

DTR65HR-EX

Explosion Proof Colour TV Camera
with Swivelling Head



underwater **vision** specialists

Features

- Extremely Compact
- High Resolution 450 TVL
- Swivelling Head
- Integral High Luminosity LEDs
- Twin Laser Beams for DIMFIS Dimensioning
- Provides Info on Viewing Head Rotation Angle



Description

The DTR65HR-EX explosion proof, colour TV camera is certified under ATEX directive 94/9/EC and is the most compact of its kind, 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.

The camera 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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Specification – DTR65HR-EX

ELECTRONIC

Resolution:	450 TV Lines
Image Sensor:	1/3" CCD
Sensitivity:	0.1 Lux at f1.2
Colour Standard:	PAL – NTSC
Signal to Noise Ratio::	>50dB
Electronic shutter:	Automatic
Voltage	16 to 17Vdc
Power Consumption	10W
Integrated Light:	18 High Luminosity White LEDs (50,000 hrs lifetime)

OPTICAL



Lens:	3.8mm / f2.0
Angles of view:	67° (Horizontal) / 53° (Vertical)
Focus:	Remote Control
Viewing Head Movements:	Tilt:±110° (speed 10o/sec), Rotation: 360° (speed 25°/sec)

MECHANICAL

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
Water Tightness:	IP68, Immersion in 100m

EXPLOSION PROOF CERTIFICATION

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

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

