

M75® SCREENING OBSCURATION MODULE (SOM)

**Degrade battlefield visibility.
Limit the enemy's performance.**

Medium-area/medium-duration screening obscuration system.

OPERATIONAL CAPABILITIES

The M75 SOM* is a modular, turbine-based system capable of emitting a non-lethal effect that limits the performance of enemy equipment and weapon systems. Hampering battle space visibility increases warfighter and platform survivability. The generated effect exceeds 200 meters for more than 12 minutes. Man-portable and easy-to-use, the system can be operated by a single soldier in both mounted and dismounted configurations.

Specifically, the M75 SOM obscures visual to near-infrared wavelengths of the electromagnetic spectrum. Obscurant material is furnished to the Obscuration Generation Unit (OGU) for dissemination by a common external fuel can container. The visually impermeable screening obscuration effect is generated in under two minutes.

Monitor and control of the OGU is managed through the OGU control panel or remotely using a handheld Remote Control Unit (RCU). The system is man-portable or universally mountable and equipped with common external power interfaces and internal rechargeable BB-2590 batteries for standalone operation.

The system is packaged in an all-in-one, rugged transit case with its support accessories.



**Increased Platform
Survivability and
Soldier Protection**

KEY FEATURES

- > **Medium-area/duration screening obscuration effect**
 - 204m (l) x 12m (h)
(<95 seconds to full effect)
 - 12-minute runtime (longer/successive use with resupply)
- > **Universally mountable, dismountable, and man-portable**
- > **Dual obscurant capable (diesel fuel and fog oil)**
- > **Turbine-based modular system**
- > **System control panel or tethered/wireless handheld control**
- > **Battery or externally powered operation**
- > **No specialized tooling/MOS requirements**
- > **Future increments would address mid/far-IR and mmW**

MOUNTING FEATURES

Basic M75 SOM dismounted operation (ground-emplaced) requires no special provisions beyond a solid and stable surface. OGU sizing, comparable to the common NATO 5-gallon fuel can, supports rapid and secure mounted operations to standard existing fuel can mounts. Alternatively, the included vehicle mounting straps and multiple OGU strap points support ad hoc mounted operations. The OGU design enables mounting options from upright to lay-flat and includes an exhaust diverter to shield mounting surfaces.

OPERATION AND MAINTENANCE FEATURES

The M75 is designed for easy operations and maintenance supporting single-soldier operations, all MOS/ASI operator compatibility, and 91J or 91D maintenance compatibility. The design supports common power, fuel and oil requirements, and general mechanic's toolkit tooling. It is designed for fast, accurate troubleshooting with modular, replaceable components to support rapid, field-level repairs of failed systems.

SPECIFICATIONS

SCREEN

- > Obscured wavelength: Visual to near-IR region of the electromagnetic spectrum
- > Effect length: Greater than 204 meters
- > Effect height: Greater than 12 meters
- > Effect initiation time: Less than 95 seconds
- > Effect duration: Greater than 12 minutes

OBSCURANT

- > Material:
 - Primary: Fog oil (preferred)
 - Alternate: Diesel
- > Consumption rate: 0.4 gallons/minute

CONTROL

- > Operator controls: Wireless (RCU), tethered (RCU) or local (control panel on top of OGU)
- > Wireless Range (RCU): 500 meters (LOS)

OGU CAPACITY

- > Fuel capacity: 1.8 gallons
- > Fuel consumption rate: 0.1 gallons/minute
- > Oil tank capacity: 1.3 quarts
- > Oil consumption rate: 0.014 quarts/minute

SWAP

- > System (in transit case): Dry weight: 143.9 lbs (Fluid tanks empty)
42.9" (L) x 27.3" (W) x 21.0" (H)
- > OGU: Operational weight: 63.2 lbs (Full fuel/oil and battery installed)
21.4" (L) x 6.7" (W) x 23.6" (H)
Internal BB-2590 or external power



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