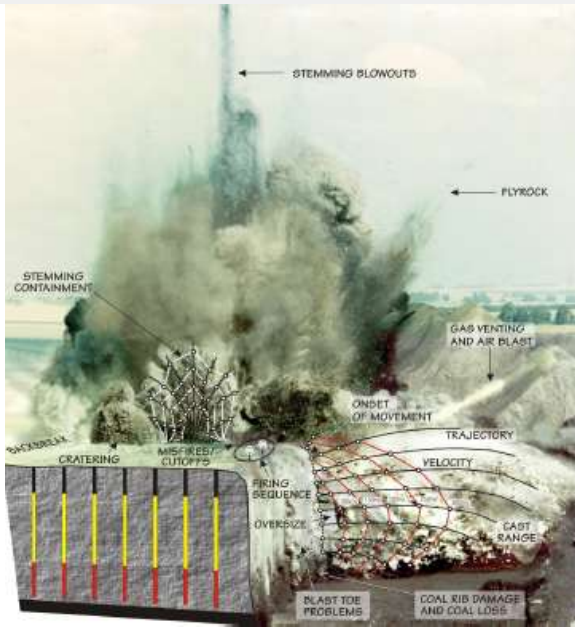## ■ 고속 디지털 카메라 (TroubleShooter)

발파 장면을 고속 디지털 비디오 혹은 카메라로 촬영하여 1) 암 파쇄 정도, 2) 궤도 및 속도, 3) 적절한 지연 시차 및 뇌관 배열, 4) 화약 성능, 5) 먼지 비산 등 환경적 피해 등을 시각적으로 분석할 수 있습니다.

Blaster's TroubleShooter™ Specifications

RECORDING TIME and FRAME STORAGE			
Camera Models (M = monochrome) (C = colour)	Recording Rate (Frames per Second)	Recording Time with Standard Memory of 2,184 Full Frames (640 x 480 pixels)	Recording Time with Enhanced Memory of 4,368 Full Frames (640 x 480 pixels)
250M & 250C	25	87.20 seconds	174.40 seconds
	30	72.66 seconds	145.32 seconds
	50	43.60 seconds	87.20 seconds
	60	36.33 seconds	72.66 seconds
	125	17.44 seconds	34.88 seconds
	250	8.72 seconds	17.44 seconds
500M & 500C	500	4.36 seconds	8.72 seconds
1000M & 1000C	1,000	2.18 seconds	4.36 seconds

Resolution	640 x 480 pixels CMOS array, 8 bit monochrome or 24 bit colour models are available. For a higher resolution Blaster's TroubleShooter™ camera with 1280 x 1024 pixels see the Blaster's TroubleShooter-HR Brochure.
Trigger	Flexible trigger options allows the operator to create the perfect Pre and Post event trigger settings for capturing images of the blast. Trigger activation is selectable by the operator.
Lens Mount	Standard C-mount.
Power	4 internal D-cell batteries or 6 VDC from external battery or 120/220 AC mains power from supplied adapter.
Field Settings	The LCD colour display on the TroubleShooter™ has an on-screen menu. The menu allows the operator to make all camera settings in the field including: selection of play and live modes; trigger mode; recording rate; display size; shutter speed; play forward; play reverse; play speed; play frame by frame in step mode.
Components	TroubleShooter™ with standard memory, CD-ROM containing the TroubleShooter™ Operations Guide and MotionMeasure software for video downloading and playback, 110/220 AC power adapter (power cord not included), C-mount lens adapter, built-in 127 mm (5 in.) LCD color display, USB-2 port for digital image transfer, CompactFlash port for on-board non-volatile memory (CompactFlash card not provided), Trigger, Pulse In, Pulse Out, IRIG, DC Power In.
Size & Weight	TroubleShooter™: 152 x 127 x 102 mm (6 x 5 x 4 in.) 1.0 kg (2.2 lbs.).
PC Connection	USB-2 for downloading avi digital video from the camera for storage on the computer's hard drive and/or or use CompactFlash card.
Warranty	1 year Comprehensive Warranty.