



HANDITRAP II™



MICROTRAP™



DATATRAP II™



STRATACAM™

MEASURING THE INVISIBLE

MREL's Blasting Instrumentation Department manufactures the world's most popular and proficient family of continuous explosives velocity of detonation (VOD) recorders. These reliable, rugged instruments are in use throughout the world by blasters and explosives experts to verify the performance of explosives and delay times between holes and explosives decks. Two of the recorders can also be used as portable high-speed data loggers to record vibrations, pressures, temperatures etc.

MREL's Blasting Instrumentation Department manufactures the StrataCam™ Borehole Camera which is used to clearly view and accurately record the physical location of weak/strong geological strata boundaries, ore/waste boundaries, coal seams, top of coal, top of water, water ingress, borehole cracks, cavities, and irregularities.

MREL's Blasting Instrumentation Department provides affordable, portable high-speed digital video camera systems for blasters and explosives experts. Each camera is supplied with ProAnalyst® Motion Analysis Software to allow determination of blasthole delay times and face velocities, and is also available with the Blaster's PWT™ Portable Wireless Trigger System to allow operation of the cameras wirelessly from a remote distance.



BLASTCAM™



BLASTER'S RANGER™



BLASTER'S PWT™



PROANALYST®



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PROANALYST®

The HandiTrap II™ VOD Recorder is a 1 channel explosives velocity of detonation (VOD) recorder that is capable of profiling the VOD continuously along one explosives sample or continuously along the explosives column in one blasthole per test. With unparalleled ease-of-use the HandiTrap II™ is a favourite of mines and quarries performing spot checks of explosives performance.

The MicroTrap™ VOD/Data Recorder has 1 channel for recording explosives velocity of detonation (VOD) and optionally 4 channels more for recording any sensor that outputs DC voltage. If you need to profile the VOD continuously along one explosives sample or continuously along the explosives columns in multiple blastholes per test, then the MicroTrap™ is your affordable choice.

The DataTrap II™ Data/VOD Recorder has 8 channels that can be set to record explosives velocity of detonation (VOD) or any sensor that outputs DC voltage (vibration, pressure, temperature, strain). If you need a rugged universal recorder that can record a variety of sensors and can also record the VODs in many explosives samples and/or blastholes per test, then consider the DataTrap II™.

The StrataCam™ Borehole Camera performs high resolution video surveys of dry or water filled boreholes with diameters as small as 63.5 mm (2.5 in.) to a maximum depth of 300 m (1000 ft.). You can easily toggle the powered cable reel to raise or lower the camera's position in the borehole and adjust the speed while viewing/recording the live colour video and depth on the LCD monitor.

The BlastCam™ High Speed Digital Video Camera is an easy-to-use high speed video recording system ideally suited to the blasting industry worldwide. It provides improved light sensitivity, faster recording speeds, high resolution and unique self-triggering abilities to allow accurate determination of the actual firing times of blastholes and the nature of the rock movement.

Rugged, portable and available in colour or monochrome models with video resolutions of up to 1280 x 1024 pixels, the Blaster's Ranger™ High Speed Digital Video Camera is ideally suited to recording and playing back mine and quarry blasts in slow motion detail. With the ease-of-use of a camcorder, the Blaster's Ranger™ is used worldwide to record the performance of blasts.

The Blaster's PWT™ Portable Wireless Trigger allows operators to send a trigger signal to their cameras or other instrumentation from a remote distance without needing to utilize long trigger wires. This allows blasters to position one or more cameras closer to the blast than might be considered safe for a person and then trigger the cameras wirelessly from up to 500 m (1640 ft.) away.

ProAnalyst® Motion Analysis Software for Windows provides quantitative information from high speed digital videos taken of events that occur too quickly for the eye to see. For blasters the quantitative data includes the actual hole and deck delay times, the time of first rock face movement, the rock face velocities, and the stemming ejection velocities.