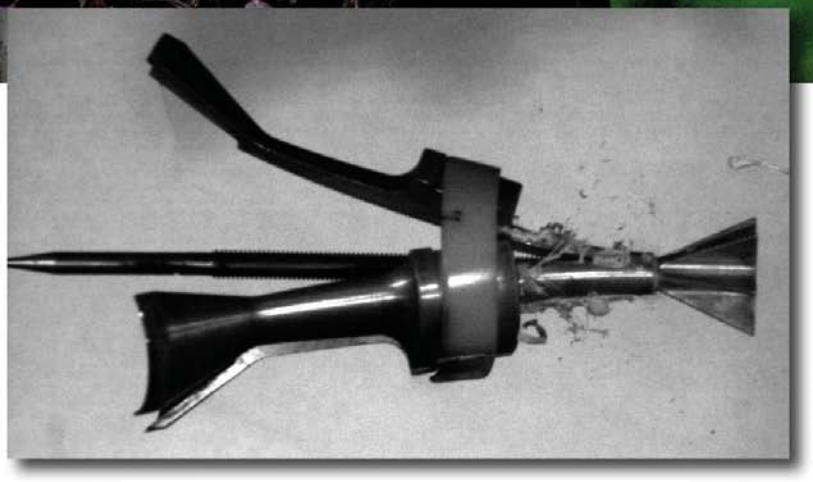
DRS's SVR 3 BALLISTIC RANGE CAMERA

DRS's SVR 3 Ballistic Range Camera is the future of ballistic range imaging. The image quality, dynamic range and optical sensitivity of this camera, combined with reduced size, weight and 'through the lens' periscope focusing, make it an exceptional piece of technology. Additionally, the simplified set-up time, increased reliability and ruggedness are also a major feature of the SVR 3.



Bullet in Flight
40 mm APFSDS, Velocity 1500 m/sec
Image taken at 200 ns exposure
(Courtesy BAe Systems)

The 2048 x 2048-pixel 12-bit CCD sensor, fiber optically coupled with a high resolution 40 mm Micro Channel Plate (MCP) Intensifier, provides the exceptional image quality, dynamic range and optical sensitivity that are unique to this camera.

The SVR3 integrates easily into existing range systems. Its operating software, Windows® 2000/NT/XP, offers all the functionality of the previous versions with full downward compatibility for control of any previous SVR-type camera. This unique compatibility allows the end-user to incorporate up to four camera systems of any vintage to facilitate user-specific testing parameters.

DRS DATA & IMAGING SYSTEMS, INC.

DRS TECHNOLOGIES

DRS's SVR 3
Technical Specifications

Features

- 2048 x 2048-pixel resolution per frame
- 12-bit CCD sensor
- 1:1 fiber optic coupling to 40 mm MCP
- 200 Mb/s fiber optic data link
- 20 ns - 1 ms exposure times
- Full control and analysis software
- Through-the-lens periscope focusing
- Single shot or up to 16 exposures
- Ruggedized

Optical

Number of frames	1 frame
Lenses	SLR Nikon® mount
System aperture	No restrictive aperture

Intensifier/CCD

Intensifier	Gated high resolution 40 mm MCP f/o coupled
Photocathode	S20/S25
Gain	Up to 8,000X in 10 steps
Resolution	2048 x 2048 pixels per frame
Pixel size	14 µm square
Dynamic range	12 bits

Timing Parameters

System clock	100 Mhz
Inherent delay	100 ns
Exposure times	20 ns to 1 ms in 10 ns steps
Delay to first exposure	100 ns to 10 ms in 10 ns steps
Preflash timings	1 µs - 1 ms
Number of exposures	Up to 16 exposures per frame

Input/Output Signals

Input triggers	TTL (+/-); make/break into 470 Ohms
Monitor pulses	Width and position user programmable
Preflash output	TTL into 50 Ohms pulse width 1 µs
Control	Fiber optic communications up to 1 km

Dimensions

Length	505 mm
Width	165 mm
Height	295 mm
Weight	10.5 kg (23 lbs)

Specifications subject to change without notice.

DRS DATA & IMAGING SYSTEMS, INC.
138 Bauer Drive
Oakland, NJ 07436
USA
201.337.3800
800.248.4686
Fax 201.337.2704
www.drsdigitalimaging.com
info@drs-dis.com

International Sales:
DRS DATA & IMAGING SYSTEMS LTD.
Lynwood House, The Trading Estate
Farnham, Surrey
United Kingdom GU9 9NN
+44 (0) 1886 812444
Fax: +44 (0) 1886 812773

DRS DATA & IMAGING SYSTEMS, INC.

DRS TECHNOLOGIES

521-SS-4/05