

40mm SPARCS



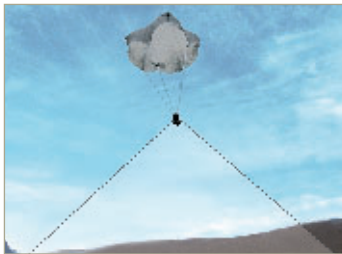
40mm Soldier Parachute Aerial Reconnaisance Camera System

- Compatible and easy to use with all standard 40mm low velocity grenade launchers
- Improve situational awareness for ground commanders and personnel
- Low cost intelligence gathering solution
- On demand availability
- No maintenance and logistic support required



ST Kinetics

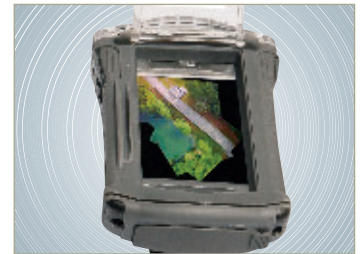
A company of ST Engineering



Deployment in the sky



Captured images during descent



Stitched image on handheld device

Operations

ST Kinetics 40MM SPARCS is designed to be fired from existing grenade launchers in use by most military, law enforcement and civil disaster management agencies. The projectile carrying the camera will be deployed to acquire top down aerial views of the target area. Images captured are automatically stitched together to provide a wider aerial image of the target area. When used in built up areas, information on rooftops, behind cover and alleys is effectively captured in real time for better situational awareness.

Real time images from the camera are sent wirelessly to the receiving station, which can be any computing device attached with a wireless receiver. The images are then stitched together by a software that is compatible to most operating systems. The composite image can be transmitted to other personnel on the ground carrying handheld devices or to higher echelons.

Alternatively, the receiving station can be re-packaged into the load bearing vest with a head-mounted display (HMD).

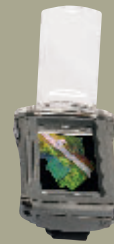
Operational Concept



Receiving Station



S407 round



PDA



Optional Receiver configuration with HMD

Technical Specifications

S407 Round			
General		Performance	
Applications	Real Time Aerial Reconnaissance for ground personnel	Muzzle Velocity (m/s)	76
Length (mm)	136	Maximum Range (m)	150(Altitude)
Weight (g)	220	Capability	Real time intelligence situational awareness from video images
Primer Type	Percussion	Weapon Compatibility	
Warhead/Charge	CMOS Camera	CIS40GL Grenade launcher; HK69A1; M203; M79; AG36	
Fuze	Delay	Packaging	
Operating Temperature (°C)	-10 to +63	Packing	18 rounds in M2A1 metal box
Hazard Classification	1.4C	Dimensions (mm)	300 (Length) x 155 (Width) x 185 (Height)
UN Number	0339	Volume (m³)	0.0086
Receiving Station		Gross Weight (kg)	8
Size (mm)	350 x 300 x 152		
Frequency (GHz)	2.4		

Note: Specifications are subject to changes by the manufacturer without prior notice.

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