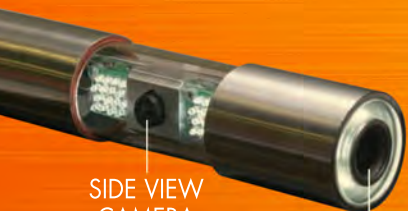


**STRATACAM™ BOREHOLE CAMERA**

COLOUR MONITOR: 178 mm (7 in.) COLOUR TFT-LCD DISPLAY WITH MONITOR HOOD FOR BRIGHT CONDITIONS.  
ON-SCREEN DIGITAL DEPTH DISPLAY: FEET OR METRES.  
POWER: PORTABLE 12 VDC GEL-CELL BATTERY WITH 120-240 VAC CHARGER.  
SIDE VIEW CAMERA: 360° CONTINUOUS ROTATION. 32 HIGH INTENSITY LED LIGHTS.  
DOWN VIEW CAMERA: 360° CONTINUOUS ROTATION. 18 HIGH INTENSITY LED LIGHTS.  
BOREHOLE DIAMETER: 63.5 mm (2.5 in.) AND LARGER, WITH FULLY ADJUSTABLE CENTRALIZER.  
50.8 mm (2 in.) AND LARGER WITH OPTIONAL SMALL DIAMETER CAMERA.  
WET CONDITIONS: WATER TIGHT TO 3.4 MPa (500 psi).  
MAXIMUM DEPTH: 305 m (1000 ft.).



SIDE VIEW CAMERA

DOWN VIEW CAMERA



HIGH INTENSITY LIGHTING  
SYNCHRONIZED DUAL CAMERA SYSTEM

0.9 m (3 ft.)  
EXTENDABLE BOOM ARM

PORTABLE CAMERA CONTROLLER  
LCD & DIGITAL DEPTH COUNTER

3 m (10 ft.)  
CONTROL CABLE FOR REMOTE VIEWING

MOTORIZED REEL

PROTECTIVE HOLSTER FOR CAMERA

12 o'clock  
raising.

CABLE UNIT  
12 VDC POWER SUPPLY WITH DIGITAL DISPLAY IN BATTERY CRADLE

DIGITAL VIDEO RECORDER

**STRATACAM™**  
BOREHOLE CAMERA

Where are the rock strata boundaries? Where is this borehole making water? Why isn't my explosives column rising? I wish I could see into this borehole!

The StrataCam™ Borehole Camera is used to clearly view and accurately record the physical location of geological strata, weak/strong boundaries, ore/waste boundaries, coal seams, top of coal, free-surface of water or ingress points, in-situ fractures, cavities, and irregularities. This information is quite valuable to a blaster who needs to modify the loading pattern.

Perform high resolution video surveys of dry or water filled boreholes with diameters as small as 50.8 mm (2 in.)\* and to a maximum depth of 300 m (1000 ft.). The StrataCam™ Borehole Camera components are watertight to external pressures of 3.4 MPa (500 psi).

When video surveying a borehole, the Operator can easily toggle the powered cable reel to raise or lower the camera's position in the borehole and adjust the speed while simultaneously viewing the live colour video feed on the LCD monitor. The monitor continuously displays the total depth of the camera digitally, and can be shielded from sunlight using the monitor's outdoor viewing hood.

Also, the Operator can toggle between the StrataCam™ Borehole Camera's down view and side view cameras, each illuminated by shock-proof high intensity LEDs with over 5000 hours lifespan. The side-view camera has continuous 360 degree rotation both directions to clearly record the full perimeter of the borehole while being completely unobstructed by the camera's centralizer, which stabilizes the image and protects the lenses from damage. The real-time DVDR digital video recorder saves any part of the survey to DVD with the push of a button.

The StrataCam™ Borehole Camera is shipped fully assembled on its portable two wheeled cart, with an extendable 0.9 m (3 ft.) boom to reach over drill cuttings and position the camera over the centre of the borehole.

\* - With optional Small Diameter Camera.

- Dual colour cameras with industry leading image quality.
- Portable with ease of wheeled deployment to the borehole.
- Synchronized camera rotation so side image always at 12 o'clock.
- Powered camera reel for stress-free camera lowering and raising.
- Shock-proof LED lighting lasts over 5000 hours.
- Provided fully equipped and fully assembled.
- MREL's 1 year Comprehensive Parts & Labour Warranty.

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HIGH STRENGTH (340 kg) CABLE  
 NEMA-RATED O-RING CONNECTIONS  
 SCREW ON DEBRIS COVER



STAINLESS STEEL BODY

STAINLESS STEEL CENTRALIZER BANDS  
 STANDARD CAMERA: 2.5 INCHES (63.5 mm)  
 SMALL DIAMETER CAMERA: 2 INCHES (50.8 mm)  
 PYREX GLASS HOUSING (500 PSI SEALS)  
 SIDE VIEW COLOUR CAMERA  
 32 HIGH INTENSITY LED BULBS  
 18 HIGH INTENSITY LED BULBS



DOWN VIEW COLOUR CAMERA

12 VDC POWER CONNECTION  
 CAMERA CONTROLS  
 POWER OUT FOR DVD RECORDER



CAMERA MONITOR  
 REEL POWER CONNECTION  
 REEL CONTROL CONNECTION  
 REEL CONTROLS

DVD RECORDER

## STRATACAM™ BOREHOLE CAMERA SPECIFICATIONS:

**Power:** Rechargeable external 12 VDC gel-cell battery, complete with digital voltage display. Alternate power cable for connection to 12 VDC vehicle battery. 100-240 VAC universal adaptor and battery connection cables are provided.

**Sensors:** Two 6.4 mm (1/4 in.) Interline Charge-Coupled Devices (IL CCDs).

**Resolution:** Down View Camera: 330 TVL (NTSC and PAL). 510 x 492 (NTSC), 500 x 582 (PAL). Side View Camera: 460 TVL (NTSC and PAL). 768 x 492 (NTSC), 765 x 582 (PAL).

**Light Sensitivity:** Down View Camera: < 0.5 LUX.  
 Side View Camera: > 1.0 LUX

**Recording Times:** DVDR digital video recorder is capable of storing approximately one hour of video at High Quality (HQ) settings. Longer record times are available at reduced recording speeds:

Video Quality	Record Length
HQ	1:01:07
HSP	1:31:41
SP	2:02:15
LP	3:03:23
SLP	6:06:46

**System Components Provided:** StrataCam™ Cable Unit, StrataCam™ Control Box, Mounting Plate, Power and Control Cable, StrataCam™ Battery, Power Adaptor, Power Cable, Alternate Power Cable, StrataCam™ Camera, Centralizer, Camera Bag, StrataCam™ Monitor, Monitor Hood, Monitor Remote and Manual, StrataCam™ DVDR Digital Video Recorder and Manual, with Power and Video Cables.

**Environmental:** The StrataCam™ Borehole Camera is fully operational from 0°C to +60°C (+32°F to +140°F).

**Warranty:** MREL's 1 year Comprehensive Parts and Labour Warranty.  
**Technical Support:** MREL's Unlimited Technical Support Program by secure customer portal, email, and telephone.

## UPGRADES:

**Small Diameter Downhole Camera:** This camera is designed for water wells, boreholes and vertical shafts as small as 2 inches in diameter. This camera has effective survey capabilities for 2-inch to 10-inch (5-cm to 25-cm) well diameters.

## VIDEO RECORDING:

Getting great high-quality video records with the StrataCam™ Borehole Camera is as easy as wheeling your StrataCam™ out onto the bench, sizing up the Centralizer, and plugging in the battery. To record what you see, simply insert a blank DVD, click FORMAT DISC, and then start recording! You can pause the recording by tapping REC, or end the DVD chapter by pressing STOP. To start another chapter, simply press REC again. When you're all done, go to the SETUP menu to format the disc for playback in a DVD pl

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