

WEISS  
HOPE  
FRIED  
WMB

DECLASSIFIED UNDER AUTHORITY OF THE  
INTERAGENCY SECURITY CLASSIFICATION APPEALS PANEL,  
E.O. 13526, SECTION 5.3(b)(3)

ISCAP APPEAL NO. 2013-027, document no. 13  
DECLASSIFICATION DATE: September 29, 2014

	ZSU-23-4	VULCAN
Operation	All Weather	Fair Weather, Daylight Only
Radar	Ku band, 360° (Est) Search, Track	X band, Range Only
Acquisition	Radar	Visual
Track	Automatic	Manual
Prediction	Linear	Linear
Effective Rg	2500-3000 meters	1600 meters
Armament	4-23 MM Liquid cooled	20 MM Gatling Air cooled
Rate of Fire	3200-4000 SPM	3000 SPM
Ready to Fire Ammo	2000 Rds	1100 Rds
Projectile Weight	2900 Gr	1600 Gr
Muzzle Velocity	3052 FPS (Est)	3400 FPS
Turret	12,000 lb, Closed (Est)	4,000 lb, Open
Collective Protection	Yes	No
Land Navigation System	Yes	No
Optical back-up	Excellent	Good
Shoot-on-the-move	Yes	No
Vehicle	PT 76 Derivative	M113
Amphibious	No	Yes
System Weight	40,000 lbs (Est)	26,000 lbs
Crew	4	4

CLASSIFIED BY DARD-DD  
SUBJECT TO GENERAL DECLASSIFICATION  
SCHEDULE OF EXECUTIVE ORDER 11652  
AUTOMATICALLY DOWNGRADED AT TWO  
YEAR INTERVALS  
DECLASSIFIED ON 31 DECEMBER 1980