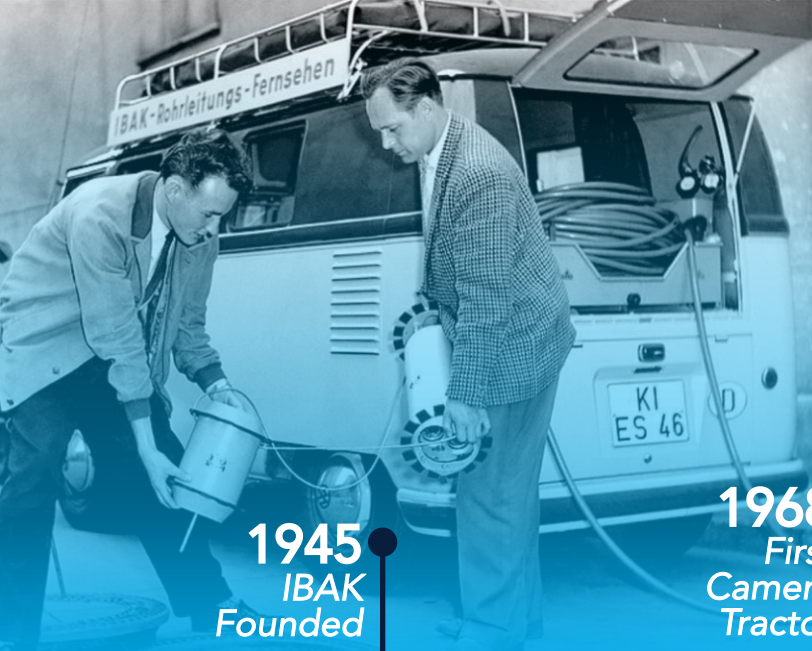




RapidView[®]
IBAK North America



1945
IBAK
Founded

1968
First
Camera
Tractor



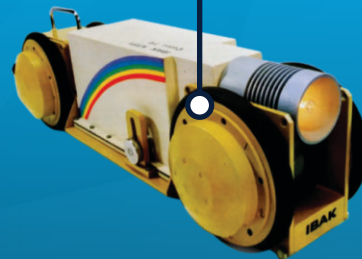
1989
First
Reporting
Software



1993
First
Lateral
Launch
Robot

First
Sewer
Camera
1957

First
Pan & Tilt
Camera
1980

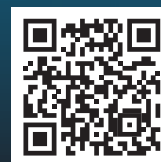


First
Always
Upright
Pan & Tilt
1993

First
Pan & Tilt
for 4"
(100mm)
1996

YOU CAN TRUST THE COMPANY
THAT **INVENTED** THE INDUSTRY.

RapidView
IBAK North America





2000
First
Pan & Tilt
Push
Camera

2006
First
Manhole
Scanner

2013
First
Integrated
HD
Cameras

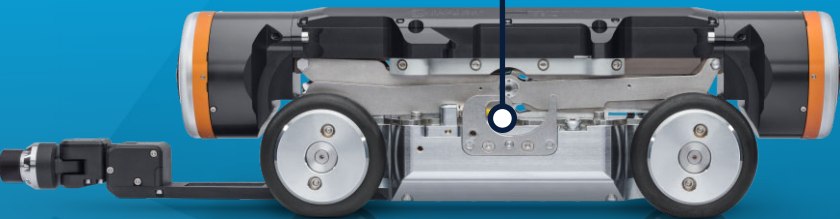
2018
First
4K Hi-Res
3D
Scanner

First
3D Optical
Scanner
2002

First
Integrated
Rehab
Robots
2013

First
Built-In
3D Sensor
2016

First
HD/SD
Adaptive
Camera
2019



“We are what we repeatedly do. Excellence then, is not an act, but a habit.” -Aristotle

We understand that our customers have many choices when it comes to pipeline inspection and rehabilitation equipment. We work hard to ensure that the equipment we provide is designed to do the job it was intended for and that it was manufactured to the highest quality standards.

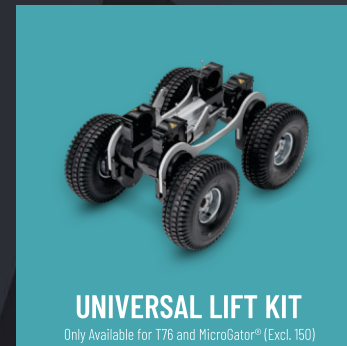
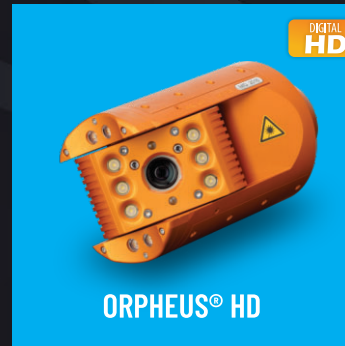
Providing the best equipment is the first step in making sure our customers are successful. Providing best in class after-sales support, and our commitment to continue that support for years to come, is what truly sets us apart from the competition.

We come from a contracting background. Pumping septic tanks, installing pipe, inspecting pipe.... the company was founded by people who got their hands dirty. Our founders realized that there wasn't a good source for pipeline inspection equipment, or a company living up to the minimum standards of service after the sale. That's why we started RapidView IBAK North America, and it is why we work hard every day to make sure that our customers have what they need to be successful.

RapidView®

IBAK North America

IBAK Inspection Equipment Manufacturing is Certified
ISO 9001:2015 and ISO 14001:2015





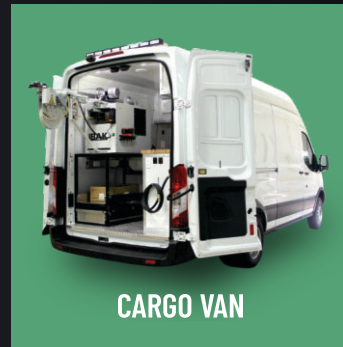
MAINLITE BOX



UTV / ATV



TRAILER



CARGO VAN



BOX TRUCK



KW 207®
SD / HD / 4K Compatible



KW 307®
SD / HD / 4K Compatible



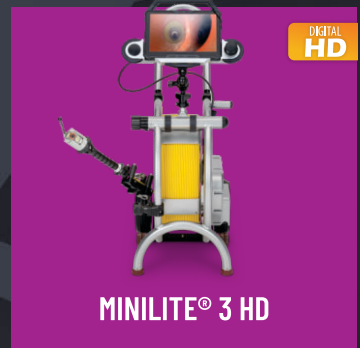
KW 305®
Standard Definition



KW 317®
SD / HD / 4K Compatible



KW 507®
SD / HD / 4K Compatible



MINILITE® 3 HD



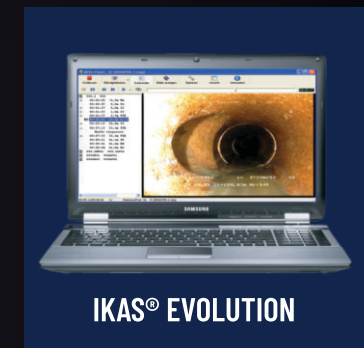
BS 3.5 - 10 X



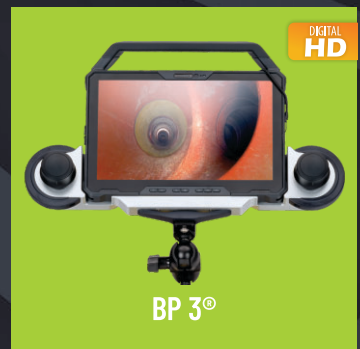
MICROGATOR® 2.0



MICROGATOR® 150



IKAS® EVOLUTION



BP 3®



BS X PRO



MICROGATOR® AIR



MICROGATOR® GT



IKAS® EVOLUTION MODULES
3D GeoSense®, LaserScan®, PANORAMO® Analysis, etc.

COMPACT & PORTABLE

The MainLite® HD is based around two very compact cable drums (KW 207/KW 307) and the BP 3 multi-function computer controller. The entire unit can be mounted in a truck, trailer, or UTV, or used in portable applications with the portable cart. Whether you are a small town, large municipality, or contractor, the MainLite® HD System is adaptable, capable, and ready to go at the push of a button.

Perfect for portable applications, the **MainLite® Portable Cart** provides a cushioned seat and ergonomic mount for the BP controller.

Ask about our **vehicle mounted** options!

Highlighted Features

BP 3 Controller	Touch screen, built-in Windows 10
Recording	Built-in capture card + software
Portability	Cart with large wheels
Tractors	Compatible with T66 HD & T76 HD
KW 207	656' (200m), power rewind, level wind
KW 307	1000' (300m), power rewind, level wind
Compatible with MicroGator® AIR (pictured below)	



ORION® 3 HD
with T76 Camera Tractor



You can turn your MainLite® System into a complete **cutting system** by simply adding an air compressor, hose, and the MicroGator® Air!

**BUILT-IN
WINDOWS PC**

**12" HIGH-DEF
TOUCH SCREEN**

**RECHARGEABLE
BATTERIES**

MINILITE® 3.0 HD PUSH SYSTEM

The MiniLite 3.0 Push System is a compact and versatile platform for inspection of small diameter sewer lines. With a bright 12" touch screen (BP 3 Controller) and a built in Windows PC, this controller is ready right out of the box. The multi-function joystick allows precise control of pan & tilt cameras, and with continuous rotation built-in, you won't have to worry about over-rotating your camera.

COMPATIBLE CAMERAS

- ORION® 3 / ORION-L® 3 (16x Digital Zoom)
- NANO® HD / NANO-L® HD



ORION-L® 3 HD/SD



NANO-L® HD

AXIALCAM® 2.0

The AxialCam® 2.0 is designed specifically for our pushrod systems. Squeeze in and around small pipes with this pushrod camera's size and flexibility.

NANO-L®

The NANO-L works great in small diameter lateral launch scenarios and can also be utilized as a pushrod camera with the flexibility of the "Kiel stick."

ORION-L®

The ORION-L®SD allows you to choose direction and "steer" into and around pipe fittings. Sharing the same great features as the ORION® SD in addition to lateral launch capability.

**NANO® SD**

The NANO is compatible with a pushrod, tractor, or lateral launch and shares many features as the ORION® SD, making it a very diverse, small diameter inspection camera.

**ORION® SD**

While the ORION® SD may be small in size, this camera is not limited in applications. Pan & Tilt, Integrated location transmitter, Auto-uprighting, Auto-iris, and Adjustable focus.

**ORPHEUS® 2**

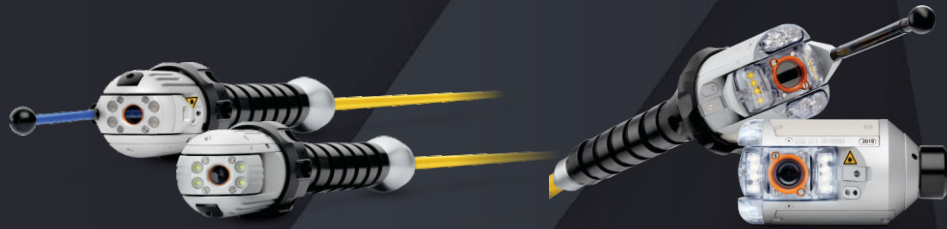
The ORPHEUS® 2 is designed for larger diameter pipes and is equipped with powerful lighting that can effectively illuminate pipelines up to 120" (3050mm) diameter.

NEED A BETTER PICTURE?

Give system owners the information they need in **full HD Resolution** and avoid blurry, out of focus pictures. Scan the QR code to see our HD cameras in action!

**SD CAMERAS**

Features	AxialCam 2.0	NANO	NANO-L	ORION SD	ORION-L SD	ORPHEUS 2
Range (Diameter)	3" and up	3" and up	3" and up	4" and up	4" and up	6" and up
Sonde Transmitter	In Pushrod	In Camera	In Camera	In Camera	In Camera	N/A
Pan & Tilt		●	●	●	●	●
Zoom				x16 Digital	x16 Digital	x10 Optical; x12 Digital
Auto-Iris		●	●	●	●	●
Always Upright Image		●	●	●	●	●
Auto-Focus						●
Laser Measurement		●	●	●		●
Pushrod Capability	●	●	●	●	●	
Lateral Navigation			●		●	
E-Flip						●
High Definition Video						



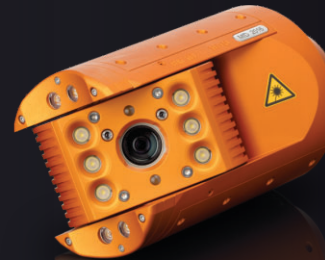
NANO® HD

The NANO® HD is a small-diameter inspection camera capable of delivering full HD (1920x1080) images. This flexible camera is great in small mainline inspections on a camera tractor, and the **NANO-L® HD** is perfect for push applications and lateral inspections with the Kiel Stick for navigating tight fittings.



ORION® 3 HD/SD

The ORION® 3 is an HD/SD adaptive zoom camera. It can provide an SD image or a high-quality HD resolution image. This camera will automatically detect your system capabilities and output the best quality image that your system will allow. The **ORION-L® 3** is great for industrial applications or lateral launching in full HD.



ORPHEUS® HD

The ORPHEUS® HD camera delivers exciting features and incredible HD picture clarity, all while delivering enough clean, bright LED light to illuminate huge areas. Don't settle for low-resolution inspections when you can leverage the quality of your service like never before with the ORPHEUS® HD.



ARGUS® 6

The ARGUS® 6 combines many of IBAK's proven features into one single camera head. Full HD resolution, ROTAX® pan mechanism, automatic lighting control system, and one-push auto-focus ensure that you will always have the best possible view, and is equipped for a wide variety of uses.

NANO® HD



HD CAMERAS

Features	NANO-L HD	NANO HD	ORION-L 3	ORION 3	ORPHEUS 2 HD	ARGUS 6
Range (Diameter)	3" and up	3" and up	4" and up	4" and up	6" and up	8" and up
Sonde Transmitter	In Camera	In Camera	In Camera	In Camera	N/A	N/A
Pan & Tilt	●	●	●	●	●	●
Zoom			x2 Optical; x16 Digital	x2 Optical; x16 Digital	x10 Optical; x12 Digital	x10 Optical; x16 Digital
Auto-Iris	●	●	●	●	●	●
Always Upright Image	●	●	●	●	●	●
Auto-Focus	●	●			●	●
Laser Measurement	●	●		●	●	●
Pushrod Capability	●	●	●	●		
Lateral Navigation	●		●			
E-Flip					●	ROTAX
High Definition Video	●	●	●	●	●	●

FUNCTIONALITY & FLEXIBILITY

IBAK tractors are designed and engineered to be compact and heavy allowing you to work in a variety of pipeline environments. While each tractor has its own unique strengths, you can easily make your decision based upon the expected inspection length required and the diameter of pipelines you will be inspecting. Compact, powerful, durable and agile, the T66 and T76 tractors will provide you with years of dependable operation.

T66

Small and agile, yet more powerful than other brands twice its size – the T66 tractor is the core of an effective inspection system for pipelines ranging from 4" (100mm) to over 24" (600mm) in diameter.

T76

The T76 has the broadest range of any tractor system capable of inspecting pipelines 6" (150mm) and up, and also accepts the LISY® Lateral Launch attachment making it a complete mainline and lateral launch solution.



Wheelsets can be changed quickly, making it easy to adapt to any pipeline conditions!



T76 HD Tractor + ARGUS® 6 Camera
Equipped with Large Pneumatic Tires

Features	T66	T76
Pipe Diameter	4" (100mm)+	6" (150mm)+
Distance	Up to 1000' (300m)	Up to 1640' (500m)
Zero Radius Steering	●	●
2-Axis Pivoting Connector	●	●
Auto Tilt Compensation (ATC)	●	●
Location Transmitter		●
LISY Attachment (optional)		●
Elevator Attachment (optional)	Manual / Electric	Electric

AUTOMATIC TILT COMPENSATION (ATC)

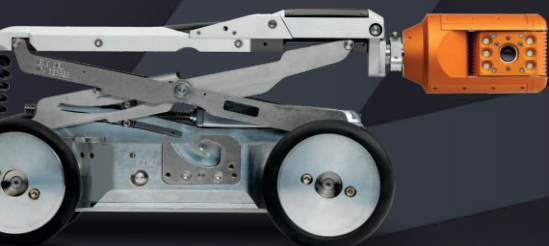
One of the most unique technical features that IBAK steerable tractors provide is ATC - Automatic Tilt Compensation. An internal sensor recognizes when the tractor is beginning to climb the pipe wall and will automatically steer the tractor back to the center of the pipeline. This dramatically reduces the chances of time consuming and expensive repairs caused by flipping over during operation.

Automatic Tilt
Compensation



HEAVY BY DESIGN

Why should a tractor be heavy? Traction is only achieved by friction between the contact surface (wheel) and the pipe wall. Our systems pull longer distances and through slippery lines because we build them out of dense materials that provide the maximum traction.



T76 elevators are remotely powered allowing you to raise your camera up out of water or debris!



T66 HD Tractor / ORION® 3 /
T66 Remote Lift + Height Attachment



T76 HD Tractor / ORPHEUS® HD / Elevator Lift

T76 HD Tractor / ARGUS® 6 / Universal Lift Kit

HD TOUCHSCREEN PORTABLE CONTROLLER

The portable BP 3 controller is designed to be easy to use, economical and compatible with many different IBAK systems, including the MainLite® HD compact cable reels, MiniLite® 3 HD push systems, and the MicroGator AIR. The controller features a large 12" Windows PC touch screen with IKAS Recorder software pre-installed, and can be mounted in a vehicle or on a mobile rack for off-road inspections. The BP 3 also features Bluetooth, WIFI, and USB connections for flexible exporting options.



BP 3 Controller
with Portable MainLite® HD System

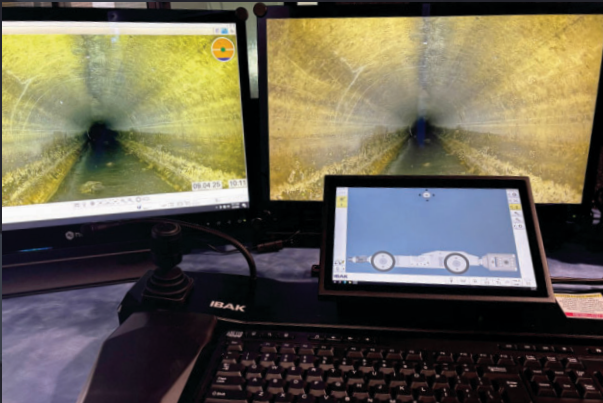


Compatible with MainLite HD
and MiniLite 3 HD Systems!

Controller Features	FIBER OPTIC		
	BS 3.5 - 10X	BP 3	BS X PRO
Pushrod Control	●	●	●
Portable w/ Digital Recording		●	
Mounting	Fixed	Portable or Fixed	Fixed
Lateral Launch Control	●		●
Tractor Control	●	●	●
PANORAMO Control	●	●	●
Text Entry (On Screen Display)	●	●	●
Fiber Optic Reel Control	1000' (300m)	●	●
High-Definition Capable		●	●

FIBER OPTIC CONTROL UNIT FOR HD/4K INSPECTION

The **BS X PRO** is the standard fiber optic control unit for mainline inspections and electric rehabilitation systems. This control unit supports high-definition cables, camera systems, and our 4K 360° scanning systems (PANORAMO). Control the camera & tractor movements, cruise control, lateral launch commands, and more all from the multi-axis joysticks. System information is displayed on the touchscreen monitor that is included, as well as additional controls. The remote control board on the control unit acts as your diagnostic and control interface, making all system functions easily accessible. Controls are fully customizable for user-preference.



CABLE REELS - MAKING YOUR JOB EASIER

The cable reel is one of the most important pieces of the inspection system. IBAK's line of cable reels are designed specifically to work with IBAK equipment and to withstand the harsh environments you may encounter. All mainline cable is Kevlar reinforced and coated for protection. Our fiber-optic reels use special cable that is stronger and lighter than traditional coax cable. IBAK cable reels make your job easier with features like synchronized operation, automatic level winds, and remote controls.



KW 307
MainLite® Cable Reel

KW 207 & KW 307

The KW 207 and KW 307 are designed to be compact, powerful, and easy to maintain. Both of these fiber optic cable reels include an automatic level wind, powerful retrieval motor, rear tractor/winch controls, and an emergency stop switch. The only difference between the two is the cable length - the KW 207 offers 656' (200m) of cable while the KW 307 allows you to inspect up to 1000' (300m). An economical solution for mainline inspections in full HD resolution (1920x1080p). Whether used as a portable system, or mounted in a vehicle, trailer, or UTV. Also compatible with the MicroGator® AIR cutting system.

What is the difference between "powered" and "synchronized" cable retrieval?

All IBAK cable drums are capable of retrieving down-hole equipment quickly and efficiently. Cable drums with "synchronized" cable retrieval have a smart sensor on the boom which tells the drum to speed up or slow down according to cable slack. Drums with this feature require less monitoring and can increase the safety of personnel as well as your equipment. "Powered" drums lack this special sensor and are completely controlled by the operator.

FIBER OPTIC CABLE REELS

Features	KW 305	KW 207	KW 307	KW 317	KW 507
Range (Distance)	1000' (300m)	656' (200m)	1000' (300m)	1000' (300m)	1656' (505m)
Mainline Inspection	●	●	●	●	●
Cable Retraction	Full Synchro	Power Assist	Power Assist	Full Synchro	Full Synchro
Built-In Lowering Winch	●			●	●
Fiber Optic Capability		●	●	●	●
HD Operation		●	●	●	●
4K Available		●	●	●	●



KW 507
Fiber Optic Cable Reel

KW 305

The KW 305 smart drum is the standard cable reel for SD mainline and lateral launch inspections. Features include adjustable boom and optional work light, integrated power winch for lowering and retrieving equipment, automatic level wind, fully synchronized cable management, and a remote control pendant for tractor and lateral launch functions. Capacity is up to 1000' (300m) of high-strength cable.

KW 317

The KW 317 maintains the same footprint and features of the KW 305, but can use up to 1000' (300m) of high-strength, low weight **fiber-optic cable** for use with HD cameras and PANORAMO® 4K Systems.

KW 507

Whether you're operating in standard definition or you want to perform **HD or 4K inspections**, look no further than the KW 507. This synchronized cable reel has all the same great features as the KW 317 and accepts up to 2000' (600m) of high-strength standard or fiber-optic cable. The KW 507 allows longer distance inspections and has the capability of transmitting data from HD cameras and PANORAMO® 4K Systems.

Smart Drum
Synchronization



Smart Drum Synchronization - Synchronized cable retraction and payout reduces wear on the cable, increases production, and greatly reduces the chance of backing over your cable during retrieval.
(Included with KW 305, KW 317, and KW 507)

Lowering Winch - The built-in lowering winch makes lowering and removing equipment from the pipeline safer and easier, and significantly reduces the chance of equipment being dropped and damaged.
(Included with KW 305, KW 317, and KW 507)

Cable Cleaning Brush - Add a cable cleaning brush to your cable reel to help knock off excess dirt and debris during retrieval. (Available for KW 305, KW 317, and KW 507)

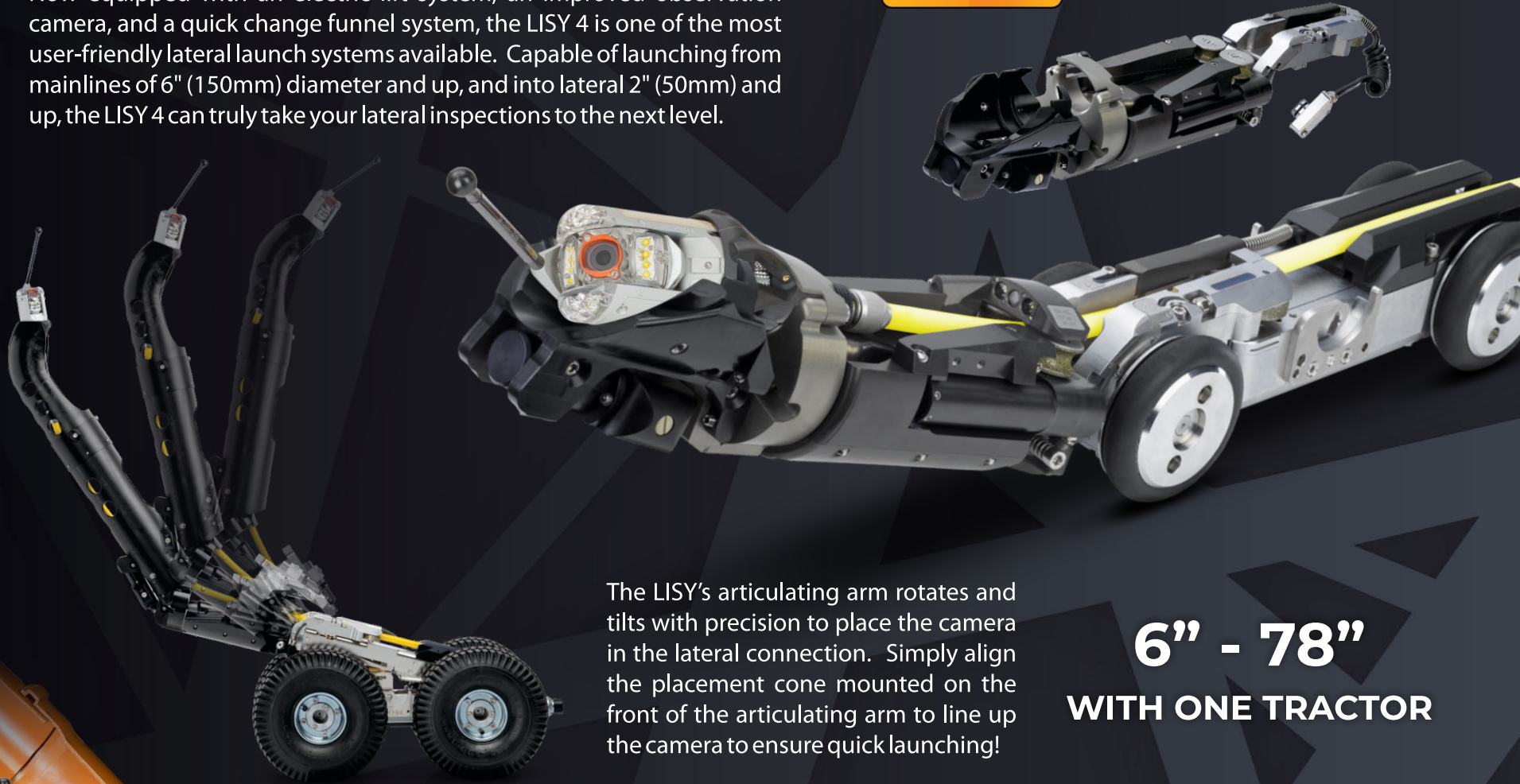
LATERAL LAUNCH

LISY® 4 LATERAL LAUNCH

Looking for a lateral launch system that can handle even the most challenging inspections? Look no further than the LISY 4 from IBAK. Now equipped with an electric lift system, an improved observation camera, and a quick change funnel system, the LISY 4 is one of the most user-friendly lateral launch systems available. Capable of launching from mainlines of 6" (150mm) diameter and up, and into lateral 2" (50mm) and up, the LISY 4 can truly take your lateral inspections to the next level.



Make the most out of your HD System by adding a LISY 4 Lateral Launch Attachment!



The LISY's articulating arm rotates and tilts with precision to place the camera in the lateral connection. Simply align the placement cone mounted on the front of the articulating arm to line up the camera to ensure quick launching!

6" - 78"
WITH ONE TRACTOR

MODULAR DESIGN

The ergonomic design and rugged construction of the LISY 4 System ensures that you will experience less breakdowns and more time in the field. This modular attachment was designed to be easy to use, simple to maintain, and safe to operate. The LISY 4 Attachment connects to your existing T76 Camera Tractor with ease so there is no need for a separate lateral launching system.



1 QUICK CHANGE FUNNEL

Our quick change funnel system is compatible with your existing funnels and also adds the option for our new aluminum funnels.

2 FUNNEL ROTATE MOTOR

The LISY 4 boasts a robust funnel rotate motor that allows operators to inspect larger diameter pipe.

3 HD OBSERVATION CAMERA

Our improved observation camera allows operators to view the position of their launch camera with clarity, in HD resolution!

4 ELECTRIC LIFT SYSTEM

Make adjustments on the fly - control the height of your system while it is underground!

5 LARGE DIAMETER

When using the Electric Lift System and the Quick Change Funnel System in conjunction, the LISY 4 can cover pipe diameters from 16" up to 78".

6 KW LISY REEL (Synchronized)

The KW LISY Synchronized reel makes launching and retrieval easy by automatically managing the pushrod cable with the mainline cable reel.

LISY 4 Technical Specifications

Pipe Diameter	6" - 78" (150mm - 1980mm) w/ accessories
Pressurized Protection	Standard
Pan Range (Articulation Arm)	180°
Tilt Range (Articulation Arm)	45°
Push Speed	Variable Control
Overall Cable Length	600' (182m)
Push Rod Length	120' (36m)

PERFORMANCE IS KEY

IBAK designed PANORAMO® from the ground up to address the weaknesses of traditional sewer inspection technology. The PANORAMO® method changes your current process into data collection in the field and data analysis back in the office. This technology enables your employees to work to their potential and avoid costly mistakes. The PANORAMO® 4K technology allows you to inspect more than twice as much pipe per day, reduce your operating costs by more than 30%, and provide system users high definition imagery.



PANORAMO® 4K

Inspect pipelines 8" (200mm) and up



PANORAMO® 150 4K

Inspect 6" (150mm) pipelines and up

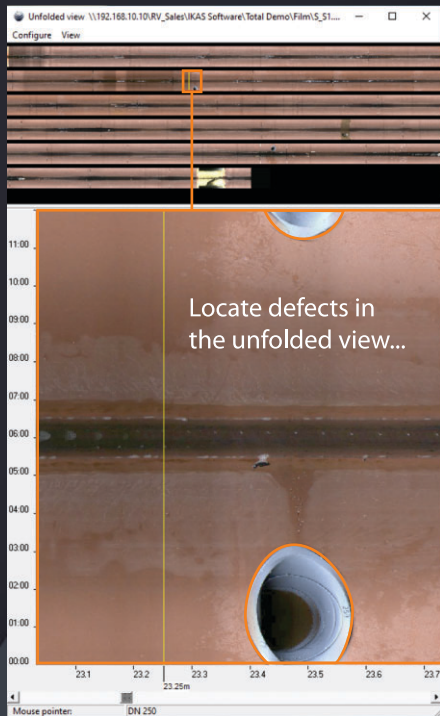
SUPERIOR 4K IMAGE QUALITY

PANORAMO® 4K is fast and clear. The abbreviation 4K stands for 4000 and means the approximate number of horizontal picture elements (4096×2160 pixels), making the resolution four times greater than full HD. Users collect data at a rate of up to 69ft. (21m) per minute with the PANORAMO® 2 4K, and 40ft. (12m) per minute with PANORAMO® 150 4K, without needing to stop. All of this adds up to a technology that reduces your cost, increases your productivity, and dramatically enhances your deliverables.

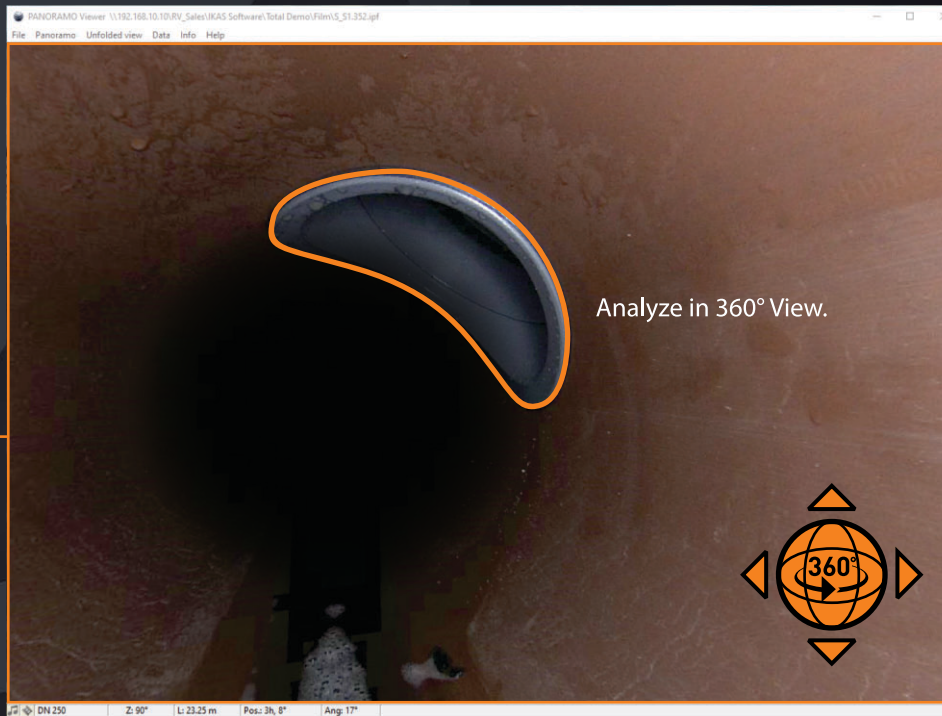


PANORAMO 4K Technical Specifications

Maximum Speed (PANO 2)	69ft. (21m) / min.
Pressure Protection	Standard
Viewer Software	Free, Distributable
Cameras	Twin 185° Digital
Zoom	Digital
3D Perspective View	Standard
Unfolded View	Standard
Measurement	Standard
Lighting (PANO 2)	Xenon Strobe
Lighting (PANO 150)	High Power LED

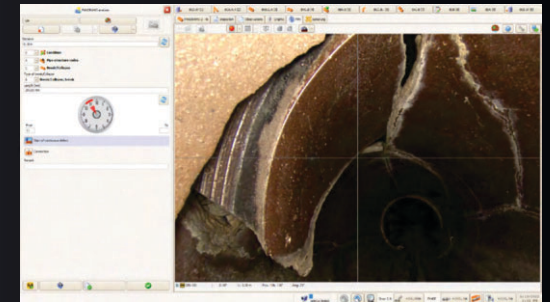


Unfolded View



360° Perspective View

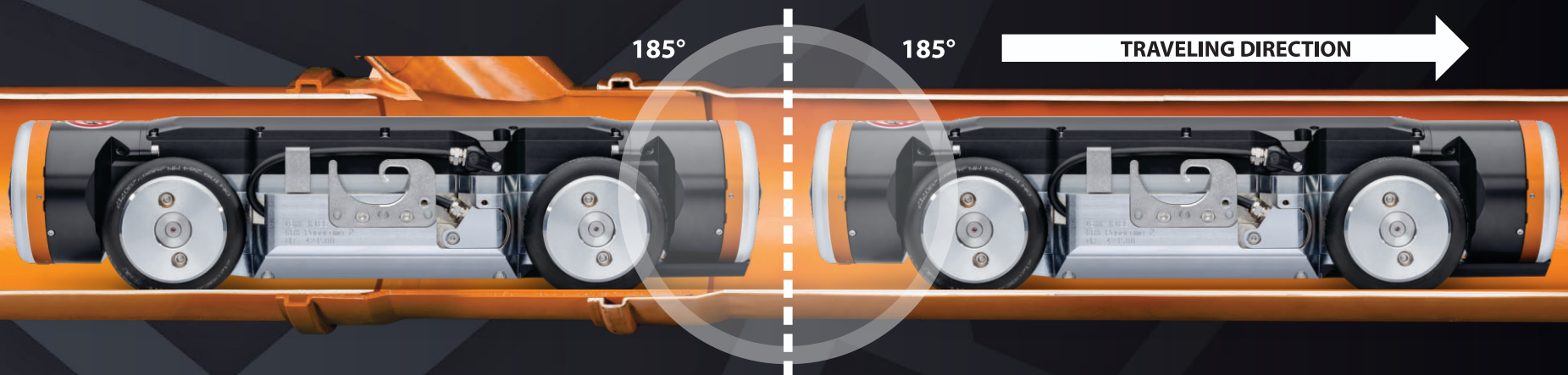
PANORAMO 4K
Technology



*PANORAMO® Inspection Wizard
in IKAS Evolution*

TWIN CAMERAS + POWERFUL LIGHTING

At the core of the PANORAMO® system are the wide angle (185°) twin digital cameras. These cameras are installed on the front and rear of the system and capture still images as they move through the pipeline. Extremely powerful Xenon strobes illuminate up to 48" pipelines with the PANORAMO® 2 4K, and the still pictures captured by the cameras produce high-resolution digital images that do not suffer from motion blur even at the highest inspection speeds. The PANORAMO® system has very few moving parts, allowing for easier maintenance than that of traditional pan & tilt cameras.



PANORAMO® SI 4K

PANORAMO SI
Technology



NEVER MISS AN OBSERVATION

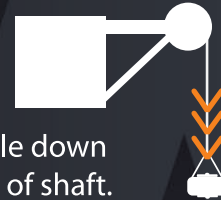
The PANORAMO® SI 4K has revolutionized the way system owners inspect their buried structures. Manholes, duct boxes, storm drains, and any other underground chamber that can be inspected quickly and safely with this system. With its unique ability to capture every inch of the manhole from multiple angles, you can keep your employees safe, increase productivity and accuracy of your crews, provide data that helps system owners make informed decisions, and never miss an observation.

1



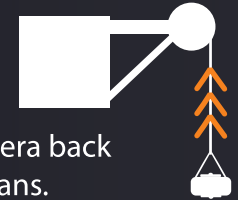
Set up over shaft.

2



Lower cable down
to bottom of shaft.

3



Raise camera back
up as it scans.

DATA COLLECTION MADE EASY

Inspecting a manhole with PANORAMO® SI 4K is as simple as 1-2-3! All you have to do is lower the unit into the manhole, turn it on, and pull it back up. While doing so, it captures 3 different views - a 360° perspective, an unfolded view, and a geometric view. No other system captures the quality or quantity of data like that of the PANORAMO® SI 4K.

100%
COVERAGE

4X
FASTER

360°
PERSPECTIVE

KW SI® 50

This motorized drum is perfect for installation in an inspection vehicle or ATV. Running 120VAC, this unit has 165' (50m) of 4K Fiber Optic cable to take your manhole inspections even further while maintaining a compact footprint. Featuring level wind, optional extendable drawer, multi-position boom, and remote control pendant. A great option when you are outfitting a dedicated manhole inspection unit.



KW SI® 50

IBAK KIEL
478419
MFD 2019

KW SI® + MOBILE RACK

Inspecting off-road or hard to reach manholes just got easier. This compact and portable cable reel can be operated from the mobile rack with a laptop, or it can be installed in a vehicle. The quick-acting fasteners allow the cable reel and mobile rack to be removed from the vehicle and converted into a mobile system in a few easy steps. All of the components of the system are intended for outdoor use, from the large pneumatic tires to the water-resistant laptop. Power is supplied from high-efficiency standard rechargeable batteries or a lithium battery installed in your vehicle.



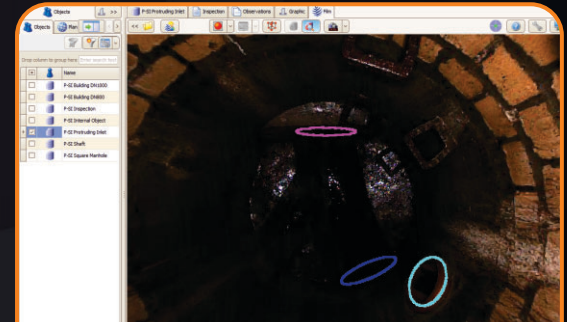
PANORAMO SI 4K Technical Specifications

Maximum Speed	14" (35cm) / sec.
Minimum Diameter	12" (300mm)
Pressure Protection	Standard
Viewer Software	Free, Distributable
Cameras	Twin 185° Digital
Zoom	Digital
CAD Output	dxr
3D Measurement	Available

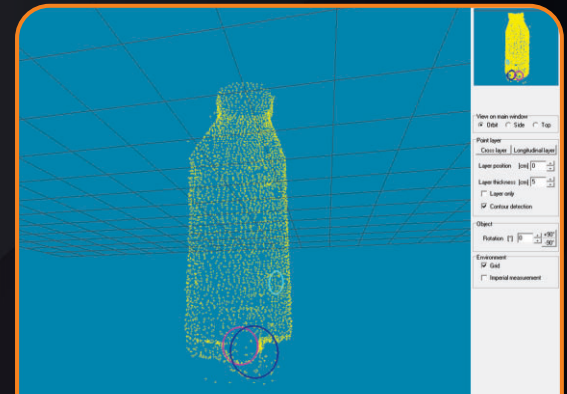
COMPATIBILITY

Choose the PANORAMO® SI 4K as an add-on to your existing PANORAMO® system, or as a portable stand-alone unit, self-contained on a compact 4'x4' skid for easy transportation. On the skid, the unit can easily be mounted in a cargo van, pick-up bed, or an off-road ATV. The electronics are housed in a military-style case with a flip-up monitor and keyboard, making it a durable and convenient solution for manhole inspection.

3 VIEWS FOR ANALYSIS



360° PERSPECTIVE VIEW



GEOMETRIC POINT CLOUD



UNFOLDED VIEW

MICROGATOR® 2.0

This powerful, single-point electric reinstatement cutter is equipped with many incredible features. The durable chassis deploys a high-powered cutting motor that is capable of getting through materials found in the sewer, with no disturbances from noisy compressors. The MicroGator® 2.0 also features the option for 4th Axis Articulation, allowing forward cuts with ultimate control. The IBAK CutterCam® is located directly behind the cutting motor, always ensuring a clear view of the work area. Depending on the conditions of your job site, there are many optional accessories available such as cutting motors, cutting shaft extensions, wheel sets, and more.

MicroGator 2.0
Setup Guide



1 FRONT-VIEWING CAMERA

The BG 1 Motor allows users to install a front-viewing camera for better forward awareness while traveling down the pipeline.

2 MOTOR OPTIONS

Additional motor sizes are available, and designed for specific applications and job conditions.

3 CUTTING HEADS

MicroGator® systems come with three standard cutting bits, and additional bits are available for purchase from recommended third-party vendors or local hardware.

4 FOURTH AXIS ARMS

These optional arms can be attached to easily tilt your cutter head forward for ultimate control while removing intruding roots, reinstating laterals, etc.

5 IBAK CUTTERCAM®

The IBAK CutterCam® is located directly behind the cutting motor, always ensuring a clear view of the work area, and keeps the lens clean with our unique air-curtain technology.

6 ROTATING ELBOW

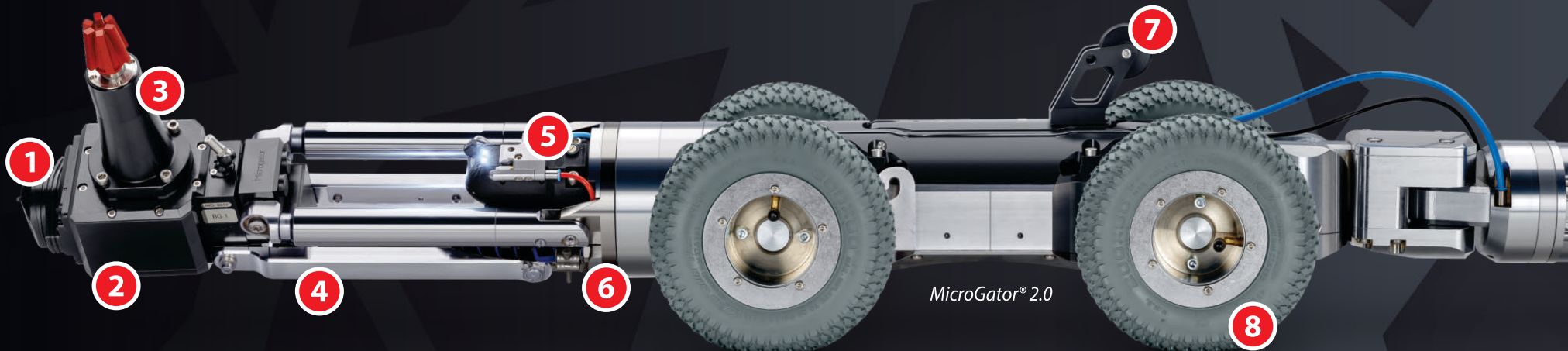
MicroGator® Systems allow for 400° rotations, so even the most complex geometry can be removed in a single cut.

7 HIGH STABILITY

With a small, compressed airbag, the stability arm can be raised/lowered as needed to achieve stability in the pipe.

8 WHEEL SETS

MicroGator® Systems use the same wheel sets as the popular T76 Camera Tractor for additional modularity.

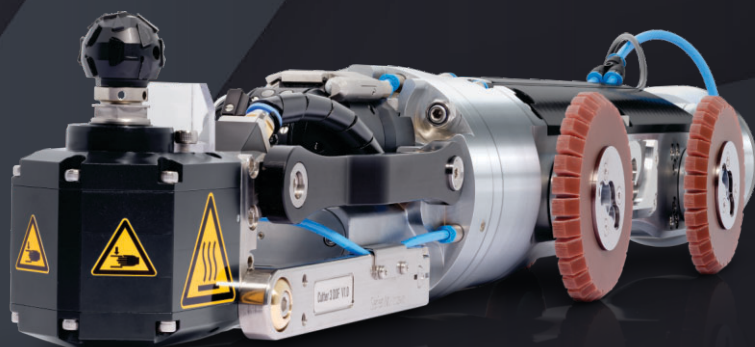


MICROGATOR® 150

Don't let its size fool you - IBAK's compact cutter is small enough to fit in tight lines, but delivers the power that our MicroGator® product line is known for. The MicroGator® 150 was designed with versatility in mind, providing optional modular attachments to tackle any rehabilitation job. Simply attach your front-end attachment kits to transform your cutter system into a UHP jetter, top hat packer, etc. Interchangeable wheel sets are included and allow the carrier to squeeze into 6" pipes and up.



INTERCHANGEABLE TOOL HEADS



MicroGator® 150



3-Axis
Carrier Head



3-Axis
Cutter Head



4-Axis
Cutter Head

Dimensions	MicroGator 150	MicroGator Air	MicroGator 2.0	MicroGator GT
Range of Application	6" (150mm) and up	8" (200mm) and up	8" (200mm) and up	System Dependent
Cable Length	500' (150m)	Up to 1000' (300m)	500' (150m)	System Dependent
Cutting Motor Power Source	Electric	Pneumatic	Electric	System Dependent
Pressure Monitoring	●	●	●	●
Continuously Variable Speed	●	●	●	●
Observation Camera	●	●	●	●
Front Camera			●	
Reverse Camera	●	●	●	●
Camera Lens Cleaning	●	●	●	●
Inspection	●	●	●	
UHP Water Jet Cutting	●			●
Set Top Hats	●	●	●	
Set Sleeves	●	●	●	

MICROGATOR® AIR

IBAK developed this affordable solution that is ideal for service providers seeking the benefits of having both a compact sewer cutting system, as well as a complete inspection system. Look no further than the MicroGator® Air, a pneumatic pipe rehabilitation tool designed with compatibility and convenience in mind.

The MicroGator® Air is modular by design, and can be added to any of our HD/SD Inspection systems. All that is needed is an air hose and a compressor to complete your cutting system. Sharing many of the same features that make our MicroGator® 2.0 so great, this cutter system is worth a look if you're in the market to add rehabilitation services to your workflow.

BS X PRO

MicroGator® Air works seamlessly with the BS X PRO controller.



BS X PRO
Controller



MicroGator® Air

ST 100
Air Hose Reel



KW 207
w/ Portable Cart

AIR COMPRESSOR (not pictured)

An industrial air compressor is required to operate the MicroGator® Air.
(70 ft³ / 2m³ at 7.0 BAR minimum)

ST 100 AIR HOSE REEL

The ST 100 Air Hose Reel was designed to be 100% compatible with the MicroGator® Air. An air hose reel is required for operation.
(Air Compressor required)

FLEXIBILITY

MicroGator® Air is compatible with all of our cable reels for HD/SD Inspection (KW 207/307/305/317/507). Conveniently add a MicroGator® Air to your existing inspection system.
(Hose reel + Air Compressor required)

MICROGATOR® GT

The MicroGator® GT creates new possibilities for the controlled removal of large, resistant deposits in the pipeline. The rotating water-jet nozzle can be attached to your MicroGator® tractor, with an additional high-pressure water hose, to transform your cutting and grinding robot into an Ultra-High-Pressure water jetting system. The MicroGator® GT has infinitely adjustable working pressure from 9.000 to 37.000 PSI and 3 to 13 GPM (gallons per minute). The CutterCam® provides a constant view of the operating area so you can see exactly what you are cutting/jetting. The MicroGator® GT has a large range of motion with a 400° Rotating elbow, full pan & tilt functionality, as well as 4th-Axis Articulation, giving operators ultimate control during operations. There are a variety of different nozzle types available for purchase, including point blasting. Elevate the rehabilitation services you offer with this next-level upgrade to your MicroGator® system.



UNIVERSAL LIFT KIT

Expand your range of applications with one lift kit for all of your IBAK systems. The Universal Lift Kit is compatible with our MicroGator® rehabilitation systems (excluding MicroGator® 150) as well as our T76 camera tractors for pipe inspection.



MicroGator GT
Demonstration



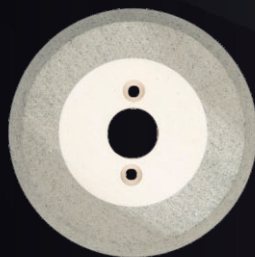
MicroGator® GT with Universal Lift Kit

ACCESSORIES



HIGH TRACTION WHEELS

With imbedded tungsten carbide shards that are almost as hard as diamonds, these heavy, specialized wheels provide incredible traction in nearly any pipe.



GRANULATED WHEELS

Designed to avoid damaging the pipe wall, these wheels utilize a granulated rubber composite which improves traction without cutting into the pipe surface.



TREADED WHEELS

Available in two different composites, these wheels provide extra grip in loose gravel, and give you an edge when climbing up offset pipeline joints.



PNEUMATIC TIRES

These air-filled tires are great all-purpose wheels for use in larger diameter pipelines. Use them to climb over obstacles and power through silt and debris.

Every IBAK system comes with a standard set of rubber wheels, but some conditions may require more traction in the pipe. Our T76 wheels are compatible with the MicroGator® System.

ADDITIONAL WEIGHT KITS

Adding weight to your tractor can dramatically increase traction and pulling distance. This is easily one of the most cost-effective and reliable ways to increase your capabilities.

$\text{Weight} = \text{Traction}$
 $\text{Traction} = \text{Distance}$



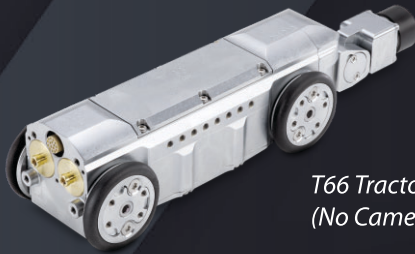
ARGUS® 6 + T76 HD

Universal Lift Kit w/ Pneumatic Tires

UNIVERSAL LIFT KIT

One extension - compatible with your T76 or MicroGator System. Adding height to your system increases the capabilities of your system by keeping you above water while adding extra weight for additional traction.

Our **T66 Tractor** is the most versatile, small tractor in the industry. The various CC (Camera Connection) provide more flexibility and can raise the camera into the center of the pipeline. These connections can easily be exchanged in a matter of minutes and are available in SD & HD.



*T66 Tractor
(No Camera Connection)*



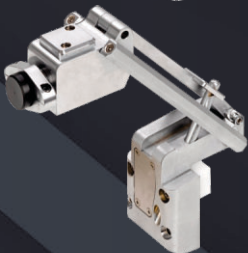
CC1 for T66: The CC1 provides horizontal flexibility and vertical rotation. This flexible connection allows easier insertion into tight access points.



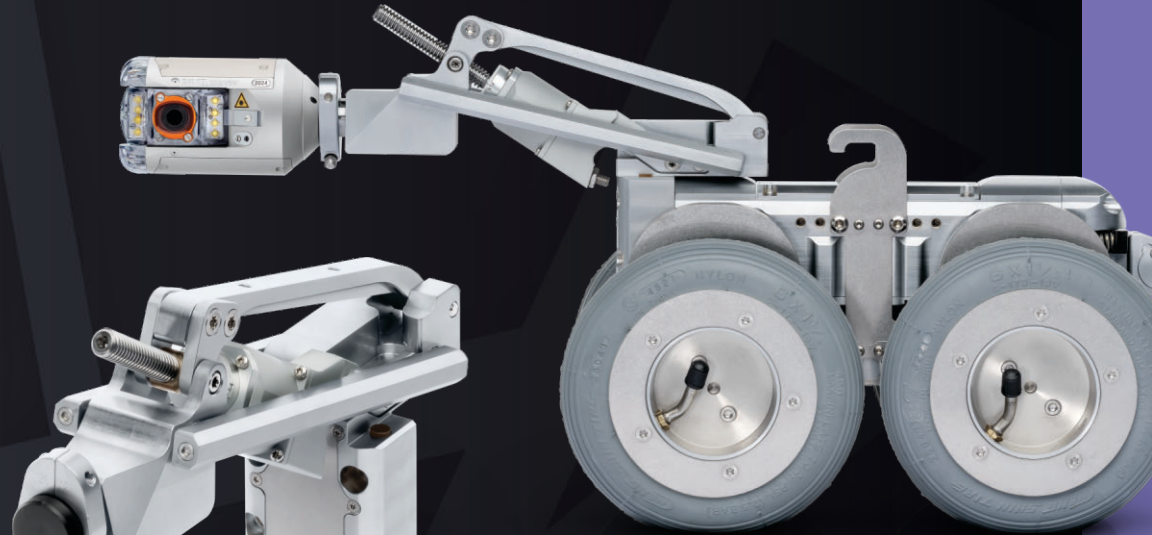
CC2 for T66: The CC2 is the choice for most T66 tractors. This sturdy connection will accept NANO, ORION, ORPHEUS, and even ARGUS cameras.



CC4 for T66: The CC4 was designed for larger pipe diameters. A manual lift allows you to raise the camera.



CC5 for T66: Like the CC4, the CC5 is designed to raise the camera even higher to the center of the pipe in larger diameters with a manual lift.



ORION® 3 + T66 HD

Electric Remote Lift + Height Attachment

ELECTRIC LIFT FOR T66

The electric remote lift for T66 allows operators to adjust the height of their inspection camera directly from the control unit! The lift kit is easy to install and mounts on the the T66 just like our other camera base modules. This increases the minimum diameter for inspection to 6" (150mm) pipe. Pair the remote lift with the T66 Height Attachment to go from small diameter to large diameter with one system! Available in both SD and HD versions. Expand your range of applications by adding an electric remote lift to your T66 inspection system.

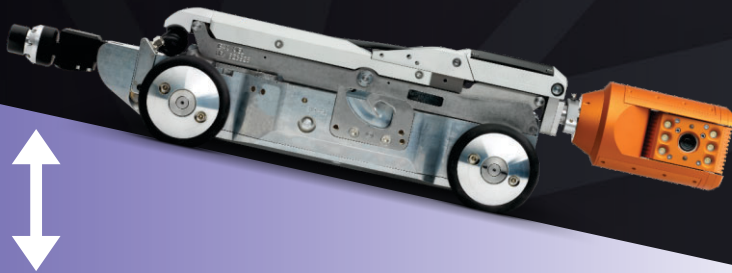


RETRUS HD Reverse Camera: Most of our systems are synchronized to make sure that you do not back over your cable while retrieving, but occasionally it is helpful to have a rear-facing view when returning to the manhole. The RETRUS HD automatically changes your view when the system is in reverse, allowing you to avoid dangers on the return trip.



ARGO CAMERA FLOAT

If you work in large partially-filled lines, the ARGO Camera Float is the perfect accessory for you. Designed specifically for your RapidView IBAK system and formed out of high-strength ABS plastic, the ARGO keeps you above water and protects the camera system. There are two camera mounts to choose from. You can use a mounting bracket which accepts a standard KKD Adapter (pictured left), or a larger mount which accepts the standard Camera Base Mount from a T76.



INCLINOMETER

All IBAK tractors have the option to include an inclination sensor which allows you to measure the tilt of the system as it travels through the line. The inclination reads out on-screen, and can be output to 3rd party data logging softwares or IKAS software packages.

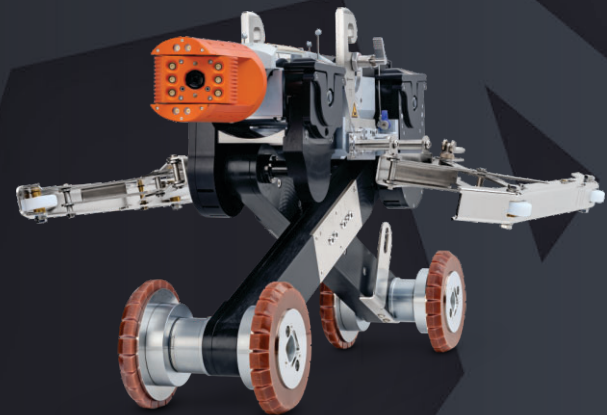
ROLLING SKID

The Rolling Skid for NANO® and ORION® cameras centers and protects the camera during push operations. The roller system reduces friction and increases push distance in 6" (150mm) pipes.

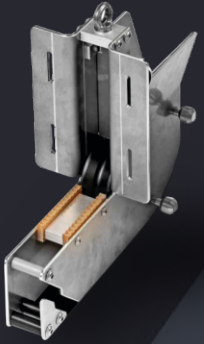


OVERTURN PROTECTION

The outriggers help keep the tractor in the center of the pipeline and prevent tip overs which can damage equipment. These systems are available for T66, T76, and PANORAMO® 2 Systems. They are also compatible with the LISY Lateral Launch attachment.

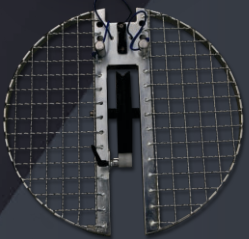


OVOID PIPE KIT: If you work in oval pipe - this accessory is a must! The Ovoid Pipe Kit paired with an Overturn Protection Kit will keep you upright & prevent tip-overs in those egg-shaped pipes.



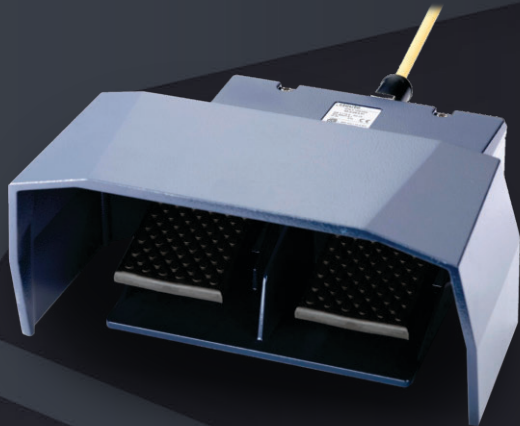
DOWNHOLE ROLLERS

Operators who protect their equipment with the use of Downhole Rollers will see an increase in production and an overall reduction of repairs and maintenance costs. Rollers protect the cable from cuts, reduce friction, wick water off the cable, and increase the distance your system can travel down the pipeline. You wouldn't buy a high performance car then put cheap tires on it, would you? Of course not! Protect your investment with a set of downhole rollers.



KUV 3.1 MANHOLE TOP ROLLER

The KUV 3.1 inserts into the top of the manhole and provides a roller down into the manhole. It also includes a safety screen to improve safety around the open manhole and a tensioner pulley to keep the cable safe. Perfect for setups away from the mainline system.



UPPER DEFLECTION PULLEY

If you occasionally have to set up off the road or any distance from the inspection vehicle, you should consider an Upper Deflection Pulley. This pulley converts the lateral force exerted onto the cable, turning into vertical force which allows your synchronized KW 305 or KW 505 to operate effectively. This simple attachment protects the cable, reduces the strain on the entire system, and helps you travel greater distances in the pipeline.

WINCH FOOT CONTROL

Protect your equipment from damage by making sure you have both hands available when lowering the inspection system into the manhole. This durable foot control plugs directly into KW 305 and KW 505 winches.



TEMPERATURE SENSOR: This unique sensor can be used to discover the presence of inflow since ground water is cooler than the effluent in the pipeline.



CAMERA ADAPTER: The Camera Adapter can be used to conduct down-hole inspections of confined spaces, shafts, underground structures, tanks, etc.

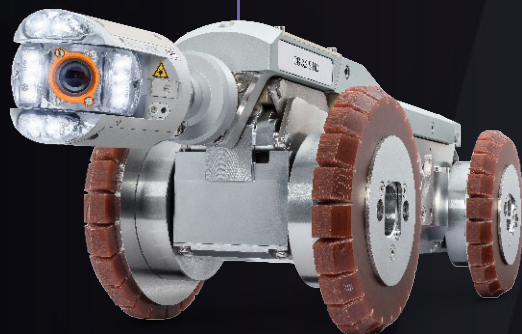


MANNED-ENTRY ADAPTER FOR ORPHEUS 2

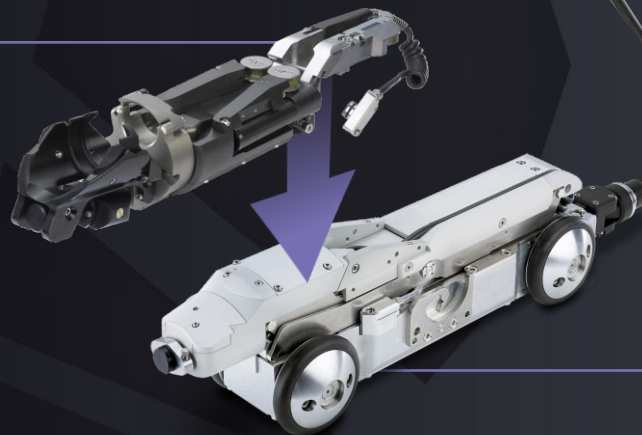
Conduct manned-entry inspections quickly and safely using your existing drum, cable, and controller along with your ORPHEUS 2 inspection camera. Includes a transport case, carrying strap, and a headset for communication.



Upper Deflection Pulley

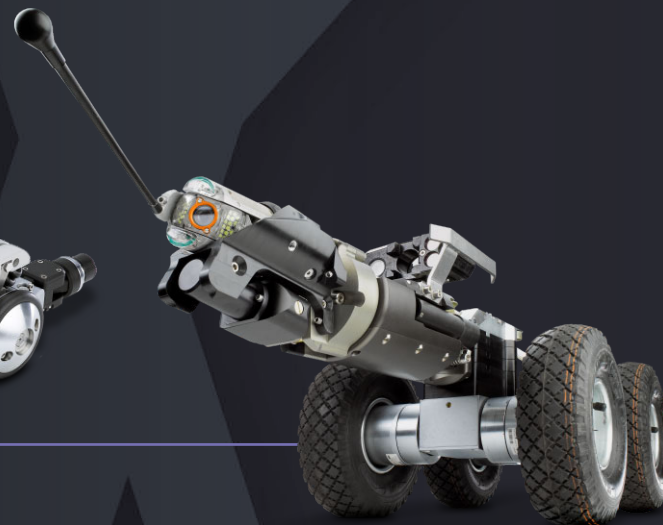


HD Mainline Inspection System



T76 Camera Tractor

LISY® 4 Attachment



HD Lateral Launch System

MAINLINE TO LATERALS IN MINUTES

Transform your T76 inspection system into a lateral launching system with the LISY® attachment. Our modular lateral launch system is the most capable system on the market. For larger mainlines, consider a Large Diameter Kit to expand your system even further (up to 48" / 1200mm). The kits come in two sizes and are compatible with all existing LISY® systems.

LARGE DIAMETER KIT

Includes additional quick-change placement funnels, large pneumatic tires, and the electric lift system that allows you to make adjustments from underground. Increases diameter capability from 16" (400mm) - 78" (1980mm).

LISY STORAGE HOLDER:

When you remove your LISY attachment from your T76 you need a place to keep it safe. The LISY Storage Holster is a convenient bracket to hold the LISY drive when not in use.

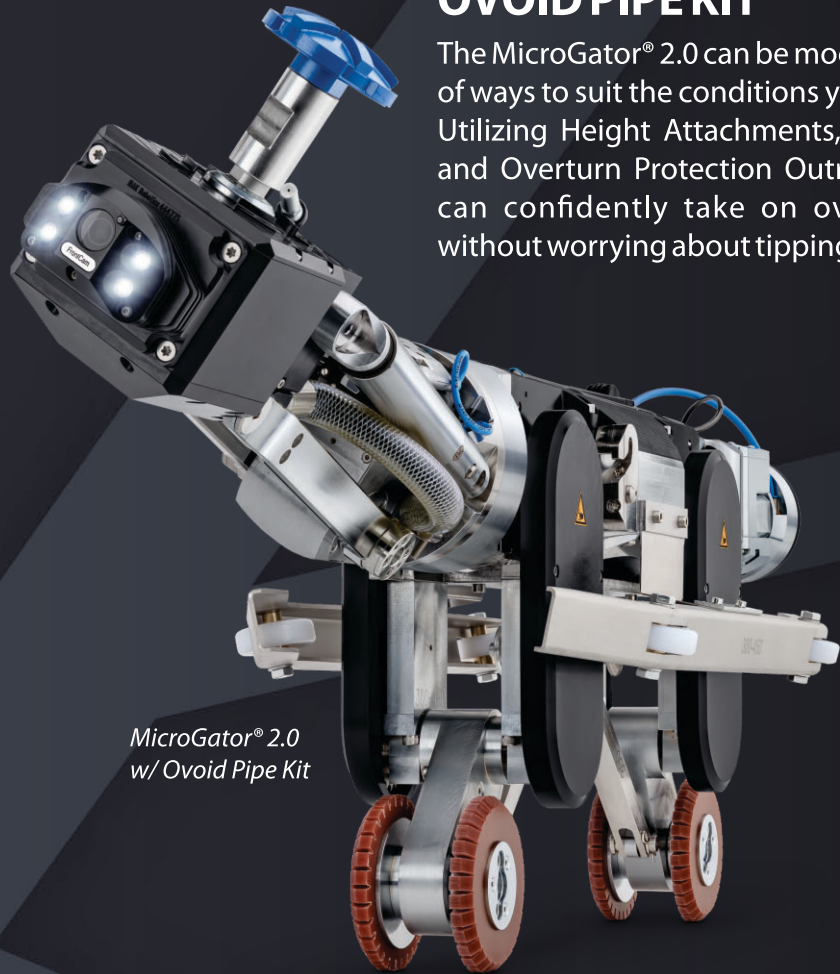


LATERAL CLEANING ATTACHMENT:

The Lateral Cleaning Attachment turns your lateral launch system into a dual-purpose inspection and cleaning tool, using the **PHOBOS nozzle** to clean while simultaneously propelling further into the lateral.

OVOID PIPE KIT

The MicroGator® 2.0 can be modified in a number of ways to suit the conditions you are working in. Utilizing Height Attachments, Treaded Wheels, and Overturn Protection Outriggers, operators can confidently take on oval shaped pipe without worrying about tipping over.



*MicroGator® 2.0
w/ Ovoid Pipe Kit*

CUTTER HEADS

A variety of cutter heads and motor sizes are available for our MicroGator Series, each designed for specific applications. Contact your sales rep to find the best fit for your rehabilitation system.

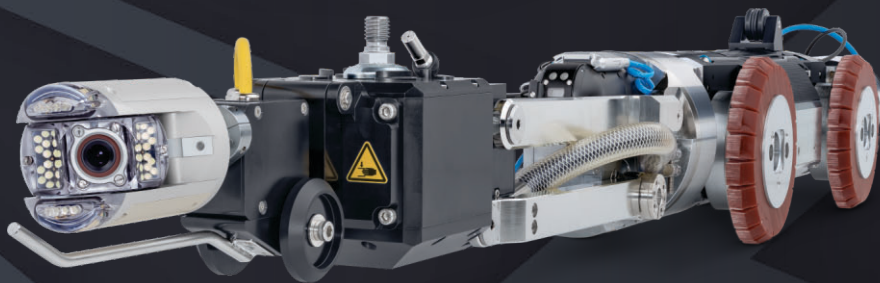
*QuickLock Packer Adapter
(Pictured with T76, also available for T66)*



PACKER ADAPTER: With the Packer Adapter, your MicroGator® 2.0 can seal cracks or joints at lateral connections by connecting a Schwalm Top Hat Packer. Equipped with an integrated camera, you will always have a clear view to accurately position the packer at the intended defect.



MicroGator® 2.0 w/ Packer Adapter



FRONT CAMERA: The optional front camera connection lets you do PRE and POST inspections with the same unit, saving time and money!



IKAS evolution

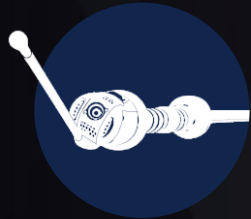
IKAS EVOLUTION

IBAK's powerful sewer analysis software designed to integrate seamlessly with your IBAK Inspection System. Unlock the true potential of your inspection system with advanced extensions, personalized workflows, and complete data interface integration. Expand your capabilities with Digital HD Recording (1080p), 3D GeoSense mapping, Laser Measurement, LaserScan Profile Analysis, and much more. Adapt IKAS Evolution to your specific inspection protocols and data management systems. Generate clear, comprehensive reports for informed decision-making. Discover how IKAS Evolution can elevate your inspection process and improve your sewer network.

*Introduction to
IKAS Evolution*



AVAILABLE IN **FOUR** BASE BUNDLES



PUSH

- MPEG Encoding IBAK MiniLite Systems
- Data Interface PACP, MACP, and LACP
- Single Laser Diameter Measurement



VEHICLE

- MPEG Encoding IBAK Vehicle Systems (Full HD & PANORAMO included)
- Data Interface PACP, MACP, and LACP
- Pointwise Measurements



MOBILE

- MPEG Encoding IBAK Mobile Systems including PANORAMO SI
- Data Interface PACP, MACP, and LACP
- Single Laser Diameter Measurement



OFFICE

- Management of sewer videos and PANORAMO films/photos
- Data interface PACP, MACP, and LACP

IKAS EVOLUTION MODULES

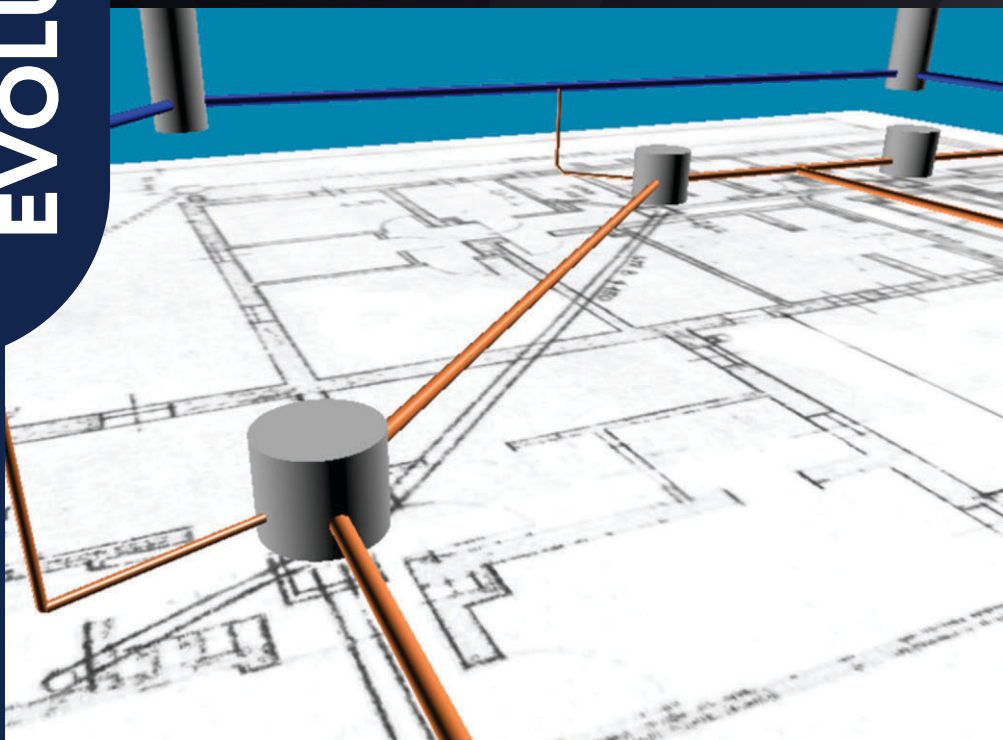
	PUSH	MOBILE	VEHICLE	OFFICE
Map Viewer	●	●	●	●
Map Editor	●	●	●	●
Map Route Assistant	●	●	●	●
3D GeoSense	●	●	●	●
Diameter Measurement	●	●	●	●
Defects Measurement		●	●	●
Laser Deformation Measurement		●	●	●
Tilt Measurement		●	●	●
Temperature Measurement		●	●	●
Job Rule Management	●	●	Included	●
Continuous Profile Analysis (LaserScan)			●	●
PANORAMO® Analysis Pipeline + SI		●	●	●
PANORAMO® Analysis SI		●	●	●
PANORAMO® SI 3D Measurement		●	●	●

MAP EXTENSION

Transform IKAS Evolution into a powerful sewer GIS. A visual of the sewer network overlays onto real-world maps, providing situational awareness. Explore any section from the sewer network from any angle with the integrated 3DViewer.

Once your sewer data is imported (via Shape, CSV, etc.), you can say goodbye to paper maps! Track your inspection jobs in real-time as the camera position updates live on the map. Inspected areas are clearly marked, and any missing coordinates can be generated or adjusted using CAD drawing tools.

Data sharing is effortless. Export sewer master data to other GIS systems using any of the supported interfaces. The free IKAS Evolution Viewer allows clients view and explore your sewer data. **Only available with IKAS Evolution bundles.**



Integrated 3D Viewer



Live creation of the path during the TV inspection

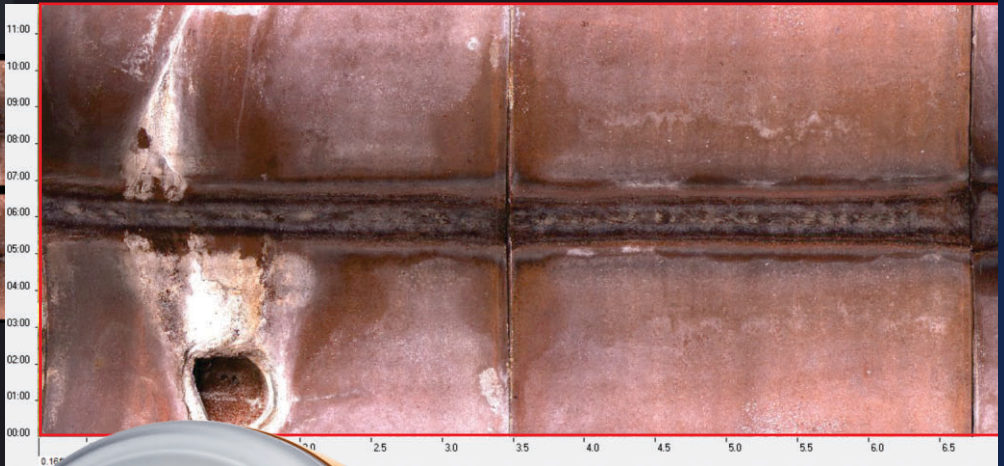
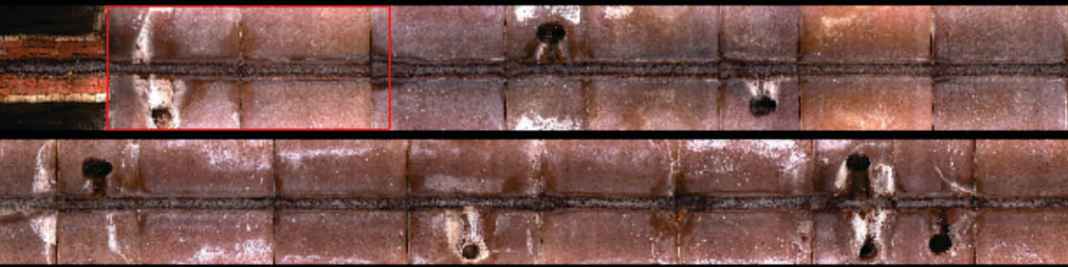
3D GEOSENSE®

IKAS Evolution 3D GeoSense transforms your sewer inspection system into a powerful 3D mapping tool. It seamlessly integrates pipe course measurement into your workflow, providing accurate and error-free data with simple, clear procedures. As you conduct your inspection, the system automatically captures precise 3D measurements as XYZ coordinates. These can be geo-referenced to existing master data for pinpoint accuracy and exported in common sewer data formats. View the map directly in IKAS Evolution, print it out, or create a DXF file for further analysis. **Only available with IKAS Evolution bundles.**

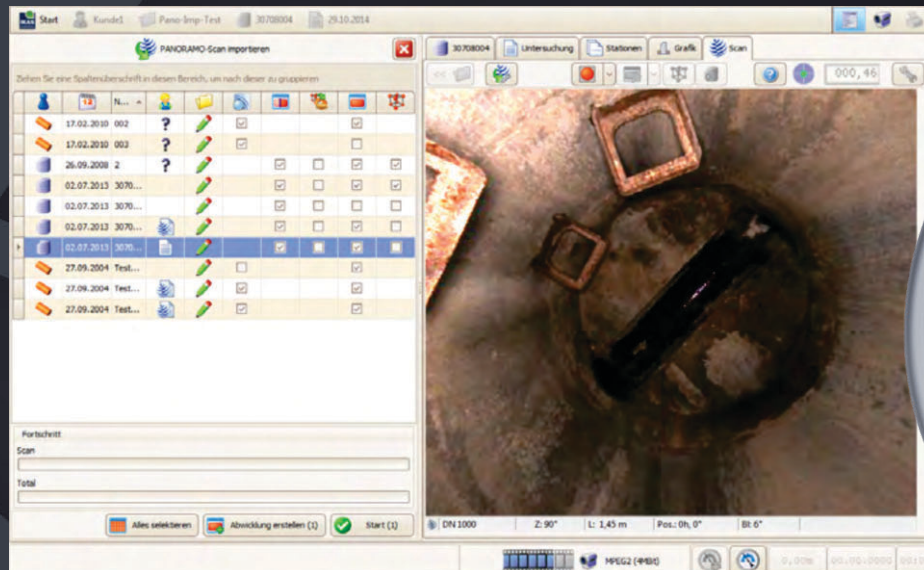
PANORAMO® ANALYSIS

IBAK's PANORAMO® system is a true alternative to traditional CCTV inspections. This established technology is available in 4K resolution and can collect sewer data at speeds up to 69' (21m) per minute. Once you've captured the data in the field, you can analyze and evaluate all from IKAS Evolution. The scan mode helps the operator meet all inspection regulations without compromising video quality. All inspections are compliant with industry standards and flexible enough to adapt to your client's needs. From condition assessment to rehabilitation planning, you can do it all from the comfort of your office. Scan now, analyze later with PANORAMO® and IKAS Evolution. **Only available with IKAS Evolution bundles.**

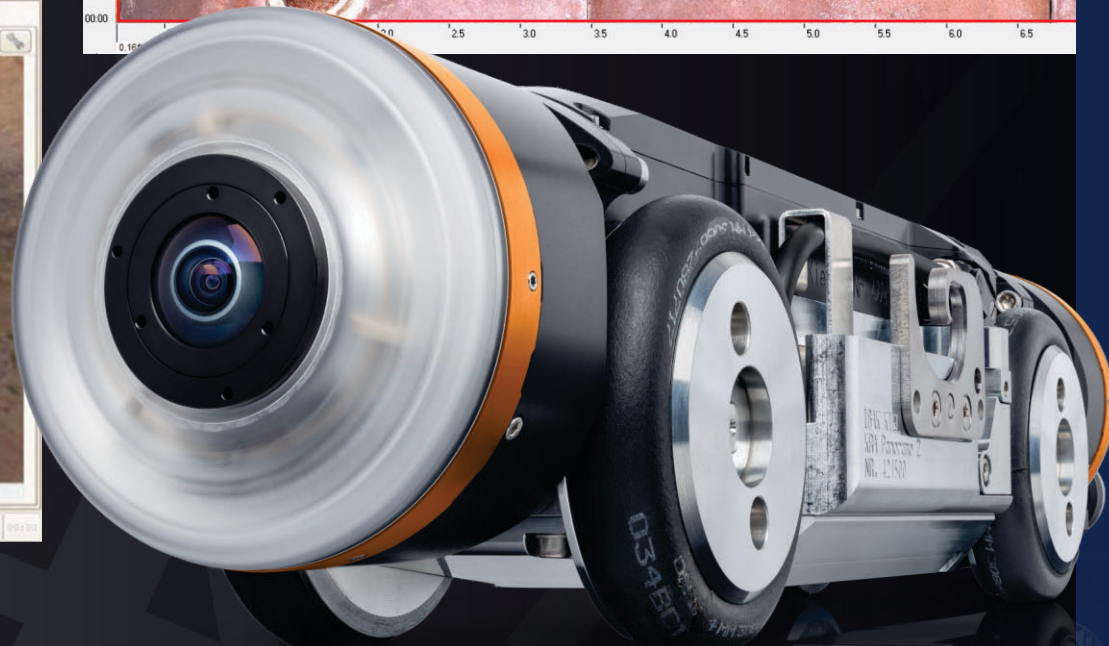
PANORAMO® 4K
Scanner Software

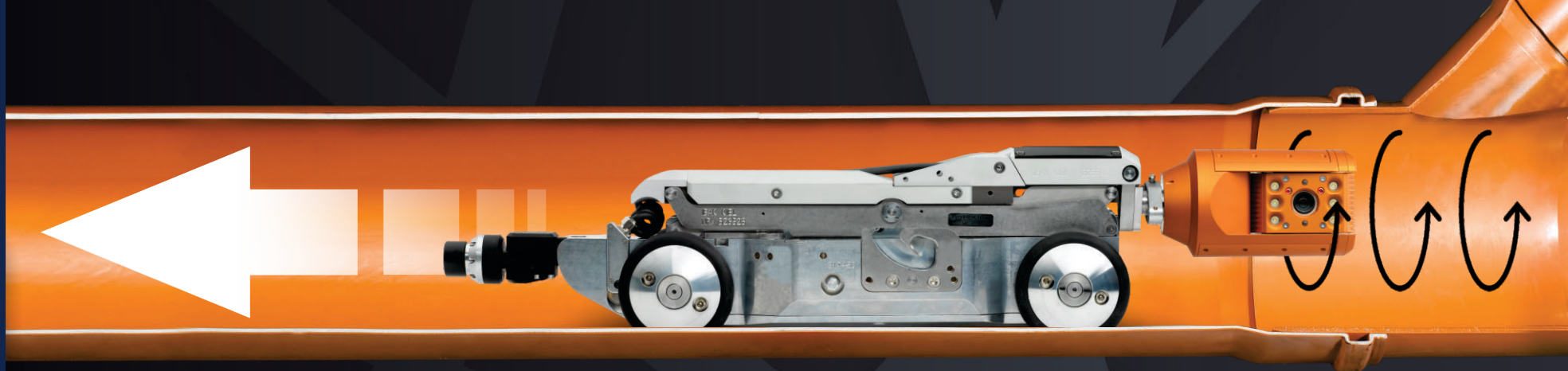


Unfolded View Timeline (Above) & Unfolded Section View (Right)



The PANORAMO wizard for importing films indicates which inspection diagrams are available and those that are missing.





LASERSCAN *(Continuous Profile Analysis)*

When you pair your ORPHEUS® 2 with IKAS Evolution Software, you can detect deformation of the whole pipe in one continuous motion with LaserScan Continuous Profile Analysis. Once you begin your scan, your system will move in reverse while the camera head rotates 300°/second. The camera takes a measurement every 12° rotation. With the profile analysis report completely integrated, identifying ovality, corrosion, reduction of cross-section, and internal geometry is easy. **Only available with IKAS Evolution bundles.**

LaserScan
Continuous Profile
Analysis



HOW IT WORKS

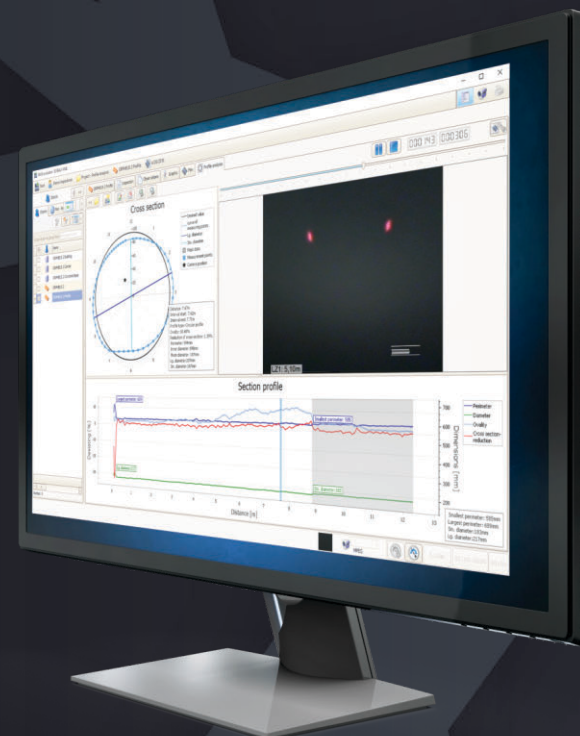
SCAN WHILE RETRACTING: As you retract your camera system, the camera head rotates (300°/second) while using laser points to create a detailed profile.

GENERATE REPORTS: IKAS Evolution processes the data and generates clear diagrams and PDF reports.

ANALYZE NOW OR LATER: Review the data in the inspection vehicle or back at your desk, whether verifying a new pipe or assessing an old one for repair.

TAKE WHAT YOU NEED: Mask irrelevant features for a clear picture. Get key stats like min/max values, ovality, and diameter deviations.

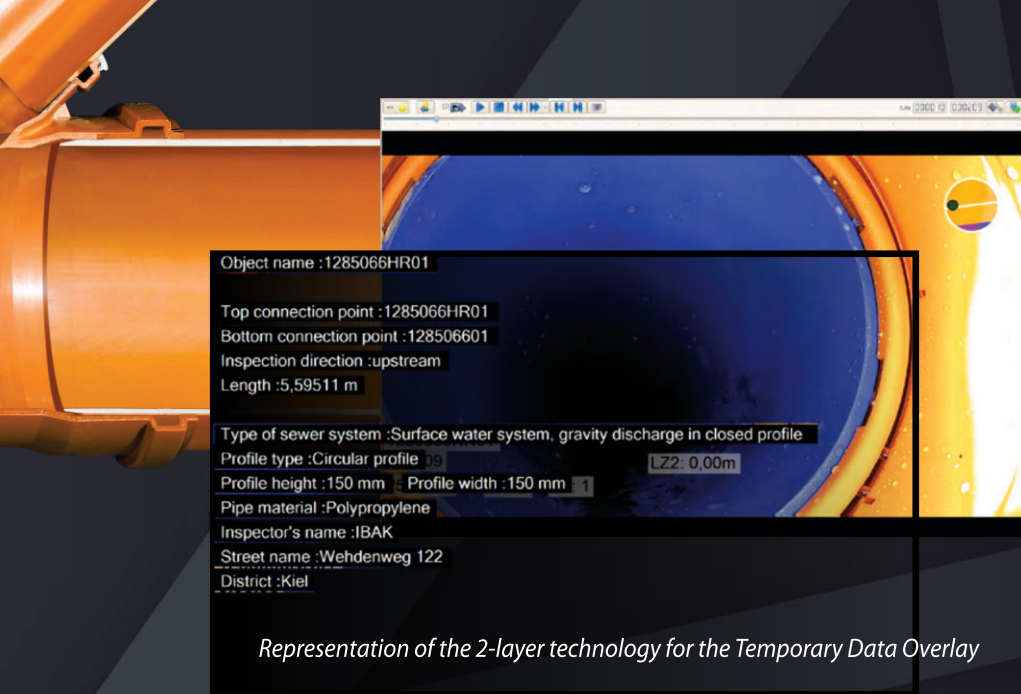
EASY TO SHARE: Transfer data to clients for interactive via the free IKAS Evolution Viewer.



Cross Section & Section Profile Views



ORPHEUS® HD



TEMPORARY DATA OVERLAY

Update master data, make station adjustments, and revise entries after recording seamlessly without compromising the original footage. With the data separated from the video itself, changes can be made up until the final delivery to the client. During the inspection, your live data will still be displayed on the vehicle's preview monitor. With this feature, you can import external inspection footage into your IKAS Evolution project with no data. From there you can analyze the inspection, add your own temporary data overlay, and have a deliverable ready to present. **Only available with IKAS Evolution bundles.**



IKAS NETWORK VIEWER

Take your inspection data into the office and make it available to anybody with connection to your network in two easy steps. Data updates in real-time so no one gets left behind! **Only available with IKAS Evolution bundles.**



IKAS RECORDER: Lightweight, secure inspection software designed to capture both HD and SD video while annotating observations directly on the inspection footage. Optimized for IBAK camera systems, and included with every IBAK inspection system purchase. Convenient, user-friendly, and easy to learn.



IKAS MINI: Finding the middle-ground between basic recordings and entry-level inspections. Store more data about your object and gain deeper insights with more comprehensive reporting than IKAS Recorder. Simplified operations with a user-friendly interface. Take a step towards the full potential of your inspection system with IKAS Mini.

INCLUDED WITH IKAS MINI: Project Management, Sewer Database, Video Overlay, WRC Condition Codes, Inspection Video Player, All IKAS Recorder functions.

*IKAS Recorder and IKAS Mini **do not** include IKAS Evolution modules. IKAS Recorder and IKAS Mini are tailored for entry-level inspections.*

BUILT TO GET THE JOB DONE

Our standard conversions are designed and hand-built with ample space to work, plenty of storage, and an interior that's easy to clean. Powered canopies, cold-weather packages, bathrooms, and special power systems are just a few popular features that we can add. We are always ready to design and build the perfect pipeline inspection or rehabilitation vehicle that works best for you and your team!



**STANDARD
BOX TRUCK**

DURABLE MATERIALS

We understand the difficult conditions your team works in. We choose materials that repel water, reduce scratches, cleans easily, and resists corrosion. These materials include FRP (Fiberglass-Reinforced Plywood), aluminum and stainless steel. We use edge protection on all cabinetry to protect your investment and keeping it looking good for years to come.



UTV/ATV



TRAILER



REMOTE DEPLOYMENT BOX



CARGO VAN

TOP OF THE LINE FEATURES

RapidView converts quality vehicles, trailers and UTVs for deploying equipment safely and effectively. Our conversions are hand-built with superior craftsmanship and durability with a focus on user-friendly interiors. Each design is created to meet the customer's individual specifications. We convert every major vehicle brand and model. With decades of experience, we understand how important the little things are when you are working remotely. Call your RapidView representative to discuss custom options.

1 DIRECT ACCESS

We design our truck builds to have access to the generator and your computer for easy updates and maintenance.

2 SAFETY

Reverse cameras, strobe lights, and communication devices come standard in every conversion to enhance crew safety in the field.

3 CABLE DRUM RACKS

We make a variety of racks to mount cable drums and store equipment. They all feature aluminum drawers with ultra-heavy duty sliders and T-locks.

4 OFFICE AREA

We include a spacious office with ample storage in our conversions. Equipped with a computer, controller, and multiple monitors.

5 STORAGE CABINETS

Reinforced Fiberglass cabinets with handy stay-open hinges and edge protection are perfect for storing tools and camera components.

6 HAND-BUILT TOOLBOXES

Our hand-built toolboxes are much more rugged than consumer boxes. With heavy-duty slides and thick aluminum plate construction, you can store heavy wheels and weights without worry!



SERVICE YOU CAN RELY ON

RapidView and its dealers are committed to providing customers with the best equipment and service in the industry. We understand that time lost due to repairs or poor training is detrimental to your productivity and bottom line. We offer a variety of completely free training programs to all of our customers to provide the knowledge and tools they need. We repair equipment in a fast and timely manner to ensure you get back up and running with minimal downtime. We make sure to keep millions of dollars worth of spare parts in stock. We also have certified service centers all throughout the US and Canada to guarantee you have support nearby when needed. Choose the company that will provide you with the service you can count on!



CERTIFIED SERVICE CENTERS

All repairs are done in the United States or Canada. Nothing ever needs to be sent over to Germany.



FAST REPAIR TIMES

We are dedicated to getting you back up and running quickly with repair time goals of 48-72 hours.



GUARANTEED SPARE PARTS

We stock millions of dollars worth of spare parts at our headquarters in Indiana and partner service centers throughout the country.



FREE TRAINING PROGRAMS

We offer free hands-on training throughout the year, plus free phone support during business hours. We also host SeptemberFest - a free biennial training and customer appreciation event.

Check out our YouTube page for videos of tech tips, reterms, equipment in action, and more! Scan the QR code below for a direct link.

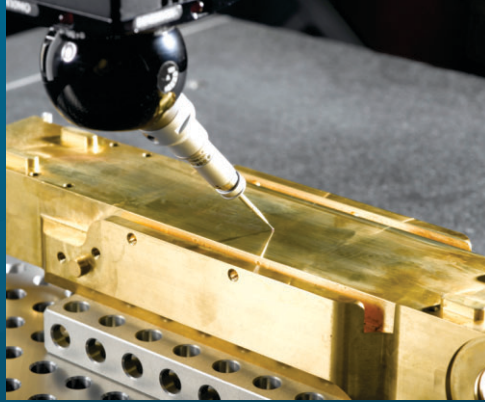
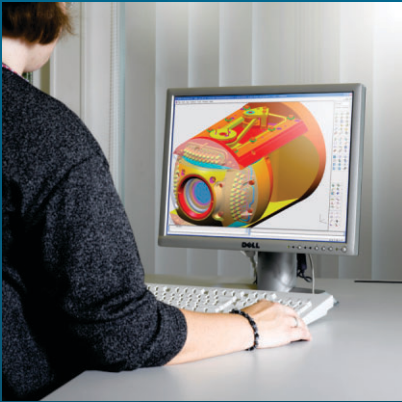


IBAK products are manufactured to ISO 9001:2015 and ISO 14001:2015 standards.

Our equipment is quality checked multiple times throughout the manufacturing process and prior to shipment.

Over 20% of IBAK's personnel is dedicated to R&D, resulting in almost all of the major advancements in the industry.

RapidView provides a full 1-year warranty on all new IBAK equipment.



HIGH QUALITY & RELIABLE

Price is a huge factor, but it's not the only thing you need to consider when choosing your inspection equipment. Cheap equipment that breaks down often or doesn't properly work to begin with isn't a bargain, it is a drain on your time and resources. What you really need is equipment that is going to last, is reliable, and is going to perform to your requirements. IBAK designs and manufactures the components that go into our systems so we don't have to rely on off-the-shelf consumer products that may be discontinued down the road. We can guarantee high quality, reliable equipment that will keep you productive well into the future.

"It's obvious that the service team cares about the customer and enjoy their jobs. You should be proud of them."

-Contractor

"This is the best equipment we have ever purchased!"

-Contractor

"We have tried almost every brand of inspection equipment over the years. RapidView IBAK equipment is different. It works."

-Contractor

**Quality
makes the
DIFFERENCE**



1828 W. OLSON ROAD, ROCHESTER, IN

800-656-4225

WWW.RAPIDVIEW.COM