro polished AISI 316L stainless steel) with optical motorized zoom, autofocus and wiper. Assembled with mounting bracket, 3mt of cable tail and J-Box for cable connections. ATEX certified for Zone 1 and 2. Optionally plugs for easier and faster electrical connections can be supplied.



FIXED CAMERA ATEX

Color fixed compact camera contained in explosion proof IP68 housing (electro polished AISI 316L stainless steel) with fixed optic, angle 81°. Assembled with mounting bracket and J-Box for cable connections. ATEX certified for Zone 1 and 2. Optionally whit plugs for easier and faster electrical connections can be supplied.



FIXED CAMERA WITH ZOOM HOT ENVIRONMENTS

Day/night fixed camera contained in IP66 cooled housing, with optical motorized zoom, autofocus. Assembled with mounting bracket. 3mt of cable tail and J-Box for cable connections. Only for safe areas. For outdoor temperatures between -40° to 158°F (-40°C to 70°C) Optionally plugs for easier and faster electrical connections can be supplied.

SYSTEM EQUIPMENT

CONNECTIONS



CABLES WITH ELECTRICAL TERMINAL BLOCK

Set of unarmored cables for field's camera connections. It includes cables for electrical feeding, video signal and RS485 bus connection (when required). All of these are oil resistant and flame retardant. Cables are suited to be linked directly at electrical terminal block. As option, cables can be supplied Armoured Type and/or MUD resistant Type.



CABLES WITH PLUGS

Set of unarmored cables for field's camera connections. It includes cables for electrical feeding, video signal and RS485 bus connection (when required). All of these are oil resistant and flame retardant. Cables are supplied with preinstalled Amphe-EX plugs for faster electrical connections. As option, cables can be supplied Armoured Type and/or MUD resistant Type.



WIRELESS SYSTEM FOR CAMERA CONNECTIONS

As alternative to cable' connections, a Wi-Fi communication system can be supplied. The wireless set includes the 802.11g Access Point (IP65), antennas and connections cables. In this case the camera's electrical feeding must be supplied on site, not from the main CCTV control cabinet. ATEX version and/or Amphe-EX electrical feeding as option.



OPTICAL CABLE

As alternative to video's cable connections an Optical fibers communication system can be supplied. The optical set includes armoured optical cables (oil resistant, flame resistant, NEK606 compliant), Amphe-EX connectors and optical devices. Camera's electrical feeding can be supplied on site or from the main CCTV control cabinet.

SYSTEM EQUIPMENT

CABINETS



STANDARD CABINET IP65

Control panel (IP65 – AISI304) for feeding and managing the CCTV system. The cabinet is equipped with general breaker, protection switches for devices, DC power supply, video encoders. Supplied with terminal block for all cables connections.

[OPTIONS]

Preinstalled Amphe-EX plugs
Video managing and recording system
Rig's SCADA system integration.

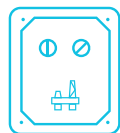


ATEX EX D CABINET

Control panel (EX d – Aluminium alloy) for feeding and managing the CCTV system. The cabinet is equipped with general breaker, protection switches for devices, DC power supply, video encoders. Supplied with terminal block for all cables connections.

[OPTIONS]

Preinstalled Amphe-EX plugs
Video managing and recording system
Rig's SCADA system integration.



OFF SHORE CABINET

Control panel (IP65 – AISI316 marine use) for feeding and managing the CCTV system. The cabinet is equipped with general breaker, protection switches for devices, DC power supply, video encoders. Supplied with terminal block for all cables connections. All components are suited for marine/off-shore use.

[OPTIONS]

Video managing and recording system
Rig's SCADA system integration.

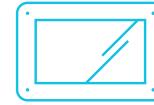


VIDEO MANAGING
AND RECORDING SYSTEM

To implement a fully video-recording functions', the main control panel can be supplied with an installed Industrial PC' (without monitor) and specific CCTV software', that performs the images recording' and permits remote access directly to the CCTV system, from outside, by web. Recommended for systems with more of 4 cameras, or with Rig's SCADA integration.

SYSTEM EQUIPMENT

VISUALISATION



ATEX STAND ALONE HMI

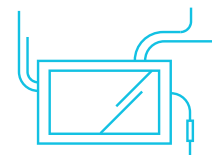
Our CCTV System provides the remote monitoring of the Rig's operation through a surveillance monitor (HMI) installed into driller cabin. Moreover, the driller could display images coming from cameras, control PTZ functions and, also, display the recorded images, stored on HMI, and navigate between them.

Suited for installations with a maximum of 4 cameras.



IP65 STAND ALONE HMI

For pressurized driller's cabin, we provide a remote HMI for monitoring the Rig's operation which works as a client of the video-recording server. Moreover, the driller could display images coming from cameras, control PTZ functions and, also, display the recorded images, stored on the server, and navigate between them.



RIG'S SCADA SYSTEM
INTEGRATION

To optimize RIG's operation we offer a solution for fully integration between CCTV System and RIG's SCADA System. It manages all PTZ trough a PLC which is linked, together with Video encoders, to Rig's SCADA system by LAN. Specific pages are setted on the SCADA, to display live images and moving PTZ. Recorded images can be displayed by browsing the video-recording client.



REMOTE WEB CLIENT

If the video managing and recording system is installed and linked to a network, or a router, the entire CCTV system can be monitored everywhere, easily, through a standard PC or by tablet. With the web client, remote offices can display images coming from cameras, can control PTZ functions and, also, display the recorded images and navigate between them.



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