



Blasts and their effects occur too quickly to be captured with standard speed video cameras. To understand your blast behavior, high speed video (HSV) recording is required to record and analyze the necessary information to optimize the blasts.

APPLICATIONS

✗	Open pit
✗	Civil construction
✗	Underground
✗	Quarry

BENEFITS

Visualization of the rock movement of the rock to obtain details and improve the following criteria:

- ✗ Timing
- ✗ Rock displacement
- ✗ Correct stemming length
- ✗ Quality of stemming
- ✗ Toe Movement
- ✗ Potential Fly-Rock zone
- ✗ Dispersion time of Electric and Non-Electric detonators
- ✗ Verification causes of the seismic overlap generated by the dispersion
- ✗ Phenomenon of the Cut-Off produced from the geologic and stratigraphic conditions of the rock
- ✗ Misfiring
- ✗ Accuracy of electronic detonators 1-2 ms.



EQUIPMENT

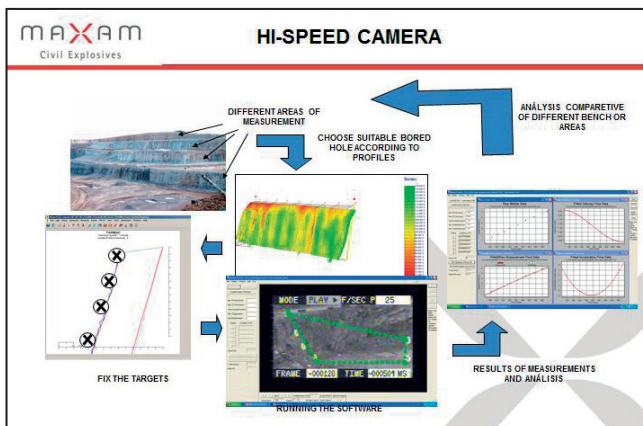
There are many commercial cameras that can be used in this application. Depending on the accuracy, operation flexibility and investment required, it is possible to choose the one that best fits each use.



METHODOLOGY

First rule in the HSC methodology is SAFETY. It is necessary to put the camera in a safe position. The operator should use shelters or special trigger devices such as remote control or movement sensors

Reference positioning adds to the recording geometric value, therefore it is possible to measure displacement, velocity of movement, etc, that could be the link with blast design and blast results.



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