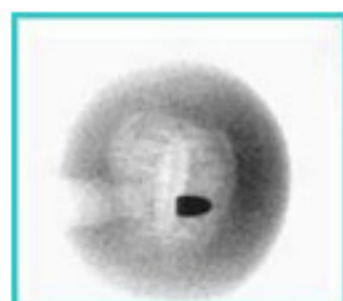


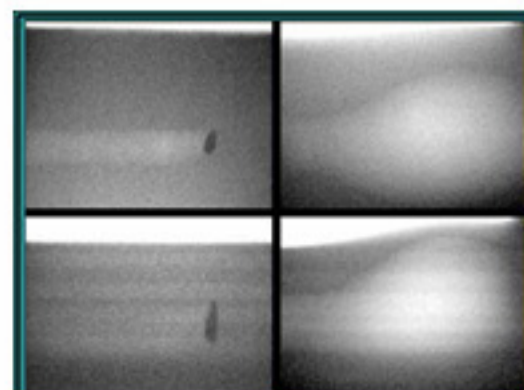
Multi-Detector Digital Flash X-ray Imaging System



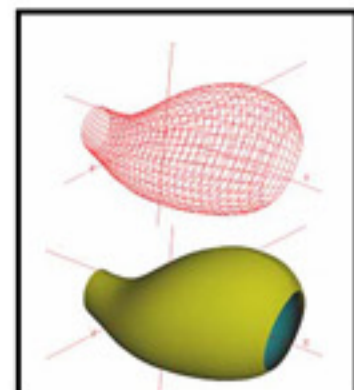
A bullet is passing a melon imaged by RISE-FLASH-4D in 25 ns



The melon broke in 1.5 ms after shot by a bullet



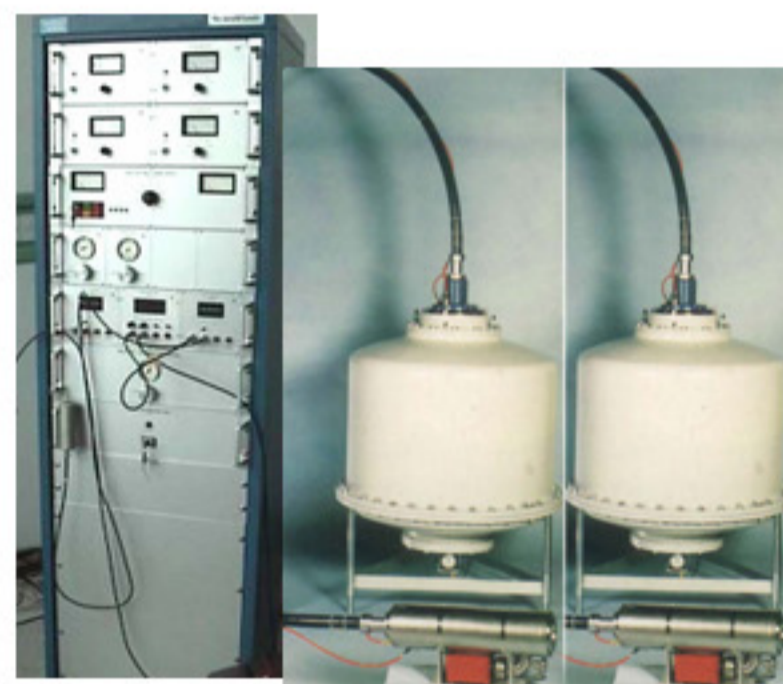
Left: Orthogonal images of a rifle bullet passing a gelatin block with 700m/s speed
Right: A cavity appears in the gelatin block at 1.5ms later



3D gelatin cavity reconstructed by RISEHOOD software

RISE-FLASH-4D at a customer's Lab

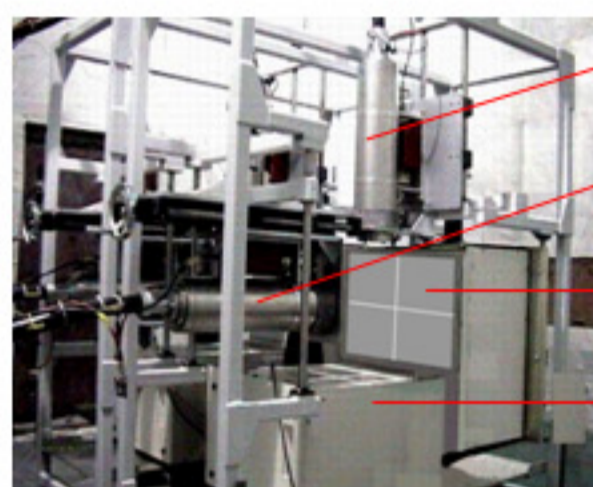
450kV 25ns Flash X-ray Generators



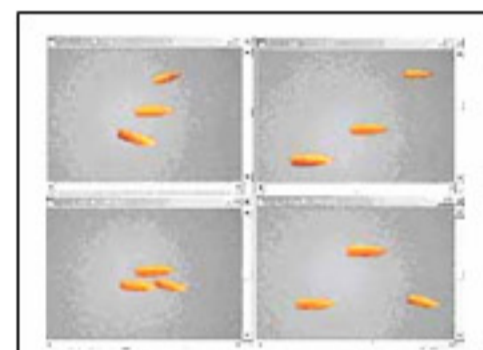
Data Acquisition Units



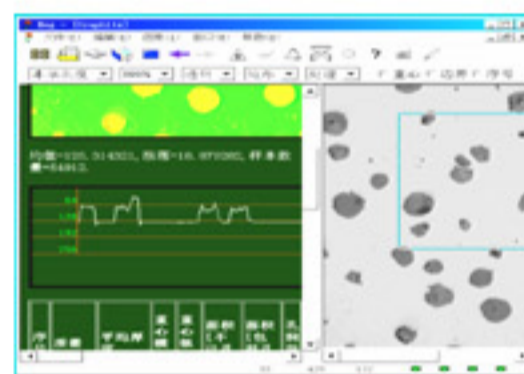
Main Computer



Vertical X-ray Tube
Horizontal X-ray Tube
Horizontal Detector
Vertical Detector



Two instants orthogonal imaging of multi-bullet



Exploded pieces identified and numbered by RISE Software

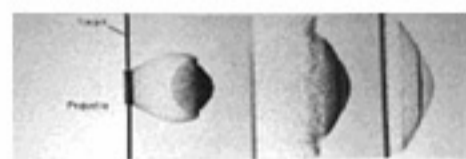
RISE-FLASH-4D FLASH X-RAY IMAGING SYSTEM

Flash X-ray Generator Scand flash 450S Scand flash 150	Tube Voltage	Peak Current	Pulse Width	Focus	Exposure Dose	Penetration
	160-480 kV	10 kA	25 ns	2.5 mm	24 mar (1m)	34 mm Fe
	75-150 kV	2 kA	35 ns	1 mm	25 mar (25cm)	60 mm Al
Flash X-ray Detector RISE-FLASH-4DD	Sensitive Area		Sensitivity		Pixels	Contrast
	40 cm×30 cm		Full Bright / 1mR		768×596	50:1
Image Acquisition Units RISE-FLASH-4DA	Channel	Acquisition Mode	Image Capturer		Connection	
	1、2、4	Self Identify	Matrix Meteor-II		Net HUB	
Main Computer	High Level PC					
System Software RISE-FLASH-4DS	Multi-Detector, Multi-Mode (Single, Orthogonal, Delay) Acquisition, 1-4 image Display, 1-4 image saving with RISEHOOD Format *.dry or *.bmp format. Full Screen or Window Procession, Linear and Non-linear Filtering, Contrast Optimizing Gray Adjustment, Gray Profile, Edge Enhancement, Pseudo Color, Objects Identification and Calculation, Quasi-3D Reconstruction. Digital Documentation.					

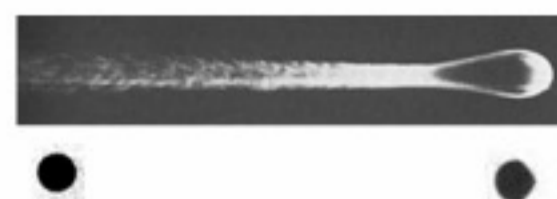
A Time Stopping Technology for X-ray Imaging

Application Examples of Flash X-ray Imaging

The first 4 images are quoted from Nondestructive Testing Handbook (ASNT)



Images taken at 3 instants of an aluminum ball hitting an aluminum plate with a speed of 6.71km/s



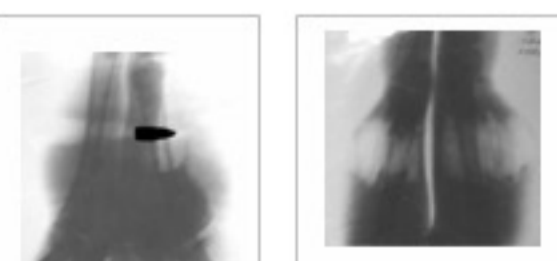
An 8mm aluminum ball with a speed of 3.5km/s is passing the air. Above: Picture taken by visible light camera. Below right: The right shape of the ablating ball can be seeing by Flash X-ray imaging.



Armour-piercing imaged by Flash X-ray



Image of firing a multi-bullet M-79 submachine gun



Wound Trajectory Research
Left: A bullet is passing an animal carcass
Right: The wound status at 0.5ms after shot