

STRATACAM™ II BOREHOLE CAMERA

COLOUR MONITOR: 228 mm (9 in.) COLOUR LCD DISPLAY.
ON-SCREEN DIGITAL DEPTH DISPLAY: FEET OR METRES.
POWER: 12 VDC ABSORBED GLASS MAT (AGM) BATTERY – 120 OR 240 VAC CHARGER
SIDE VIEW CAMERA: 360° CONTINUOUS ROTATION
DOWN VIEW CAMERA: DOWNWARD VIEW
BOREHOLE DIAMETER: 76.2-305 mm (3-12 in.) WITH ADJUSTABLE CENTRALIZER.
WET CONDITIONS: WATER TIGHT TO 3.4 MPa (500 psi).
MAXIMUM DEPTH: 305 m (1000 ft.).



SIDE VIEW CAMERA

DOWN VIEW CAMERA



0.9 m (3 ft.)
EXTENDABLE
BOOM ARM

HIGH INTENSITY
LIGHTING
SYNCHRONIZED
DUAL CAMERA
SYSTEM

PORTABLE CAMERA
CONTROLLER
LCD & DIGITAL
DEPTH COUNTER

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

MOTORIZED
REEL

12 VDC POWER SUPPLY
WITH DIGITAL DISPLAY
IN BATTERY CRADLE

CABLE UNIT

DIGITAL VIDEO
RECORDER

MREL's StrataCam™ II 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 valuable to a blaster who may need to modify the explosives loading plan accordingly.

The StrataCam™ II Borehole Camera can perform high resolution video surveys of dry or water filled boreholes with diameters as small as 76.2 mm (3 in.) to a maximum depth of 300 m (1000 ft.). 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 LCD monitor continuously displays the total depth of the camera digitally.

The Operator can quickly toggle between the StrataCam™ II 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 recorder is a flash based hard drive with 16 GB of internal storage and 16 GB of external USB storage.

The StrataCam™ II Borehole Camera is provided fully equipped and assembled on its portable two wheeled cart.

- 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.

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

STAINLESS STEEL BODY

STAINLESS STEEL CENTRALIZER BANDS

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



STRATACAM™ II BOREHOLE CAMERA SPECIFICATIONS:

Power: Rechargeable external 12 VDC AGM battery, complete with digital voltage display. Alternate power cable for connection to 12 VDC vehicle battery. 120 or 240 VAC adapter and battery connection cables are provided. Voltage to be specified at the time of order.

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

Resolution: Down View Camera: 540 TVL

Light Sensitivity: Adjustable LED with five stages to ensure ideal level of lighting.

System Components Provided: StrataCam™ II Control Unit, StrataCam™ II Winch, StrataCam™ II Control Cable, Auxiliary Power Cable, Power Cable, StrataCam™ II 12 Volt Battery, StrataCam™ II Camera, Centering Bands (with Collars), Camera Case and StrataCam™ II Battery Charger (120 or 240 Volt AC).

Environmental: The StrataCam™ II Borehole Camera is fully operational from 0° to 50° C (32° to 122° 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.

Recording Times: The internal memory will store at least 8 hours of video.

File Format: The video files are recorded as .ts or .mp4 file and the snapshots are .jpeg files.

Operational Time: The expected run time for the battery is 4 to 5 hours, depending on the amount of motor activity.

Textual Input and Control: The StrataCam™ II Borehole Camera is provided with a wireless mini keyboard.

VIDEO RECORDING:

Getting great high-quality video records with the StrataCam™ II Borehole Camera is as easy as wheeling your StrataCam™ II out onto the bench, sizing up the Centralizer, and plugging in the battery. To record what you see, simply start recording on to the internal solid state DVR with 16 GB of storage. Expandable USB flash drive can be used for greater recording capacity.

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