

WÖHLER

The Measure of Technology



NEW

UNIQUELY CLEAN VIEW

Wöhler VIS 350

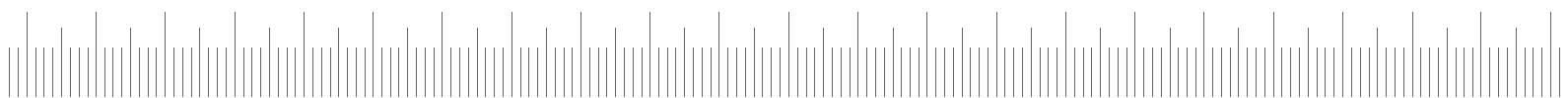
Video inspection made easy in one compact kit

**360°
180°**
PAN AND TILTABLE
COLOR CAMERA
HEAD

HEAD
COLOR CAMERA
PAN AND TILTABLE



Made in
Germany



Wöhler VIS 350

Intelligent camera head guides and tracks

Video inspection in a case: With the new Wöhler VIS 350 camera system, you not only have everything you need to inspect 4 to 8" sewer pipes, waste water pipes, flue gas and ventilation lines as well as industrial systems – you can also precisely locate the damage and accurately document the results of the inspection.

Wöhler's new camera system is both compact and safely housed in a plastic case for transport and mobility. The system consists of a 30m push rod cable with reel, a color camera head with a choice of colour

26mm diameter forward view, or colour 40mm Pan Tilt camera head and a large colour monitor to view the inspection. Then there is the typical Wöhler control panel that ensures easy control of the camera head: the 40mm camera head camera pans 360°, tilts 180° and offers best-possible lighting to carry out an all-round inspection of the inside of the

pipe. Particularly practical: After panning and tilting, the home function automatically aligns the camera angle to straight ahead with a simple push of a button.

View, save and transmit
The camera can record video of what it sees as it travels along the line run. Even several tight bends along the line are no hurdle. When damage is discovered, one quick press of a button is all that is required to „shoot“ and save a photo.

To be able to assess and specifically target repair work, we at Wöhler have

perfected the technique of precisely locating damage. The actual meter count and the position of the head are displayed in the monitor. That, for example, is a huge help when dealing with extensive networks of pipelines. The top and bottom of the pipe are displayed on the monitor at all times and at how many degrees the camera is being guided up or down. Even low-cost, simple wireless location detection is available in the form of the new Wöhler L 200 Locator.



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- Video inspection system proven over many years – now developed even further
 - Position of camera head indicated in the display
 - Keep your sense of orientation with home function – camera aligns itself automatically
 - 4 hours flexibility – 2 rechargeable batteries for lasting mobility
 - Built-in location transmitter facilitates wireless location detection
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Robust plastic case

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

Position and angle display

Ensures the user knows where top and bottom are in the pipe at all times and at how many degrees the camera is being guided up or down

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

Operating panel

Practical design with simple menu guidance and intuitive camera movement control

Pan&Tilt Ø 40 mm color camera head

Tilts 180° from left to right and pans through 360°

Push rod

The FRP rod can be extended up to 30m

Card slot

Save your video directly to a 2GB SD card or maximum 32GB

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 30m push rod and the pan&tilt or 26mm straight view camera head color camera head make sure nothing in the house supply line remains hidden from your view.



The Wöhler VIS 350 precisely locates radio waves transmitted by the camera head through concrete and asphalt to save a lot of time and further building damage.



The 360° pan and 180° tiltable color camera head easily negotiates 90° bends.



The actual meter count and the position of the head are displayed in the monitor. The Wöhler L200 8.9Khz Locator makes it possible to locate the camera head wirelessly.

Wöhler L 200 8.9khz Camera Head Locator

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 detects precisely radio signals transmitted by the Wöhler pan&tiltable 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 350. 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

The save function (Wöhler VIS 350) makes it possible to save and view a video or still image of what you see at the push of a button. Transfer to PC: Per USB or SD card.



Bright illumination

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



Position and angle display

The Home button (Wöhler VIS 350) realigns the camera head to its initial position. The position and angle display indicate top and bottom of the pipe on the monitor at all times and at how many degrees the camera is being guided up or down.



Integrated locator transmitter

The camera head of the Wöhler VIS 350 / 300 is equipped with a 8.9khz 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 lines of Ø 70 mm and larger
- House connections up to Ø 200 mm
- Flue gas systems of Ø 60 mm and larger
- Ventilation lines of ventilation systems
- False ceilings, hollow spaces, shafts

Functionality

- Optics pan 360° and tilt 180° – facilitate maximum movement radius and ensure even the smallest damage does not remain hidden from your view or the kit can be supplied without pan & tilt camera head and only the 26mm forward view
- Store video footage and photos on a 2 GB SD card (Wöhler VIS 350)
- Both camera heads have the integrated transmitter harmonizes location detection by the Wöhler L 200 Locator
- Digital position and angle of the camera head displayed on the monitor
- Home function aligns the camera head to a straight position – display parallel to the ground above
- Brightly illuminating color camera head, 60 mm in length and 40 mm in diameter, easily negotiates tight bends
- Electronic meter counter with a resolution of 0.04 m displayed on the monitor
- Bright TFT color monitor (tiltable and removable) supplies razor sharp images
- Battery operating time: 2 x 120 min. with 2 rechargeable batteries (optional)

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
- Long-lasting LI-ION rechargeable battery

Documentation

Simply record and store photos and videos on a 2 GB SD card (Wöhler VIS 350) 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)
Pan&tilt Ø 40 mm color camera head or 26mm forward view	
Type	1/3" COLOR CMOS
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 67
Dimensions	Ø 40 mm x 60 mm
Operating temperature	0...40 °C, RH 95 % MAX
Storage temperature	-20...50 °C, RH 95 % MAX
Locator transmitter	
Transmission frequency	8,9 kHz
Push rod	
Length	30 m
Diameter	6,5 mm
Plastic case	
Dimensions	51 x 43 x 17 cm (L x W x H)
Weight	8.2 kg
Distance measurement	
Wöhler VIS 350 / VIS 300	Electronic meter counter
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 350)	
Recording	2 GB SD card (2.5 h recording capacity)
Interface	Mini USB port

Sets and Accessories

Qty	Wöhler VIS 350 26mm Kit	P/N
	<p>Wöhler VIS 350 26mm Forward View Camera Kit 30 m detachable head for visual inspection of sewer/ water pipes, flues and ventilation lines from 60 - 250 mm Ø</p> <p>Comes with:</p> <ul style="list-style-type: none"> - Wöhler Pan & Tilt camera head Ø 40 mm V2 - Wöhler TFT monitor 7" with 2 m cable - 2 GB SD card for recording of pictures and video - USB cable - Digital meter counter - 30 m push rod 6.5 mm - Anti-Slide-Mat - 2 NiMH batteries and charger - Complete system in a plastic case 	6355

Qty	Wöhler VIS 350 40mm Pan / Tilt	P/N
	<p>Wöhler VIS 350 40mm Forward View Camera Kit 30 m detachable head for visual inspection of sewer / water pipes, flues and ventilation lines from 60 - 250 mm Ø</p> <p>Comes with:</p> <ul style="list-style-type: none"> - Wöhler Pan & Tilt camera head Ø 40 mm V2 - Wöhler TFT monitor 7" with 2 m cable - 2 GB SD card for recording of pictures and videos - USB cable - Digital meter counter - 30 m push rod 6.5 mm - 5 replacement plastic domes - Anti-Slide-Mat - 2 NiMH batteries and charger - Complete system in a plastic case 	6351

Qty	Accessories	P/N
	Wöhler L 200 Locator (Receiver)	7430
	Glass Dome for Wöhler VIS 3xx	3674
	Replacement Plastic Domes (10 pcs.) for Wöhler VIS 3xx	3675
	Protection Sleeve for Wöhler VIS 3xx with cut-out	2641
	Car charger Wöhler VIS 2xx / VIS 3xx 18V	3169
	Camera Roller Guide suitable for camera heads and rods	3681
	Wöhler additional glare protection for VIS 2xx / 3xx monitors	6814

Qty	Wöhler VIS 350 26mm Camera Head	P/N
	<p>Camera type: 1/3" CMOS Resolution: Horizontal 420 TV lines Sensitivity to light : Colour: 0.5 lux Lens: f=2.3mm, F=1.2 Image capturing angle: 120 degrees Light sources: 12 white LEDs Protection: Waterproof according to IP 68 up to 3 bar Operating range: 0-40C Built in 8.9Khz Sonde Size: 26mm x 38mm Weight: 60g</p>	8920



Contact us at:
 Inline Systems
 Unit 1, 8 Prosperity Parade, Warriewood NSW 2102
 info@inline.com.au, Ph (02) 9999 2696
 www.inline.com.au