

## 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' (305m).
- **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

<b>Applications</b>	2" (5.8cm) or larger well diameter
<b>Maximum Operating Depth &amp; Submergence</b>	1000' (305 m)
<b>AC Power Requirements*</b>	90-240V AC, 47 to 63 Hz. 7 Watts Service requirement <1 amp
<b>DC Power Requirements*</b>	10 to 16V DC @ <1 amp
<b>Probe Size</b>	21.25" L x 1.75" OD (54 cm L x 4.5 cm OD)
<b>Probe Weight</b>	5 lbs. (2.5 kg)
<b>Probe Housing Material</b>	300 series stainless steel
<b>Window Material</b>	Sapphire
<b>Camera Control Unit Size</b>	3.98" W x 7.89" L x 3.16" H (10 cm W x 20 cm L x 8 cm H)
<b>Camera Control Unit Weight</b>	2 lbs. (.9 kg)
<b>Cable Size</b>	.375" OD (.95 cm) Customer specified length from 100' to 1000' (30.5 m to 305 m)
<b>Cable Jacket Material</b>	Urethane (composite cable material ROHS compliant)
<b>Electrical Component Material</b>	Non-ROHS compliant (dispose of properly)
<b>Operating Temperature Range</b>	14°F -113°F (-10°C to 45°C)
<b>Camera Field of View</b>	2.5 mm x 2 mm
<b>Depth of Focus</b>	.2 mm
<b>Minimum Groundwater Velocity</b>	0 mm/s
<b>Maximum Groundwater Velocity</b>	30 mm/s
<b>Minimum Particle Size</b>	10µm
<b>Maximum Particle Size</b>	Within camera field of view
<b>Heading Accuracy</b>	1.0°RMS typical
<b>Heading Resolution Output Data</b>	0.1°
<b>Heading Hysteresis Output Data (1s)</b>	±0.3°
<b>Cable Lift Capacity</b>	426 pounds (193 kg)
<b>Compass Resolution</b>	1°
<b>Compass Accuracy</b>	±1°

\*Not including laptop or PC

