



UNIQUELY CLEAR VIEW.

Wohler VIS 350

VIDEO INSPECTION, POSITION INDICATOR,
HOME FUNCTION AND LOCATOR

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

HEVD
СОЗДАН СЪСЪРВ

The Measure of Technology



Made in
Germany

WOHLER VIS 350

Intelligent camera head guides and tracks

Video inspection in a case: With the new Wohler VIS 350 camera system, you not only have everything you need to inspect 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.

Wohler's new camera system is both compact and safely housed in a plastic case for transport and mobility. The system consists of a 100 ft. push rod cable with reel, a color camera head with a diameter of 1 1/2" and a large color monitor. Then there is the typical Wohler control panel that ensures easy control of the camera head: The camera pans 360°, tilts 180° and offers the 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. The camera can record video of what it sees as it travels along the line run. Even several tight 90° 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 Wohler 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 wire-less location detection is available in the form of the new Wohler L 200 Locator.

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- **Video inspection system proven over many years – now with CCS picture quality**
 - **Position of camera head indicated in the display**
 - **Keep your sense of orientation with home function – camera aligns itself automatically**
 - **4 hour 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 6 ft. from the case

Operating panel

Practical design with simple menu guidance and intuitive camera movement control

Pan & Tilt 1 1/2" dia color camera head

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

Push rod

The FRP rod can be extended up to 100 ft.

Card slot

Save your videos directly to the 4 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 100 ft. push rod and the pan&tilt color camera head make sure nothing in the house supply line remains hidden from your view.



The Wohler 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 Wohler L 200 Locator makes it possible to locate the camera head wirelessly.

WOHLER 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 the damage accurately to be able to offer and carry out the necessary repair or cleaning work with precision. With the Wohler 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 save considerable time and cost savings by utilizing video inspections to visualize leaks and document damaged or soiled sections of pipework. The Wohler L 200 Locator also locates the radio signals transmitted by the camera head of the Wohler 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 Wohler 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 easily. 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" (Wohler 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 head, the camera supplies razor sharp images of even the darkest corners of the section under inspection.

POSITION AND ANGLE DISPLAY



The Home button (Wohler 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 Wohler VIS 350 is equipped with a transmitter as standard – that means the camera head can easily be located by the new Wohler L 200 Locator.

WIDE RANGE OF APPLICATIONS

Analyze damage and inspect:

- Waste water lines of 2" dia and larger
- House connections up to 8" dia
- Flue gas systems of 2" dia 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
- Store video footage and photos on a 4 GB SD card (Wohler VIS 350)
- Camera head with integrated transmitter facilitates location detection by the Wohler 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, 2" in length and 1 1/2" in diameter, easily negotiates tight bends
- Electronic meter counter with a resolution of 0.10 ft. 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)
- Fully equipped mobile solution in a robust plastic case

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 4 GB SD card (Wohler VIS 350) for documentation and archiving purposes for you and your customers.

TECHNICAL DATA

Monitor

Dimensions housing	7" x 4.5" x 1.3"
TFT-Display	7" / 16:9 format
Video-Out	FBAS signal
Weight	1 lbs
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

Type	1/3" COLOR CMOS
Pixels	656 x 492 (NTSC)
Light sensitivity	0.5 Lux
Lens	f = 0.09", F = 2.5
Viewing angle	115°
Light source	12 white LEDs
Degree of protection	Waterproof to IP 67
Dimensions	1 1/2" dia x 2"
Operating temperature	32...104 °F, RH 95 % MAX
Storage temperature	-4...122 °F, RH 95 % MAX

Locator transmitter

Transmission frequency	8.9 kHz
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Push rod

Length	100 ft.
Diameter	0.26"

Plastic case

Dimensions	20" x 17" x 7" (l x w x h)
Weight	18 lbs

Distance measurement

Wohler VIS 350 / VIS 300	Electronic meter counter
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Locator receiver

Display	Graphic visualization of transmitted position
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Output impedance

Headphones	32 Ohm
Power supply	12 V MiMH battery (rechargeable)
Operating temperature	32...104 °F
Storage temperature	14 °F...104 °F
Weight	1.3 lbs
Dimensions	13" x 6" x 3" cm (l x w x h)

Memory (Wohler VIS 350)

Recording	4 GB SD card (2.5 h recording capacity)
Interface	Mini USB port

SETS AND ACCESSORIES

Sets Wohler VIS 350	Qty	Accessories	Qty
Wohler VIS 350 Service Camera Video inspection for sewer and water pipes, drain and flue lines, ductwork, etc. Comes with: Wohler VIS 350 NTSC Service Camera with digital meter counter in heavy duty carrying case, video recording function, attached pan and tilt color camera head 1.5" dia V2 NTSC, 4 GB SD card and mini USB cable, 7" TFT color monitor, 6 ft. connection cable (removable monitor), 100 ft. push rod 0.26" dia, 5 plastic domes, 1 anti-slide mat, 2 NiMH batteries with charger		Camera Roller Guide suitable for camera heads and rods P/N 3681	
P/N 7354		Wohler VIS Guidance Set 100 for Wohler VIS 3xx with protection sleeve, Roller guide and centering star P/N 3884	
Wohler VIS 350 Service Camera Video inspection for sewer and water pipes, drain and flue lines, ductwork, etc. Comes with: Wohler VIS 350 NTSC Service Camera with digital meter counter in heavy duty carrying case, video recording function, detachable pan and tilt color camera head 1.5" dia V2 NTSC, 4 GB SD card and mini USB cable, 7" TFT color monitor, 6 ft. connection cable (removable monitor), 100 ft. push rod 0.26" dia, 5 plastic domes, 1 anti-slide mat, 2 NiMH batteries with charger		Wohler VIS Centering Brush for Wohler VIS 2000 ^{PRO} /VIS 400/VIS 2xx/VIS 3xx 8" dia with 6 brushes, with thread, centers the GRP camera rod, to guide the camerad head P/N 3854	
P/N 6352		Wohler VIS Centering Brush for Wohler VIS 2000 ^{PRO} /VIS 400/VIS 2xx/VIS 3xx P/N 3850	
Wohler VIS 350PLUS Service Camera Video inspection for sewer and water pipes, drain and flue lines, ductwork, etc Comes with: Wohler VIS 350 NTSC Service Camera with digital meter counter in heavy duty carrying case, video recording function, detachable pan&tilt color camera head 1.5" dia V2 NTSC, detachable miniature color camera head 1" dia incl. guidance sleeve, guidance ball for push rod, 4 GB SD card and mini USB cable, 7" TFT color monitor, 6 ft. connection cable (removable monitor), 100 ft. push rod 0.26" dia, 5 plastic domes, 1 anti-slide mat, 2 NiMH batteries with charger		Wohler Protection Sleeve for camera head 1.5" dia P/N 3682	
P/N 8927		Wohler Protection Sleeve for Wohler VIS 3xx with cut-out P/N 2641	
Wohler VIS 350 Service Camera with Wohler L 200 Locator Video inspection for sewer and water pipes, drain and flue lines, ductwork, etc. Comes with: Wohler VIS 350 NTSC Service Camera with digital meter counter in heavy duty carrying case, video recording function, detachable pan and tilt color camera head 1.5" dia V2 NTSC, detachable miniature color camera head 1" dia incl. guidance sleeve, guidance ball for push rod, 4 GB SD card and mini USB cable, 7" TFT color monitor, 6 ft connection cable (removable monitor), 100 ft push rod 6.5 mm dia, 5 plastic domes, 1 anti-slide mat, 2 NiMH batteries with charger, Wohler L 200 Locator (Receiver)		Re-lining adapter set for Wohler VIS 2xx/VIS 3xx re-lining adapter, centering star and 3 x stabilisation sleeve P/N 6889	
P/N 8931		Glass Dome for Wohler VIS 3xx P/N 3674	
		Replacement Plastic Domes (10 pcs.) for Wohler VIS 3xx P/N 3675	
		Sunshade for Wohler VIS 2xx and VIS 3xx for 7" TFT monitor P/N 6814	
		Power Supply for Wohler VIS 3xx/VIS 2xx 18V, 1,5A, 100-240V, 50 Hz, 2.1 mm female plug, center plus, charge time 3 hours for all countries P/N 3789	
		Wohler Battery 12 V NiMh 2600 mAh for Wohler VIS 2xx/VIS 3xx operation time: 120 min, warranty: 12 months P/N 4715	
		Car charger Wohler VIS 2xx / VIS 3xx 18 V P/N 3169	
Accessories	Qty		
Wohler L 200 Locator (Receiver)			
P/N 7430			
Wohler VIS Cleaning Set with plastic case, for approx. 50 applications 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 6.76 ounce lubricant, plastic case			
P/N 4725			
Wohler VIS Cleaning Set Refill for approx. 50 applications 1 liter disinfection spray, 50 cleaning tissues, 100 disposable gloves size XL (powder free), 6.76 ounce lubricant, in plastic bag			
P/N 4726			

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