

(305m).

Colloidal Borescope

Geotech Colloidal Borescope

COLLOIDAL BORESCOPE SYSTEM INCLUDES:

- Borescope Probe fully integrated colloidal view video microscope with magneto-resistive digital compass enclosed in a protective 300 series stainless steel housing.
- Bulkhead Down Well Cable reinforced composite video underwater camera cable incorporating Kevlar longitudinal strain relief and polyurethane outer jacketing.
 Down well cable lengths are available from 100' (30m) to 1000'
- **Geotech Portable Reel** transporting and storing the down well cable and Borescope probe.
- Camera Control Unit featuring camera and lighting power supplies, serial data connection for digital compass via USB, and transmission of live down well video using a 54mm express card.
- Extension Cable connects camera control unit to the portable hand reel, used with systems that include 200 feet or more of down well cable.
- AquaLITE Software allows user to live-view water flow direction, velocity or combined graphs, and statistical summary reporting.
 AquaLITE also features fully configurable video signal quality, ground water quality, and other aquifer characteristics.
- Operation Manual detailing full instructions on how to operate the instrument.

OPTIONAL ACCESSORIES INCLUDE:

- Laptop with 54mm express card and USB ports
- Centering Device for Borescope

SPECIFICATIONS

Applications 2" (5.8cm) or larger well diameter

Maximum Operating Depth

& Submergence 1000' (305 m)

AC Power Requirements* 90-240V AC, 47 to 63 Hz. 7 Watts

Service requirement <1 amp

DC Power Requirements* 10 to 16V DC @ <1 amp

Probe Size 21.25" L x 1.75" OD (54 cm L x 4.5 cm OD)

Probe Weight 5 lbs. (2.5 kg)

Probe Housing Material 300 series stainless steel

Window Material Sapphire

Camera Control Unit Size 3.98" W x 7.89" L x 3.16" H (10 cm W x 20 cm L x 8 cm H)

Camera Control Unit Weight 2 lbs. (.9 kg)

Cable Size .375" OD (.95 cm) Customer specified length from 100'

to 1000' (30.5 m to 305 m)

Cable Jacket Material Urethane (composite cable material ROHS compliant)

Electrical Component Material Non-ROHS compliant (dispose of properly)

Operating Temperature Range 14°F -113°F (-10°C to 45°C)

Camera Field of View 2.5 mm x 2 mm

Depth of Focus .2 mm
Minimum Groundwater Velocity 0 mm/s
Maximum Groundwater Velocity 30 mm/s
Minimum Particle Size 10um

Maximum Particle Size Within camera field of view

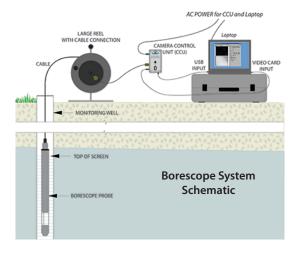
Heading Accuracy 1.0°RMS typical

Heading Resolution Output Data 0.1° Heading Hysteresis Output Data (1s) $\pm 0.3^{\circ}$

Cable Lift Capacity 426 pounds (193 kg)

Compass Resolution 1° Compass Accuracy $\pm 1^{\circ}$

*Not including laptop or PC



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