

The R-CAM 1000/1300 TLE is a portable color video inspection system for water wells and boreholes. Two wide-angle cameras in a single stainless steel housing give operator-selectable down-hole and side views, with low light level CMOS sensors that resolve images down to 1 LUX. The TLE Level Wind winch adds gear driven automatic spooling and a 100 PPR optical encoder for accurate depth, while a removable boom arm and handle simplify transport and tripod setups.

FEATURES

- Dual down-view and side-view cameras
- Low light CMOS sensors down to 1 LUX
- Automatic gear driven level wind
- 100 PPR high resolution optical encoder
- 9 in LCD monitor with embedded DVR
- Removable boom arm and winch handle
- Cable head pressure rated to 5,000 PSI
- 1,000 ft or 1,300 ft Kevlar-reinforced cable
- 12 VDC AGM battery, 4 - 5 hours run time
- Variable speed on-board motor controller
- Stainless steel camera housing, 500 PSI



OPERATION

Reel control and power cables carry camera control, encoder data and motor power to the winch. With the camera near the top of the well, the counter is zeroed and the survey records to USB from the wireless keyboard.

APPLICATIONS

- Water well condition assessment
- Borehole and monitoring well surveys
- Well screen, casing and liner inspection
- Locating obstructions and lost equipment
- Pre- and post-rehabilitation documentation
- Pump and drop pipe installation checks

Water clarity governs image quality; turbid wells may need flushing or flocculation before a survey.



CALL GEOTECH TODAY

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Technical Specifications

Camera	Two wide-angle cameras in a single housing, operator-selectable down-hole and side view; both views rotate under forward/reverse control from the control unit
Image sensors	Low light level CMOS, detects images with minimal lighting power, as low as 1 LUX
Lighting	LED down-view and side-view arrays, 5 preset intensity levels set independently for each view, approximately 5,000 hours of use
Camera housing	Stainless steel, watertight at external pressures of 500 PSI
Control unit	Portable hard carrying / storage case housing a 9 in LCD color video monitor with embedded DVR and internal memory
Recording	USB memory (flash drive) input, USB wireless keyboard input, embedded microphone, video signal output to an external video input
Depth counter	On-screen footage display driven by the encoder, resettable to 0000.00 ft
Counter	100 PPR high resolution optical encoder with dual pressure rollers
Spooling	Automatic, gear driven level wind to evenly distribute cable
Reel speed	9 rpm
Motor	12 VDC gear motor, 53 in lbs torque
Drive	On-board variable speed motor controller
Cable	1,000 ft (304.8 m) or 1,300 ft (396.24 m) single conductor armored, Kevlar-reinforced coaxial cable; minimum bend radius 4 in
Cable head	Detachable Laval quick-connect cable head, pressure rated to 5,000 PSI, with built-in strain relief
Transport	Removable boom arm and winch handle; boom arm reverses 180 degrees for storage and lifts off for tripod use
Power source	12 VDC AGM rechargeable battery pack with voltmeter and charger, approximately 4 - 5 hours of operation; emergency auxiliary power cable connects to a vehicle battery
Dimensions	40 in (101.6 cm) tall x 18 in (45.72 cm) wide x 47 in (119.38 cm) long
Weight	130 lbs (58.97 kg)
Supplied with	Camera, winch, control unit, 12 V battery and charger, control cable, power cable, auxiliary power cable, centering bands with collars, TriLight, lens shield, camera case
Optional accessories	Cable Head Repair Kit (Part# 126883)

Cable capacity depends on model: R-CAM 1000 TLE is supplied with 1,000 ft of cable, R-CAM 1300 TLE with 1,300 ft.

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