

# GeoVISION™

## Borehole Video Systems



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## GeoVISION™ Dual-Scan Micro Video Camera GS-0013

The GeoVISION™ Dual-Scan camera is Allegheny Instruments' most advanced camera ever. It has three independently controlled banks of high intensity LED lights and the ability to rotate more than 360°. The Dual-Scan's state of the art video modules provide unparalleled video images in bores as small as 1-1/2" (4 cm) in diameter and up to 2,000 feet (600 meters) deep.

The Dual-Scan camera is actually two cameras in one. One camera continually looks down while the second camera scans the bore wall. The two cameras can be rotated from the surface using a joystick; this feature provides an uninterrupted simultaneous 360° pan of both cameras.

The Dual-Scan camera has standard NTSC resolution with an aspect ratio of 4:3. Illumination is provided by three banks of high intensity white LEDs which can be turned on or off from the surface. The Dual-Scan camera is designed for use with the Deluxe winch to pressures up to 1,000 psi.



**Specifications:**

Weight	3.5 pounds (1.59 kg)
Dimensions	27" long x 1-1/8" diameter (68.6 cm x 2.9 cm)
Standard Lens	2.45 mm Down-Looking, 2.97 mm Side-Looking
Angle of View (in air)	~150° Down-Looking, ~130° Side-Looking
Aperture	F2.0
CCD	1/3" Sony Super HAD CCD II
Video Format	NTSC
Aspect Ratio	4:3
Horizontal Resolution	550 Lines
Effective Pixels	768 Horizontal x 494 Vertical
Minimum Illumination	0.05 Lux.
Operating Temperature	-40° F ~ 122° F (-40° C~50° C)
Light Source	9-9-3 High Intensity White LEDs
Maximum Depth	2000 Feet Underwater (600 meters)
Maximum Pressure	1000 psi
Current Draw	190 mA
Window Material	Sapphire
Exposure Control	Yes – Both Cameras

**Compatibility**

<b>Products</b>	<b>Notes:</b>
<b>Winch</b>	
Deluxe	
<b>Cable Length</b>	
325 feet (100 meters)	Deluxe winch
650 feet (200 meters)	Deluxe winch
1,000 feet (300 meters)	Deluxe winch
1,650 feet (500 meters)	Deluxe winch
2,000 feet (600 meters)	Deluxe winch

**Accessories**

<b>Additional Lights</b>
Auxiliary Single Light
Auxiliary Fixed Eight Light
Auxiliary Adjustable Eight Light
<b>Camera Mounted Options</b>
Compass