



**WB GROUP**   
AMERICA

## ***HAWKEYE-T***

105MM Howitzer with TOPAZ Integrated  
Combat Management System





# 105MM MOBILE WEAPON SYSTEM (105MWS)

## HAWKEYE-T

### Weapon System

Hawkeye Howitzer, Light, Modular, M20 Cannon

### Caliber

105mm (4.13 in)

### Length

134.75 in. (3.42 m)

### Width

38.68 in. (.98 m)

### Height

45.57 in. (1.16 m)

### M20 Cannon w/Breech

1145 lb.

### Cradle/Recoil Mechanism

605 lb.

### Total Tipping Parts

1750 lb.

### Top Carriage

Group 720 lb.

### TOPAZ Integrated Combat Management System (ICMS)

### No. of grooves

36

### Muzzle brake

None (Optional Diffuser if Requested)

### Breech block

Vertical Sliding Block

### Recoil Mechanism

Hydro-pneumatic, soft recoil

### Carriage

Aluminum Alloy

### Traverse limits

180 degrees (3200 mils) – Possible 360 if Required

### Elevating limits

-5 to +72 degrees (-89 to 1173 mils)

### Temperature Range

Lower Limit  
-40°F (-40°C) Upper  
Limit  
+125°F (+52°C)

### Equivalent Full Charge (EFC)

6,500 rounds

### Crew Requirements

4 personnel (Extreme  
Conditions: 2 personnel)

### M20 105mm Ammunition Compatibility

#### M1

High Explosive Round

#### M314

Illumination Round

#### M60/M60A2

Smoke Cartridge

#### M913

RAP Round

#### M760

High Explosive Round

#### M1130A1

High Explosive Performed  
Fragmented Round  
All NATO standard  
cartridges and fuzes

### M20 Cannon Specifications

#### Rate of Fire

Maximum: 8 rounds per  
minute for 3 minutes  
Sustained: 3 rounds per  
minute

#### Maximum Firing Range

Charge 7: 7.2 miles (11.6 Km)  
RAP: 12.2 miles (19.5 Km)

#### Designated Prime Mover

M1152A1w/B2 HMMWV

## TOPAZ Integrated Combat Management System (ICMS)

TOPAZ-ICMS is a fully integrated fire control solution enhancing situational awareness. The TOPAZ-ICMS solution facilitates an adaptive workflow drawing upon the core elements in battle: overwatch / observation, management / logistics and strike.

All these elements in tune together transform situational awareness and common operating picture to the next level, creating a COLLABORATIVE OPERATING PICTURE for military commanders.

FONET, as the hardware element within TOPAZ-ICMS, is a set of devices and software which enables a unified voice and data exchange base between military vehicles on the multidomain battlefield.

Additional Features which may be integrated to this platform include;

- UAV's for Reconnaissance and Targeting
- Loitering Munitions
- Additional Direct/Indirect Fire Applications
- A wide variety of Tactical Handheld and Vehicular Radio Platforms

## A fully integrated, modular set of applications:

### TOPAZ Recon

-  reconnaissance
-  observation
-  situational awareness

A function that enables the real-time analysis of information acquired from reconnaissance and observation systems – this include the unmanned aerial systems, ground surveillance systems, battlefield radars and various types of observation sensors.

### TOPAZ Tactics

-  communications
-  command
-  battlefield management

Enables the automated command of all subordinate units. In addition, thanks to the integration with the civil communications systems, this function enables soldiers to communicate with crisis response units and uniformed service.

### TOPAZ Strike

-  strike
-  air strike
-  anti-aircraft protection

Enables to carry out a precise strike using available loitering munitions systems.

### TOPAZ Logistics

-  supplies
-  service
-  support
-  modernization

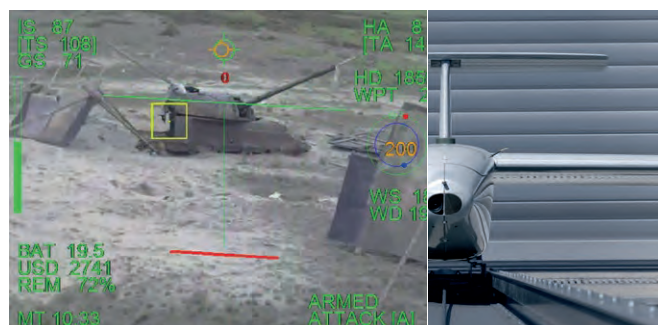
Enables the control of all logistic assets, including ammunition reserves and technical condition of vehicles by the commander.

### TOPAZ AFCS (Automated Fire Control System)

-  fire control system
-  integration of firing assets

The original version of TOPAZ is a complex system enabling the commander to gain full control on the battlefield with help of all available surveillance sensors.

The key advantage of TOPAZ ICMS is its modularity and scalability. This allows to build various configurations that connect all WB GROUP's products and functions, creating a fully integrated solution enhancing situational awareness in the military and civil sectors, that provides support in strategy, mission planning & preparation.





## COMPATIBLE PRODUCTS

**FONET** Digital Communication Platform

**WARMATE** Loitering Munitions System

**FLYEYE** UAV

The family of **COMPON** radios

Dismounted Observation & Command System **U-GATE**



1800 Diagonal Road, Suite 600  
Alexandria, Virginia, 22314 USA

t: +1 571 366 1772