



IBAK
Well and
Borehole
TV Systems



IBAK Well and Borehole TV Systems

Innovative products from the North of Germany for the world. Our maritime location determines our values: clear vision, stability, continuity. We have set a clear course to reach our objectives.

The high quality standards we require from ourselves, the independently

certified quality standard (ATEX), guaranteed 10 years availability of spare parts and last but not least the sound foundation of the entire company form a firm basis for strong innovative force and for long-term partnerships in international business. In addition to these values to which our staff are committed, fairness and reliability are also prerequisite for the strong motivation of all concerned.

We look forward to you as our partners.



IBAK well and borehole TV cameras are pressure-watertight axial or pan and rotate cameras. Various cable winches for cable lengths of up to 1000 m are available for different inspection depths. If longer cables are required, special solutions can be implemented with special winch models. With the larger cable winches such as KW 500 and KW 1000, the camera is positioned in the well by means of a 4-quadrant control system. To assure optimum picture quality, equalising amplifiers are used to process the video signal.

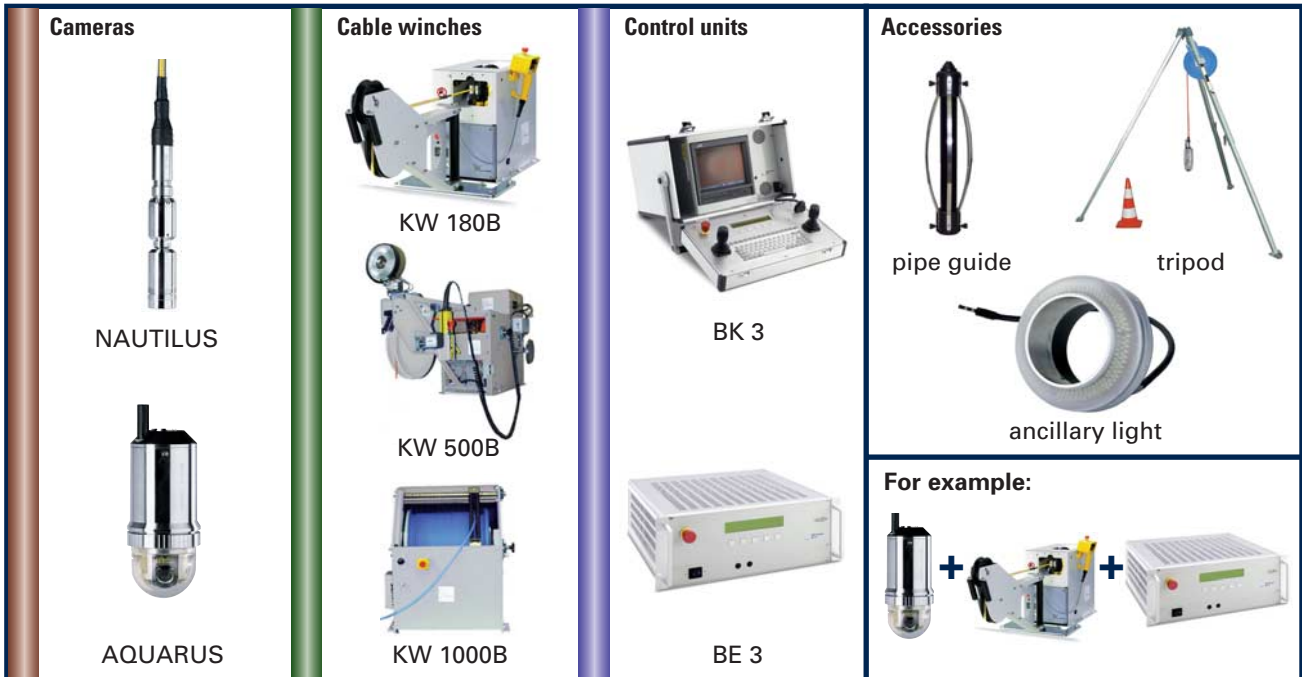
IBAK Well and Borehole TV Systems

Compact – powerful – economical
Modular construction
For diameters of 50 mm (2 in.) upwards
For depths up to 1000 m (3000 ft.)

It's your choice!



Horizontal wells can also be inspected with IBAK Well TV Systems and special 4-wheel-drive camera tractors. The IBAK analysis software and an extensive range of accessories complete this product line. The systems are semi-transportable or can be permanently installed in a vehicle.



NAUTILUS colour camera for wells

- Axial view camera
- Operating range: 50 mm (2 in.) upwards
- Lighting: integrated high-power LED's
- Pressure range: up to 50 bar
- Diameter / length: 43/102 mm (1.7/4 in.)

AQUARUS colour camera for wells

- Pan and tilt camera
- Operating range: 100 mm (4 in.) upwards
- Lighting: integrated high-power LED's
- Pressure range: up to 100 bar
- Angle of rotation / tilt range: continuous / $\pm 90^\circ$
- Diameter / length / weight: 95/250 mm (3.7/9.9 in.) / 3.4 kg
- Plug-in connector: optional KKD12B (12 pin) or KKD19-40 (19 pin)

KW180B cable winch

- Cable length max. 200 m (660 ft.)
- Winding speed max. 27 m/min.
- Dimensions w / h / d 450/580/750 mm (17.7/22.9/30 in.)
- Outrigger with deflection sheave and length measuring device
- Weight with camera cable approx. 60 kg

KW500B cable winch

- Cable length max. 500 m (1650 ft.)
- Winding speed max. 35 m/min.
- Dimensions w / h / d 620/790/750 mm (24.4/31.1/29.6 in.)
- Optional outrigger with deflection sheave and length measuring device
- Weight with camera cable approx. 210 kg

KW1000B cable winch

- Cable length max. 1000 m (3300 ft.)
- Winding speed max. 39 m/min.
- Dimensions w / h / d 787/928/970 mm (31/36.6/38.2 in.)
- Weight with camera cable approx. 350 kg

BK3 control box

- Integr. 10" colour monitor
- Display generator, RS 232 port, emergency stop
- Power requirement 110/120/230 VAC/640 W

BE3 control panel

- 19" technology for vehicle installation
- External keyboard and joystick
- Display generator, RS 232 port, emergency stop
- Power requirement 110/120/230 VAC/640 W

IBAS32 well analysis software

- Well survey reports, well graphics and pictorial reports
- Real-time graphics, video recorder control system, image digitisation
- MPEG 4/2/1 digitisation, freely definable screen forms
- ASCII data backup

Accessories

- Pipe guides
- Ancillary searchlights
- Cable deflection units
- Tripod frames

IBAK

founded as "Ingenieurbüro Atlas Kiel" by engineer Helmut Hunger, is today Europe's biggest manufacturer of CCTV systems for the inspection of non-man-size pipelines and wells. For more than 60 years, customers all over the world have benefited from the great experience of this company with tradition.

IBAK designs and manufactures modular TV inspection systems with features which are unique in terms of function and technology. The great variety of products ranges from miniature electronic circuit boards, housings machined from solid materials for camera systems, equipment for pipe cleaning and leak testing, special lens systems of our own design through to complex software for data analysis and documentation. With the possible installation of the equipment in inspection vehicles of all kinds and with our after-sales service, we can offer you all services from a single company.

From IBAK



IBAK Helmut Hunger
GmbH & Co. KG
Wehdenweg 122
24148 Kiel
Germany
Tel. +49 (0) 431 7270-0
Fax +49 (0) 431 7270-207
info@ibak.de
www.ibak.de

IBAK ZWEIGSTELLE SÜD
Im Tal 9
89186 Illerrieden
Tel. +49 (0) 7306 9270-0
Fax +49 (0) 7306 9270-20