

DTR 65 HR

SWIVELLING HEAD COLOUR TV CAMERA



This swivelling head colour TV camera features a "Dome-Tilt-Rotate" process : 220° tilt and unlimited rotation under a transparent dome, with a cold light source mounted on the viewing head. This light, made of Ultra Brite LED's with 50 000 hours life time, combined with a high resolution and sensitivity electronic block, provides an incomparable chromatic fidelity and excellent quality images.

The Camera is used with the VSR 65 controller and it benefits of the digital control technology which permits:

- to keep the high resolution of the video signals
- to secure high control precision
- to secure the resolution of the embedded sensors

Main applications of the DTR 65 HRC camera are

- survey of process
- through-wall inspection

Its compactness (65mm OD, 173mm L) permits its integration onto special tools or on motorized tractors of the Pipe Cruiser range, for inspection of pipes with ID 100 to 1200mm

DTR 65 HR

SWIVELLING HEAD COLOUR TV CAMERA

TECHNICAL SPECIFICATIONS

ELECTRONICS

Image sensor : 1/3", 438 000 pixels
Resolution : > 450 TV lines
Colour standard : PAL (NTSC optional)
Automatic shutter : 1/50 to 1/100 000 sec.
Internal synchronisation
Video output : 1 Vcc, 50 ohms
S/N ratio : 50 dB
Sensitivity : 0.1 lux at F/1.2
Power requirements : 20 to 50 Vdc
Power consumption : 8 W
Rotation angle feedback : optical encoder (+/- 1°)

OPTICAL

Lens : 3.8 mm
Angle of view (diagonal) :
: 85° (air)
: 61° (water)
Iris : fixed F/2.0
Focus : remote control
White balance : remote control

INTERNAL LIGHTING

18 Ultra Bright white LED's (50 000 hours lifetime)

MECHANICAL

Dimensions : L 173 mm (with connector)
: Ø 65 mm
Operating depth : 300 meters
Weight : 1.2 kg (air)
: 0.74 kg (water)
Operating temperature : -10°C to + 60°C (in water)
Connector : Jupiter
Material : stainless steel housing 316 L
: PMMA acrylic dome
Internal movements :
- tilt : +/- 110° variable speed 0 to 55°/sec
- rotation : infinite in both directions
: variable speed: 0 to 100°/sec

OPTIONS (integrated in the camera) :

LA-2 : two laser diodes (operate with the HR 440 digitizing board and the Dimfis software)

Design and specifications
subject to change without notice



Bowtech Products Ltd
Howe Moss Crescent, Dyce, Aberdeen,
AB21 0GN. United Kingdom
Tel: +44 (0)1224 772345 Fax: +44 (0)1224 772900
Mobile: 07974 730703
Email: bowtech@bowtech.co.uk
Web: www.bowtech.co.uk