

GROUNDVIEW 500 Borehole Camera and Motorised Winch System





APPLICATIONS The Groundview portable borehole video system features four interchangeable video cameras, including motorised pan-and-tilt heads, and a twin-camera dual-view head (down and side). Perfect for inspection of wells, bores, groundwater boreholes, mine shafts and even open water, you can check casing integrity, use it for lost equipment recovery, check downhole pump operation, find contaminants, verify downhole instrumentation installations, and even use them for search and rescue.

GEOSYSTEMS

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FEATURES

- Pan-and-tilt Full HD Camera
- Fully waterproof camera with water depth and temperature sensor display on the video
- Professional grade watertight connectors
- Unique data transmission protocol to transmit signal long distances via two core cable
- Shielded underwater cable pull resistance, double shielded, high-tensile, anti-corrosive, anti-wear
- Motorised forward and retract modes with variable speed control
- 500m cable length standard, custom shorter cable lengths available to save weight/cost
- Up to 7kms of cable available on special order
- Winch cable depth counter with on screen display
- Inbuilt pressure sensor in camera to measure pressure head
- All in one control module with LCD display, microphone and full keyboard, battery or mains powered
- Camera focus and LED intensity control and capture video files to USB
- Fully customisable control module that can be set to many languages

GROUNDVIEW SERIES



The Groundview series of borehole inspection systems are state of the art camera and winch packages that capture HD footage via a small pan and tilt camera. They transmit signals over very long cable runs, pushing the boundaries of drill hole inspections. Conveniently the entire series (excluding Groundview Scope) is controlled by the same control module that displays and captures footage to USB. It features a full keyboard so notes can be made on screen, and it also includes a microphone for verbal commentary. The pan-tilt camera comes in three sizes (45mm, 55mm and 65mm diameter) and there is an optional slim dualview camera. The hand winch model is robust. portable, and well suited for commercial use.

Control Box:

ABS Main Control Box, equipped with a variety of accessories, integrated control

Voltage Input: DC12V

Depth Interface: 4-pin port for connecting the depth sensor

Probe Interface: 6-pin port for camera power, video signal, camera controls
Data Interface: Record the well number and calibrate depth automatically
Data Storage: USB-A socket for removable USB drive, supports 128GB max.

Depth Return to Zero: Action before well-logging for accurately depth counts

Display: 13.3" high brightness 2K LED display, sunshade for outdoor visibility

Controls: Pan and Tilt, Auto-Pan Speed, LED Lighting, Camera Focus

Electric Cable Winch

Motorised cable winding with adjustable speed

Motor: Permanent magnet DC motor, power off self-locking

Down hole Pulley: includes depth counter, data line connects to main control box

Dimensions: 87 x 94 x 90 cm

Weight: 130kg (with 500m cable, 110kg with 300m cable)

Material: Aluminium plate









CAMERA SPECIFICATIONS

Model		Groundview 500
Camera Modu	ile	
Image Sensor		1/1.8" 2MP SONY COMS
Effect Pixel		1920(H)x1080(V)
Sensor		Water depth and temperature
PT		360° Pan/Tilt
Compressive pressure:		3-10MPa
Focal		Auto/Manual
LED		6pcs 1W White LED
Scan Mode		Line by line Scan
Electronic shutter		1/25s~1/10000s;Automatic Adjustment
Min Illumination		Color0.001Lux@F1.2
S/N Ratio		≥50dB(AGC OFF)
Day and night switch mode		Photo Detect / Video Detect / Time Detect
WDR		80dB WDR
Digital Noise Reduction		3D NR
ROI region		Support up to 4 ROI region
Lens		3.6mm 5MP lens
Video Parame	ters	
Video compression		H.265+, H.265 Main Profile, H.264 Baseline Main
Video resolution	Main stream	1920*1080P/1280*960P/1280*720P
	Sub stream	D1(704×576)/VGA(640*480)
Video Frame		1920*1080P 30fps
Video Bit rate		32KB ~8Mbps,
Smart functio	ns	
Smart Coding		Support low code rate, low latency, ROI region of
Smart Detect		Support Block Detectionχ Defocus
Smart Control		Support intelligent control alarm on, alarm off, fault
Network Parameters		
Network Interface		10M/100M adaptive Ethernet port
Network Protocol		IPv4/IPv6,802.1x,HTTPS, HTTP, TCP/IP, UDP, RTP,
Access Standard		Support the latest ONVIF2.42 / GB28181 / SDK
Number of Client Visits		Support 8 users login at the same time
APP		iPhone, iPad, Android
General Parai	meters	
Power Supply		DC 12V
Power consumption		2W (max)
Size		65mm/55mm/45mm
Weight		2-4kg
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