



## IBAK ORPHEUS®

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### **Pan and rotate camera**

For 150 mm (6 in.) pipes upwards

Camera tractor operation

Right side up picture

Zoom lens with one-push autofocus

Integrated lasers for measuring functions

Optionally with Ex approval 

# IBAK ORPHEUS®



The **IBAK ORPHEUS** is a pan and rotate camera for 150 mm (6 in.) pipes upwards. It combines the proven functionalities of the IBAK ORION such as full rotatability of the camera head, an always right-side up picture in axial view (UPC = upright picture control) and automatic joint inspection with a zoom lens and laser reference measurements. Two integrated lasers enable defect measurements to be performed easily in combination with the IBAK software IKAS 32. The 10x optical zoom and the automatic return to zero function round off the camera.

The integrated light-emitting diodes, which are protected by high impact-resistant, transparent caps, ensure excellent illumination in all environments. Thus, the medium pipe diameter inspection range can be covered by a single camera – the ORPHEUS.

Integrated sensors for pressure monitoring and optional explosion protection reliably assure the safety of the equipment and the site of operation.

The IBAK ORPHEUS is a modular unit and can be mounted on the IBAK camera tractors KRA 65, KRA 75, KRA 85 and on a manhole adapter.

## System Technical Data:

- For 150 mm (6 in.) pipes upwards
- Pan and rotate camera with right side up picture
- Diameter/length: 96/160 mm (3.8/6.3 in.)
- Protection class: IP 68
- Interior pressure monitoring with LCD indicator and acoustic alarm in the control unit
- Imager: 1/4" colour CCD Sensor
- TV standard: PAL or NTSC
- Lighting: 88 white LEDs, adjustable
- 10x optical zoom (optionally 4x digital)
- One-push autofocus
- Remote-controlled focus and iris
- Pan range: +/- 120°
- Field of view: +/- 150°
- Angle of rotation: continuous
- Reference measurement with 2 laser diodes
- Optionally with Ex approval

## Accessories:

- Ancillary light ZSW 75 with 252 LEDs
- Manhole adapter



▲ ORPHEUS and manhole adapter



▲ ORPHEUS on KRA 75 with granulated wheels



▲ ORPHEUS on KRA 75 with ZSW and tractor tyres



▲ ORPHEUS on KRA 75



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