

WÖHLER

The Measure of Technology



NEW

CLEAR VIEW, WHEN SPACE IS TIGHT.

Wöhler VIS 250

Video inspection, position indicator and locator

1" diameter
MINIATURE
COLOR CAMERA-
HEAD

HEAD
COLOR CAMERA-
MINIATURE



Made in
Germany

Wöhler VIS 250

Intelligent camera head guides and tracks

Wöhler's innovative VIS 250 service camera enables you to easily analyze damage in pipes of Ø 40 mm and larger – and no power outlet required. Compact by design and powered by a rechargeable battery, this complete camera set is supplied in a plastic case. The camera head features a powerful, integrated light to allow you to precisely analyze damage in waste water pipes (at least Ø 40 mm) and inspect downpipes as well as flue gas lines. Absolutely essential to analyze damage quickly!

In addition to competently analyzing hidden defects in all types of buildings, the Wöhler VIS 250 provides you with transparent on-the-spot damage diagnostics.

Thanks to its user-friendly handling and instant start-up characteristics, you not only ensure your customers are satisfied but you can also feel relaxed about meeting the challenges ahead. The integrated video memory allows you to fully document your inspection work.

See, save, send

The camera saves a video of the voyage of the camera head through the pipe. It passes even several 87° bows without problem. With a simple touch of a button a photo of a damaged spot can be made and stored.

We have brought the localization of the damage to perfection so that it is easy to estimate the cost for the repair. The distance to the camera head is indicated in the display as well as the position. This

helps very much in wide nets of ducts.

The display always shows where the top and the bottom of the duct are. The user also sees the exact angular momentum in which the camera head is pushed upwards or downwards. With the new Wöhler L 200 Locator it is even possible and economic to locate the camera head via radio.



ROBUST
HOUSING



1" diameter
MINIATURE
COLOR CAMERA-
HEAD



87°
DN 40



VIDEO
FUNCTION



PHOTO
FUNCTION



INTEGRATED LOCATOR
TRANSMITTER



POWERFUL
RECHARGEABLE BATTERY
UP TO 4h MOBILITY

- **Ideal for analyzing household waste water pipes of Ø 40 mm and larger**
- **Flexible – the camera easily takes even several bends in its stride**
- **Position of waterproof camera head indicated in the display**
- **Integrated locator transmitter precisely locates damage**
- **Up to 4 hours flexibility – storage space for 2 NiMH rechargeable batteries**
- **20 m FRP push rod**
- **Compact and safely stored for transport and mobility in a plastic case**



Robust plastic case

The light-weight plastic case not only protects the camera, monitor and accessories, it is also easy to carry

Position indicator

Ensures the user knows where top and bottom are in the pipe at all times

Battery status

Indicates battery charge level

Digital meter counter

The length of unwound cable is sensed electronically and displayed for pinpoint positioning

Color Monitor

High-definition, 7" TFT wide-screen color monitor can be tilted and withdrawn up to 2 m from the case

Control panel

Practical design features user-friendly menu guidance and intuitive camera movement control

Color camera head Ø 26 mm

Integrated locator transmitter locates damage precisely

Push rod

The FRP rod can be extended up to 20 m

Card slot

Save your videos directly to the 2 GB SD card

USB port

Connects the camera with your PC

Video-output

View your videos on an external monitor

2 powerful rechargeable batteries

Space to store 2 rechargeable NiMH batteries (12 V) - each with a rechargeable, operating battery life of up to 2 hours - the main battery is charged in the case

Huge Range of Applications



The robust color camera head is waterproof to 3 bar. With a diameter of just 26 mm it easily negotiates 87° bends in pipes of Ø 40 mm and larger.



The actual meter count and the position of the head are displayed in the monitor. The Wöhler L 200 Locator makes it possible to locate the camera.



The service camera is an essential partner in a wide range of applications including the analysis of flue gas installations.



Wöhler's new camera system is both compact and safely stored in a plastic case for transport and mobility.

Wöhler L 200 Locator

Penetrating views through concrete and asphalt

Inspecting pipes under the ground, in ceilings and walls is daily routine for specialist tradesmen and women. And after the inspection, the next task is to locate the position of damage accurately to be able to offer and carry out the necessary repair or cleaning work with precision. With the Wöhler L 200 Locator that is now all just child's play. It precisely detects radio signals transmitted by the flexibly positionable camera head.

Skilled tradesmen and women and their customers are able to obtain considerable time and cost savings by utilizing video inspections to visualize leaks and document damaged or soiled sections of pipework. The Wöhler L 200 Locator also locates the radio signals transmitted by the camera head of the Wöhler VIS 250 / 200 systems. Damage is displayed precisely in a clear-cut graphic on the display of the Locator to ensure it is discovered rapidly and marked.

Insights keeping you in the picture

This is how the Wöhler L 200 makes locating simple: The Locator attaches to a telescopic pole. Guided close to the ground, along walls or below the ceiling, it locates the very long radio waves transmitted by the camera head. Particularly ideal: The user is guided by the bright color display throughout the locating process – cross-hairs are displayed on a horizontal grid system. In addition, an acoustic signal is emitted and made

audible via a loudspeaker or headphones. The cross-hairs and the strength of the signal indicate the direction and distance to the located point. Once the section of pipe to be repaired or cleaned has been found, it can be marked straight away. For this purpose, a holder is provided to affix a piece of chalk to the end of the Locator.

- **Locates radio signals transmitted by the camera head – rapidly pinpoints damage**
- **Easy to handle - user guided via display throughout the locating process**
- **Bright, easy-to-read color display**
- **Telescopic pole - easily track down damage anywhere**
- **Chalk holder - for chalk to mark the position where damage is found**



Extensive Range of Functions



Documentation / Position Indicator

The „Save function“ (Wöhler VIS 250) makes it possible to save and view what you see at the push of a button.

The integrated position indicator (Wöhler VIS 250) ensures you keep your sense of orientation in the pipe.



Bright illumination

Thanks to the excellent lighting system of the color camera head, the camera supplies razor sharp images of even the darkest corners of the section under inspection.



Flexible

The tiltable and removable TFT wide-screen color monitor provides brilliant images, which it is possible to document via video memory on the SD card, a laptop or video recorder.



Integrated locator transmitter

The camera head of the Wöhler VIS 250 / 200 is equipped with a transmitter as standard – that means the camera head can easily be located by the new Wöhler L 200 Locator.

Wide Range of Applications

Analyze damage and inspect:

- Waste water pipes of Ø 40 mm and larger
- Ventilation lines of Ø 40 mm and larger
- Inspect hollow spaces; e.g., in front-wall installations
- Flue gas lines up to approx. Ø 125 mm

Functionality

- Waterproof, light-sensitive camera head with a diameter of just 26 mm easily takes bends its stride
- Store video footage on a 2 GB SD card (Wöhler VIS 250)
- Digital Indication of the camera head
- Electronic metering displayed on monitor
- Fully equipped mobile solution in a robust, plastic case
- Does not require main power supply
- Bright TFT color monitor for razor-sharp images
- Tilttable and removable monitor
- Integrated video output for documentation purposes
- Battery operating time: 2 x 120 min. with 2 rechargeable batteries (optional)
- Data exchange via mini USB cable

Locator (optional)

- Transmitter integrated in camera head makes it possible to precisely locate the camera head
- Facilitates targeted repairs to damaged pipelines
- Telescopic holder makes it possible to locate damage under floors or in ceilings
- Chalk holder with lithographic chalk ensures it is possible to mark located damage immediately
- Powerful rechargeable battery

Documentation

Simply record and store photos and videos on a 2 GB SD card (Wöhler VIS 250) for documentation and archiving purposes for you and your customers

Technical Data

Monitor

Dimensions housing	176 x 114 x 32 mm
TFT-display	7" / 16:9 format
Video out	FBAS signal
Weight	400 g

Power supply

Space for 2 rechargeable batteries, each 12 V or via power pack

Battery operating time

Max. 2 rechargeable batteries, each 120 mins. = 4 h (battery status in display)

Miniature camera head, color Ø 26 mm

Type	1/3" COLOR CMOS
Resolution	420 lines
Pixels	768 x 576 (PAL), 656 x 492 (NTSC)
Light sensitivity	0,5 Lux
Lens	f = 2.3 mm, F = 2.5
Viewing angle	115°
Light source	12 white LEDs
Degree of protection	Waterproof to IP 68
Dimensions	Ø 26 mm x 38 mm
Weight	240 g
Operation temperature	0...40 °C, RH 95 % MAX
Storage temperature	-20...50 °C, RH 95 % MAX
Transmitter frequency	8.9 kHz

Push rod

Length	20 m
Diameter	6 mm

Distance measurement

electronic meter counter

Plastic case

Dimensions	51 x 43 x 17 cm (L x W x H)
Weight	7 kg

Locator receiver

Display	Graphic visualization of transmitted position
Output impedance	
Headphones	32 Ohm
Power supply	3.7 V Li-Ion rechargeable battery
Operating temperature	0...40 °C
Storage temperature	-10 °C...40 °C
Weight	605 g
Dimensions	32 x 14 x 7 cm (L x W x H)

Memory (Wöhler VIS 250)

Recording	2 GB SD card (2,5 h recording capacity)
Interface	Mini USB port

Sets and Accessories

Qty	Sets Wöhler VIS 200	P/N
	Wöhler VIS 200 Service Camera for visual inspection of water pipes, flues and ventilation lines from 40 - 150 mm Ø Comes with: Wöhler TFT monitor 7" with 2 m cable, digital meter counter, Wöhler camera head Ø 26 mm, 20 m push rod 6 mm, Anti-Slide-Mat, 1 NiMH battery and charger, complete system in a plastic case	6260 J

Qty	Sets Wöhler VIS 250	P/N
	Wöhler VIS 250 Service Camera for visual inspection of water pipes, flues and ventilation lines from 40 - 150 mm Ø Comes with: Wöhler TFT monitor 7" with 2 m cable, 2GB SD card for recording of pictures and videos, USB cable, digital meter counter, Wöhler camera head Ø 26 mm, 20 m push rod 6 mm, Anti-Slide-Mat, 1 NiMH battery and charger, complete system in a plastic case	6250 J

Qty	Guidance Systems	P/N
	Wöhler VIS Guidance Set 70 for miniature camera head. Guidance sleeve with protection cage, centering star for rod fixture	3883 I
	Guidance Sleeve with protection cage for miniature camera head Ø 26 mm improves ability to navigate through pipe bends, protects the camera head and the objective	3847 J
	Wöhler Camera Roller Guide suitable for camera heads and rods	3681 J
	Guidance Ball for flex part of camera push rod improves ability to navigate through pipe bends	3634 J

Qty	Accessories / Other products	P/N
	Wöhler L 200 Locator (Receiver)	7430 J
	Car charger Wöhler VIS 2xx/3xx 18 V	3169 J

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