Universal MachineGun Sight (UMS)
Red/Green Dot Sight for Crew Served Weapons
(Model: UMS-XXX)

August, 2015
Background

• IT&T successfully introduced red-dot sights for crew-served weapons to SOCOM, USAF, USMC, Army and Navy offering:
  • Reduce time to target engagement
  • Ensure first round hits
  • Increase weapon accuracy
  • Reduced collateral damage

• IT&T’s UMS design is the result of 5+ years of Crew-Served Optics market experience:
  • Low Cost
  • Modular Design -One sight for all crew-served weapons
  • Modular design enables
    • Flexible mission configuration and upgrade
    • Simple product maintenance
  • Improved quality and reliability

• UMS sight is designed and assembled in USA
  • Factory in Midland, VA
  • Range in Midland, VA
Universal MachineGun Sight (UMS)

Tested with 20,000+ rounds
Universal MachineGun Sight (UMS)  
(Model UMS)

- The UMS is designed and developed primarily for mounted crew-served weapons.

- The UMS design allows for quick target acquisition and simplifies the shooting process – Just point & shoot.

- The UMS design enables:
  - One-Shot-One-Hit capability
  - Improved Situational awareness
  - Improved accuracy helps to relieve collateral damage concerns

- With extra wide field of view for heads-up-display, the UMS offers both-eyes-open shooting.

- It offers shooters a pinpoint accuracy and enhances operator's confidence in the field.

- The UMS reduces training time and save ammunition!
The UMS is designed/manufactured for the following machine guns:

- **Heavy Machine Gun** – The M2 Machine Gun, or Browning .50 Caliber Machine

- **The MiniGun** – The M134 is a multi-barrel machine gun with a high rate of fire

- **M240 & M60 Machineguns**

- **M249 Light Machine Gun (LMG)**
The UMS Components

- The UMS consists of the following modules:
  - Lens Body
  - Main Body
    - 5.56 mm BDC Disk (A-type)
    - 7.62 mm BDC Disk (B-Type)
    - 12.7 mm BDC Disk (C-Type)
    - 7.62/12.7 Dual BDC Disk (D-type)
  - Magnification Mount
    - 3X
    - 5X
    - 8X or 3-8X
    - NVG
    - Camera
    - Others
Main Features

- Designed to prevent dirt, snow, mud and other foreign objects accumulations
Main Feature with a 3X mag

Model: UMS-M3X

3X magnifier

Magnification Mount
Features and Upgrades

• **Patented Modular Design**
  – Universal Sight-One sight for all Crew Served Weapons
  – Designed to meet the current US military maintenance requirements.
  – UMS modular design allows for easy lens body/housing swap out.
    • Large Lens body
    • Medium Lens body
  – MGS design includes standard 3x mag, but can be equipped with:
    • 5x
    • 8X or 3-8x magnifier
    • Camera turning optic into a 1st person camera
  – Removable Led Module for an easy maintenance/Repair
  – Red or green color reticle
Bullet Drop Comp Disks

- **We offer the following disks:**
  - 5.56 mm (Part #: UMSD-100)
  - 7.62 mm (Part #: UMSD-110)
  - 12.7 mm (Part #: UMSD-120)
  - Dual caliber disk (7.62/12.7) (Part #: UMSd-130)

- **UMS may include additional bullet drop compensation disks to accommodate other calibers.**

- **For accuracy, we are offering more ranges.**

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Ranges</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.56 mm</td>
<td>100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, &amp; 1200</td>
<td>Total 12 Setting with a stopper</td>
</tr>
<tr>
<td>7.62 mm</td>
<td>100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200 &amp; 1500</td>
<td>Total 12 Settings with a stopper</td>
</tr>
<tr>
<td>.50 cal</td>
<td>100, 200, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1800 &amp; 2000</td>
<td>Total 12 settings with a stopper</td>
</tr>
<tr>
<td>7.62 mm/12.7 mm</td>
<td>6 Settings for 7.62(100, 500, 750, 1000, 1200 &amp; 1500 and stopper)</td>
<td>Dual caliber</td>
</tr>
<tr>
<td>Dual Disk</td>
<td>6 Settings for 12.7(100, 500, 1000, 1500, 1800, 2000 and stopper)</td>
<td>Dual caliber</td>
</tr>
</tbody>
</table>
Removable LED Module

• The UMS comes with a removable LED module with a circle dot reticle
• The removable LED module can be easily replaced with other types of reticles.

• Benefits:
  – Easy to repair/install
  – Easy to upgrade

Etched lens for the UMS
LED Module Model: UMS-200
Magnification Mount
Model: UMS-300

• Users can easily attach:
  – 3X, 5X, 8X and 3-8X Magnification
  – NVG
  – Cameras and other

Model: UMS-110-M3X-110 (7.62 mm Disk)
Installation-.50 Cal

Model: UMS-M3X-120
(12.7mm Disk)

With the 12.7 mm caliber bullet drop compensation disk
Installation-M240

Model: UMS-M3X-110
(7.62 mm Disk)

With the 7.62 mm bullet drop compensation disk
Installation-M60

With the 7.62 mm bullet drop compensation disk
Installation-M249

Model: UMS-M3X-100
(5.56 mm Disk)

With the 5.56 mm bullet drop compensation disk
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>UMS-M1X</th>
<th>UMS-M3X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caliber</td>
<td>5.56/7.62 / 12.7 / Dual</td>
<td>5.56/7.62 / 12.7 / Dual</td>
</tr>
<tr>
<td>Dimensions [L x W x H]</td>
<td>8.6 x 4.3 x 4.3 in [220 x 110 x 110 mm]</td>
<td>13 x 4.3 x 4.3 in [330 x 110 x 110 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>~3.2lbs (1.4Kg)</td>
<td>~4 lbs (1.8Kg)</td>
</tr>
<tr>
<td>Lens Size</td>
<td>3.25 x 1.875 in [82 x 48 mm]</td>
<td>3.25 x 1.875 in [82 x 48 mm]</td>
</tr>
<tr>
<td>Total Field of View</td>
<td>93 m at 200 m [25 degrees]</td>
<td>93 m at 200 m [25 degrees]</td>
</tr>
<tr>
<td>Azimuth/Elevation Adjustment</td>
<td>0.5 MOA/click</td>
<td>0.5 MOA/click</td>
</tr>
<tr>
<td>Eye Relief</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Red Dot Size</td>
<td>Dot = 3 MOA</td>
<td>Dot = 3 MOA</td>
</tr>
<tr>
<td>[1 MOA = 30 mm at 100m]</td>
<td>Circle = 35 MOA</td>
<td>Circle = 35 MOA</td>
</tr>
<tr>
<td>LED colors</td>
<td>Red and Green selectable</td>
<td>Red and green selectable</td>
</tr>
<tr>
<td>Night vision</td>
<td>Compatible</td>
<td>Compatible</td>
</tr>
<tr>
<td>Brightness Adjustments</td>
<td>13 settings [1 off, 1 auto, 10 manual]</td>
<td>13 settings [1 off, 1 auto, 10 manual]</td>
</tr>
<tr>
<td>Magnification</td>
<td>1X</td>
<td>3X or 5X magnifier</td>
</tr>
<tr>
<td>Power Supply</td>
<td>1 type 123 3V lithium</td>
<td>1 type 123 3V lithium</td>
</tr>
<tr>
<td>Battery Life 700+ hr 700+ hr</td>
<td>700 hr</td>
<td>700 hr</td>
</tr>
<tr>
<td>Mounting</td>
<td>MIL-STD-1913 rail</td>
<td>MIL-STD-1913 rail</td>
</tr>
<tr>
<td>Operational Temperature</td>
<td>-41 °C to +71 °C</td>
<td>-41 °C to +71 °C</td>
</tr>
</tbody>
</table>

*Specifications subject to change without notice.*
Option: Larger Lens Body
(Model: UMS-L1X)

- IntelliOptix also offers a larger lens body for the UMS.
  - Lens size: 120mm x 70mm
  - Quick replacement
OPTION: Eyepiece Camera (EPC)  
(Model: UMS-EPC)

- Gunners operating light, medium and heavy caliber weapons installed on ground combat vehicles have a very limited protection against enemy fire.

- Typically a soldier exposes his upper-body in positioning behind a crew served weapon. Retrofitting a crew served weapon with the EPC allows Soldiers to remain in the relative safe protection of the vehicle.

- The EPC when coupled with a see-through lens, enables users to operate weapons normally, without placing themselves in harms way.

- Using a Helmet Mounted Display, shooters can quickly acquire targets, and deliver firepower with pinpoint accuracy enhancing shooters' accuracy and effectiveness.
OPTION: Rugged Camera  
(Model: UMS-CAM)

- Gunners operating crew-served weapons located on ground combat vehicles have a very limited protection against enemy fire.

- Typically, Soldiers expose their upper-body in positioning behind a crew served weapon. Retrofitting a crew served weapon with a bullet camera allows a soldier to remain in the relative safe protection of the vehicle. Like a remote weapon station, the UMS with a bullet cam provides soldiers the ability to acquire and engage targets while staying under an armored shield or behind protected armor.

- The UMS can be easily equipped with a bullet camera to convert the UMS into a corner shot machinegun or digital machinegun sight.

- The UMS–CAM improves shooter training, camera can be placed near targets allowing spotters/instructors to verify round impact.
Training Configuration
(Rugged Bullet Camera)

- Flat Screen-Instructor
- Hand Held DVR
- Head Up Display
- Hand Held Display
- Control Box
Training Configuration (Eye Piece Camera)

The MGS can be easily converted as a Digital Machine Gun Sight
Option: Control Box and Displays

Main Control Box
Model Number: (UMS-CBX)

It supplies power to the camera and display

Hand Held Display
Model Number: UMS-HHD

Hand Held DVR
Model Number: UMS-DVR

Flat Screen
Option: Back Mount and Rugged Case

Back Mount
Model: UMS-800

Rugged Case
Model: UMS-RUG
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