SkyRanger

Multi Mission
Vehicle Armament &
Air Burst Munition
for
Expeditionary Warfare
Force Protection
Conflict Management Dynamics

Cold War
-- Clear Rules
-- Doctrines
-- Plans

Hot War
-- Three Block War
-- Asymmetric & Symmetric Threats
-- Expeditionary
-- Rapid Deployment
-- Dynamic Planning
Turreted Gun Limitations

STRYKER elevation +15, Depression -5
M1/M1 A2 elevation +20, Depression -10
BFV elevation +60, Depression -10
SkyRanger Gun System

Typical Layout

Example of Installation
35mm Ahead Turret
35 mm Revolver Cannon & Ahead Ammunition
35mm Air Burst Munition
Kinetic Energy Time Fuze (ABM-KETF)

Notice: The payload (500g) is composed of cylindrical W-Subprojectiles (here 3.3 g each). For engagements other than AA (e.g. G-to-G) the mass of the subprojectiles can be reduced accordingly (e.g. 1 to 1.5 g)
Effective against UAVs & Helicopters

QuickTime™ and a YUV420 codec decompressor are needed to see this picture.

China Lake NAWS July 2004
Helicopter Target (UH-1, Static)
Effectiveness of 35 mm Ahead Ammunition

• 2 Shots
• Range: 1500 m
• Entry Side
• Ref.: APG/Oct. 98
Effectively Neutralizes Heavy Armor
Effective against ATW Positions
U. S. Army Breeching Techniques
Breeching Fire

8" Concrete Wall
Double Steel-Structure Reinforced

Video: M1 15962BA
Base Defence – Counter Mortar

Demonstrated 12.2004

QuickTime™ and a YUV420 codec decompressor are needed to see this picture.
Ahead Lethality – Dismounted Troops

4 Rds @ 135 Subprojectiles = 540 SP
Total: 107 Plate Perforations (~ 20%)

Firing Range: ~ 1 km
Simulated Range: ~ 1.2 km
4 Rounds (Single Shots)

Firing Direction

9 Plates @ 1 m²:
2 mm Steel plate 37-2
2 m high x 0.5 m wide

Target Area: 10 (width) x 30 (depth) m
The target area is 27 m higher than the gun muzzle
**ABM Ground Operation Modes**

**Point Target** (incl. ATGW-Bunker, Prone & Covered Troops, MBT, Helicopter):

**Area Target** (Diffused Targets):

**Linear Target** (e.g. road with vehicles):

**Pre-Determined Air Space** (e.g. swarm of helicopters):
SkyRanger Capabilities

• Automatic target detection and tracking
• 35mm Revolver Cannon (1000 rds/min.)
• Independent line of sight
• Air and ground target engagements
• Small target engagement capability
• 200 rounds ready to fire ammo
• Dual feed
• Rapid single shot (200 rds/min.)
• Unmanned turret
• Navigation system
• Battery powered
• Low mass / Turret: 3.4 + 0.8 inside equipment (tons)
Questions?

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