



IBAK HYDRUS



Axial Camera

For 50 mm (2 in.) pipes upwards
Pluggable pushrod camera
MODULAR I compatible

IBAK HYDRUS



IBAK HYDRUS is a spherical pushrod camera with a diameter of 41 mm / 1.62 in. and is the smallest camera of the IBAK MODULAR I series. The result of extensive and detailed development are the tiny dimensions which permit the inspection of even very small pipes from 50 mm / 2 in. diameter upwards with several right-angle bends. The integrated annular LED lighthouse is protected by a transparent screw-on cap.



IBAK HYDRUS camera with LED lighthouse and screw-on protection cap

System Technical Data

- For 50 mm (2 in.) pipes upwards
- Axial viewing pushrod camera
- Diameter / length: 41/50 mm (1.62/2 in.)
- Weight: 100g
- Protection class / test pressure: IP 68/0 bar
- TV standard: NTSC / PAL
- Lighting: 36 white LED's, adjustable
- Iris: automatic electronic shutter



IBAK HYDRUS on "Magic Push Rod"

Accessories

- Pipe skid device



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IBAK JUNO



Axial Camera

For 100 mm (4 in.) pipes upwards
Pushrod or tractor operation
Right side up picture (UPC)
Integrated detector transmitter
with remote switch-off
Pressure-monitored
MODULAR I compatible

IBAK JUNO



The **IBAK JUNO** Axial Viewing Camera with always right side up picture (upright picture control) and a housing diameter of 60 mm / 2.36 in. can be operated with pushrods in pipes from as small as 100 mm / 4 in. diameter, has extreme bend-negotiating capability and can be tractor-operated. To assure permanently good quality lighting, it is equipped with white LED's which are arranged in the form of a circle and protected by impact-proof sections of casing. The internal pressure-monitoring system serves to ensure reliable operation of the camera system. A transmitter, which can be switched on as required, is integrated in the camera for position-finding purposes.

System Technical Data

- For 100 mm (4 in.) pipes upwards
- Axial viewing camera with right side up picture
- Diameter / length: 60/100 mm (2.36/4 in.)
- Weight: approx. 500 g
- Protection class / test pressure: IP 68/10 bar
- Pressure-monitoring with LCD indicator and acoustic alarm
- TV standard: NTSC / PAL
- Lighting: 56 white LED's, adjustable
- Remote focus adjustment, continuous operation
- Iris: automatic electronic shutter
- Integrated detector transmitter (32.768 kHz)

Accessories

- Pipe skid device



IBAK JUNO axial camera with adjustable focus, LEDs and protective cover



IBAK JUNO camera with integrated transmitter and connector



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IBAK ORION



Pan and Rotate Camera

For 100 mm (4 in.) pipes upwards
Pushrod or tractor operation
Right side up picture (UPC)
Integrated detector transmitter
with remote switch-off
Pressure-monitored
MODULAR I compatible

IBAK ORION



IBAK ORION is a pan and rotate camera which turns continuously around its own axis and, independently of rotation, also permits simultaneous adjustment of the LISY viewing direction, and provides a picture which is always right side up (UPC= upright picture control). Thus, the camera can look in all directions and automatically rotate to inspect joints. With a diameter of 60 mm / 2.36 in., the pan and rotate camera can be operated on all camera tractors of the MODULAR I series and has full bend-negotiating capability when deployed with a pushrod. The LED's installed under the impact-resistant casing covers, an integrated detector transmitter and internal pressure-monitoring are additional product features.

System Technical Data

- For 100 mm (4 in.) pipes upwards
- Optionally with EEx approval
- Pan and rotate camera with right side up picture (UPC= upright picture control)
- Diameter/length: 60/100 mm (2.36/ 4 in.)
- Weight: approx. 500 g
- Protection class/ test pressure: IP 68/10 bar
- Pressure-monitoring with LCD indicator and acoustic alarm
- TV standard: NTSC / PAL
- Lighting: 40 white LED's, adjustable
- Remote focus adjustment, continuous operation
- Iris: automatic electronic shutter
- Pan range: +/- 120°
- Angle of view: +/- 150 ° (300°)
- Angle of rotation: continuous
- Integrated detector transmitter (32.768 kHz)

Accessories

- Pipe skid device
- Ancillary light ZSW 65 with 180 LED's



IBAK ORION pan and rotate camera with focus and LED's



IBAK ORION on "Magic Push Rod"



IBAK ORION with transmitter on KRA 65 and ancillary light ZSW 65



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IBAK ORION L



Pan And Rotate Camera

For 100 mm (4 in.) pipes upwards
Pushrod operation with steering function
Right side up picture (UPC)
Integrated detector transmitter with
remote switch-off
Pressure-monitored
MODULAR I, HSP and LISY-compatible

IBAK ORION L



IBAK ORION L is specially designed for operation in branch pipes. The full rotational capability of the camera head and the possibility of adjusting the viewing angle at any time, providing a picture which is always right side up (UPC=upright picture control) are only some of its outstanding features. The guide rod which can be panned and rotated in all directions is extremely heavy-duty in mechanical terms due to its special construction. Good illumination is provided at all times by the integrated LED's. The camera with its housing diameter of 60 mm / 2.36 in. has excellent bend-negotiating capability when mounted on all pushrods and can also be operated with the MODULAR I camera tractors, in particular with LISY. Furthermore, the casing covers are impact-resistant, a detector transmitter is integrated and the camera is internal pressure-monitored.

System Technical Data

- For 100 mm (4 in.) pipes upwards
- Optionally with EEx approval
- Pan and rotate camera with right side up picture (UPC= upright picture control)
- Diameter / length: 60/100 mm (2.36/4 in.)
- Weight: approx. 500 g
- Protection class / test pressure: IP 68/10 bar
- Pressure-monitoring with LCD indicator and acoustic alarm
- TV standard: NTSC / PAL
- Lighting: 40 white LED's, adjustable
- Remote focus adjustment, continuous operation
- Iris: automatic electronic shutter
- Angle of view: +/- 150 ° (300°)
- Angle of rotation: continuous
- Integrated detector transmitter (32.768 kHz)
- Compatible with Modular I System, HSP and LISY



IBAK ORION L on "Magic Push Rod" for lateral inspection in 100 mm (4in.) pipes upwards



IBAK ORION L guide rod joint

Accessories

- Pipe skid device



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IBAK ORPHEUS

Pan And Rotate Camera

For 150 mm (6 in.) pipes upwards

Tractor operation

Right side up picture

Integrated detector transmitter
with remote switch-off

Integrated defects measurement
with laser

MODULAR I compatible

IBAK ORPHEUS



IBAK ORPHEUS is a pan and rotate camera with 40x-zoom, an integrated laser for reference measurements and a picture that is always right side up (UPC= upright picture control) and is at present the biggest camera of the MODULAR I series. Continuous rotation capability, in addition with simultaneous adjustment of the viewing angle permits the camera, among other things, to rotate automatically to inspect joints. With a housing diameter of 96 mm / 3.78 in., the camera can be operated directly with the camera cable and also on camera tractors. The integrated LED's are protected by impact-resistant sections of casing. A detector transmitter, which can be switched on as required, and internal pressure-monitoring assure reliable operation.

System Technical Data

- For 150 mm (6 in.) pipes upwards
- Pan and rotate camera with right side up picture (UPC= upright picture control)
- Diameter / length: 96/160 mm (3.78/6.4 in.)
- Weight: approx. 1.6 kg
- Protection class/ test pressure: IP 68/10 bar
- Pressure-monitoring with LCD indicator and acoustic alarm
- TV standard: NTSC / PAL
- Lighting: 88 white LED's, adjustable
- Focus automatic and remote-controlled
- Iris: remote-controlled F1.8 - 28
- Zoom: 10x optical, 4x digital
- Pan range: +/- 120°
- Angle of view: +/- 150 °
- Angle of rotation: continuous
- Integrated detector transmitter (32.768 kHz)
- Reference measurement with 2 laser diodes

Accessories

- Ancillary light ZSW 75 with 252 LED's



IBAK ORPHEUS camera with integrated transmitter and IBAK MODULAR I connector



IBAK ORPHEUS pan and rotate camera with 40x zoom, autofocus and integrated laser



IBAK ORPHEUS on KRA 75 with ZSW 75



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