



DTR65HR EX

Explosion Proof Colour TV Camera with Swivelling Head

Extremely Compact

Swivelling Head

Integral High Luminosity LEDs

Twin Laser Beams for DIMFIS Dimensioning

Provides Information on Viewing Head Rotation Angle

Ideal for Internal Inspection of Pipework

This colour TV camera, explosion proof certified under ATEX directive 94/9/EC, is the most compact of it's kind existing on the market, with an OD of only 74mm.

It incorporates internal lights mounted on the swivelling viewing head, as well as two laser beams which, with help of the DIMFIS software, permit the dimensioning of cracks or other flaws observed by the TV camera

It also features an integrated electronic device which provides information on the viewing head rotation angle, whatever the position of the camera inside the pipe.

Can be installed on an Ex (EEx d IIC T3) electronic tractor VSCE200 EX, equipped with Ex (EEx d IIC T3) external lights VSE45 EX (refer to GISYS EX data sheet).

It can also be mounted on a 150 metres motorised semi-rigid cable, for purpose of introduction and propulsion inside the pipe.

Aimed at the internal inspection of pipe within hazardous environments, this camera is used in the following applications:

- Transportation and distribution of gases or vapours
- Refineries and petrochemical plants
- Hydrocarbon storage areas
- Offshore oil platforms



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DTR65HR EX

ELECTRONIC

Image Sensor	1/3" CCD
Resolution	450 TV lines
Colour Standard	PAL – NTSC
S/N ratio	50 dB
Sensitivity	0.1 lux at F1.2
Electronic shutter	automatic

OPTICAL

Lens	3.8mm / F2.0
Angles of view	67° (Horizontal) / 53° (Vertical)
Focus	Remote control
Viewing Head Movements	Tilt:±110° (speed 10°/sec), rotation: 360° (speed 25°/sec)

ELECTRICAL



Camera:	
- Power Supply	16 to 17 Vdc
- Power Consumption	10 W
Integrated Light	18 high luminosity white LEDs (50 000 hours lifetime)

MECHANICAL

Dimensions	
Main housing OD	65mm
Head OD	74mm
Length	231mm (w/o stuffing gland)
Weight	2.3kg in air
Operating Temperature	See Chart
Cable Connection	Ex certified gland (IP6X) or Ex certified connector
Construction	Stainless steel housing Hemispherical Dome 953A Polycarbonate
Watertightness	IP68, immersion in 100 metres

EXPLOSION PROOF CERTIFICATION (see chart)

Camera with Explosion proof casing
Ex certified by INERIS according to Cenelec standard (ATEX 94/9/EC)

CABLE GLAND Version	GISMA CONNECTOR Version
DTR65HR EX INERIS 05 ATEX 0076X  II 2 GD EEx d IIC T5 IP6X T100°C T° range: -10°C / +50°C	DTR65HR EX INERIS 05 ATEX 0076X  II 2 G EEx d IIB T5 T° range: -10°C / +40°C



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