



## DTR 100Z ADF

Night and Day Explosion Proof Colour TV  
Camera with Zoom and Swivelling Head

Replaces Camera with Pan & Tilt  
Combination

Reduced weight and volume

Absence of any external movement

Excellent tolerance to harsh  
environment: chemicals, climate...

Waterproof IP68 – 5 bars

Night and day

Preset positions, Image rotation and  
overlay, protected IP access

Single umbilical cable link to  
controller

With a very compact volume (OD 120mm – L 265mm) this explosion proof TV camera (refer to certification chart on back page) offers a 10x optical zoom and tilt/rotate viewing head.

For applications of video surveillance in an explosive risk environment – petrochemical plants, gas storage and transportation, offshore platforms, drilling rigs or drillships.... The DTR 100Z ADF renders obsolete the traditional solution of an Ex camera mounted on an Ex pan/tilt unit; it indeed offers the following advantages:

- Weight and volume reduced by a factor of 10
- Elimination of the external cable linking the camera to the P/T unit
- Absence of any external movement
- Excellent tolerance to harsh environment: chemicals, climate...
- Waterproof IP68 – 5 bars
- Night and day
- Preset positions, Image rotation and overlay, protected IP access
- Link to the control unit by a single umbilical cable



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# DTR 100Z ADF

## ELECTRICAL

|                 |  |
|-----------------|--|
| Image Sensor    | 1/4" CCD HAD – 440000 pixels                                     |
| Resolution      | 460 TV lines   |
| Colour Standard | PAL – NTSC in option   |
| Scanning        | CCIR 625 lines, 50Hz   |
| Video Output    | 1Vpp – 75 ohms   |
| S/N ratio       | >50 dB   |
| Sensitivity     | 01.5 lux in standard mode (50 IRE), 0.1 lux in slow shutter mode |
| Power           | 7 W maximum  |

## OPTICAL

|               |  |
|---------------|--|
| Lens          | 10x optical zoom (focal lens 4.2 to 42mm)<br>4x digital zoom |
| Focus         | Automatic with remote control override                       |
| Lens Movement | Tilt: 0 to +90°, pan: 360° w/o stop                          |

## MECHANICAL

|                       |                                      |
|-----------------------|--------------------------------------|
| Dimensions            | L 265 mm (w/o connector) – OD 120 mm |
| Tightness             | IP 68 - immersion in 50 m            |
| Weight                | 4.8kg in air                         |
| Operating Temperature | See Chart                            |
| Connection            | Ex d IIC explosion proof certified   |
| Construction          | Stainless steel                      |

## EXPLOSION PROOF CERTIFICATION (see chart)

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

## OPTIONS

- Protective hood against mist, rain, solar exposure
- Mounting plate

| CABLE GLAND Version  |   | ROTA CONNECTOR Version  |
|--|---|---|
| DTR 100 Z ADF<br>INERIS 02 ATEX 0066 X<br>⊕ II 2 GD                      |   | DTR 100 Z ADF<br>INERIS 02 ATEX 0066 X<br>⊕ II 2 G<br>Ex d IIC T6 |
| Ex d IIC T6<br>Ex tD A21 IP68 T85°C<br>T° range: -20°C / +55°C<br>CE0081 | Ex d IIC T5<br>Ex tD A21 IP68 T100°C<br>T° range: -20°C / +60°C<br>CE0081 | T° range: -20°C / +55°C<br>CE0081                                 |



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