

RuBee®

**RuBee Wireless (IEEE 1902.1) Automatic
Identification Technology for Asset Visibility,
Condition Based Maintenance, and
Prognostic Health Management**

visible®



RuBee Technology

- *RuBee is Magnetic wireless technology, not blocked by steel, or liquids.*
- *No multipath reflections, +/- 6 inch geolocation, range 1 inch to 150 feet. Standard range is ~20 feet.*
- *Replaces Radio Frequency (RF) AIT technologies (RFID, LEB, NFC, Bluetooth, LP-WAN) in harsh steel, explosive, high security, military environments at cost competitive prices with sensor options.*
- *No Compromising Emanations. No Tempest, Target, or Eavesdropping risk (NNSA, DoE, DoD, and ADF Tested and Reviewed).*
- *Intrinsically Safe: HERO, HERF, NAVSEA reviewed and approved no risks; USAF -12 Approved Electric-Power Device; Human safe FDA reviewed Non-Significant Risk.*
- *5-25 Year field proven battery life. Meets NAVSEA 9310 1C safety standards.*



RuBee Tags



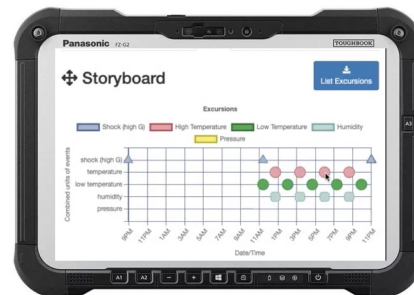
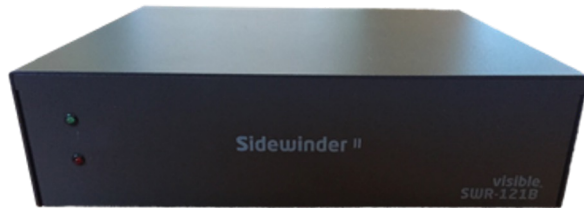
Field	Value	Bits
IP	12345678	32
SUBNET	34567	32
MAC	556789934	32
ATF	4556789A	64
MANF.	Colt	32
MODEL	M4	32
TYPE	SA9HG	32
Man Date	040106	16
SEC LEVEL	4	8
SHOTS	3245	32



Tags chosen to meet application needs: Long Life, Rugged, Multiple Sensor, Industrial, Military, Commercial



RuBee Readers



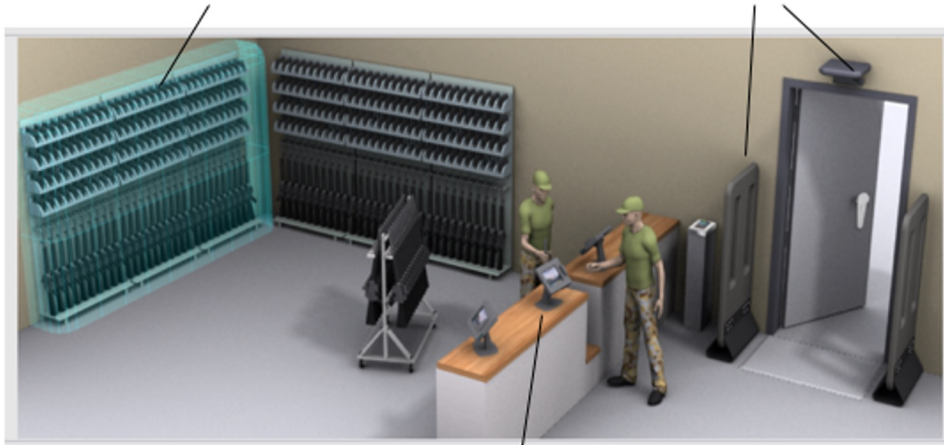
Readers chosen to meet application needs: Fixed, Remote, Handheld



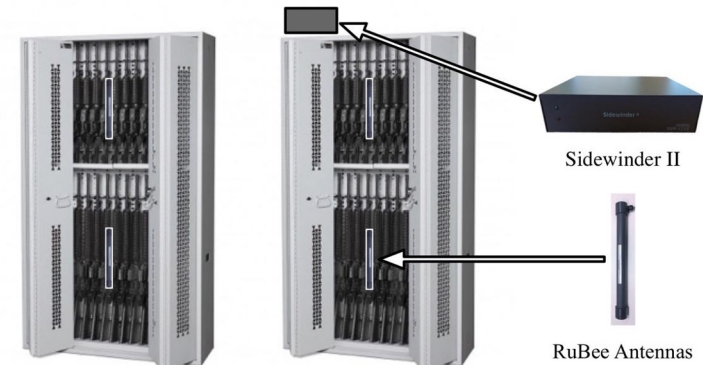
Armory2020

**Volumetric Smart Rack Reads - Full Automatic Audits
Weapons Do Not Have to be Rack-Removed**

99.9% Covert Exit-Entry Detection



Automatic Issuance and Accurate COP



Glock Tag



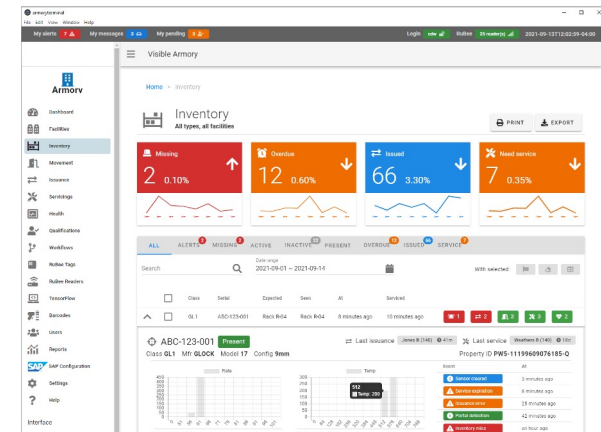
Sig Sauer Tag



Grip Carbine Tag



Lower Receiver Tag



US Department of Energy and Department of Interior Approved Audit with 100% Read Rates

Installed at Pantex Plant (DOE), Grand Coulee Dam (USBR), Nevada National Security Site (DOE), AFGSC Minot AFB (USAF), DOE HQ (DOE), Training Center Yorktown (USCG)



SuperSensor Tag

Prognostics and Health Management

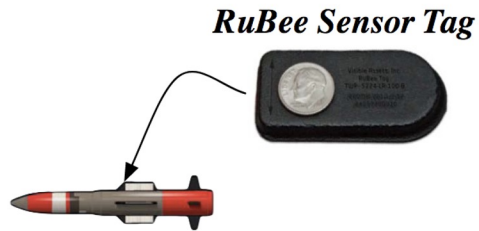


25 Year Battery Life



10/15 Year Battery Life

Factory
Air Transport



Ground Transport



Forward Location



RuBee Sensor Tag

Command and Control Center



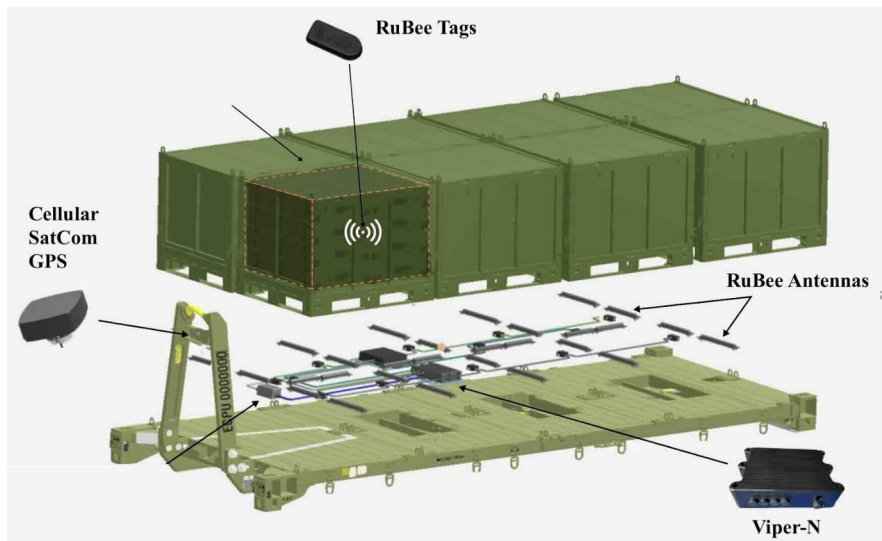
RuBee Sensor Tags with 10-25 year battery life

Sensors include Temperature, Humidity, Pressure, Shock, Vibration, Motion



In-Transit Visibility

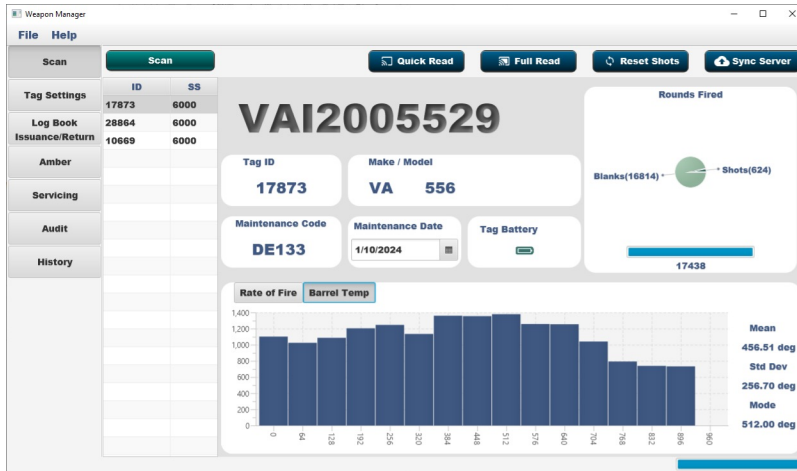
Phase IV Trials with Australian Defense Forces. UK MOD and US Army Trials Q1 2025



Viper-N Reader and Rod Antenna



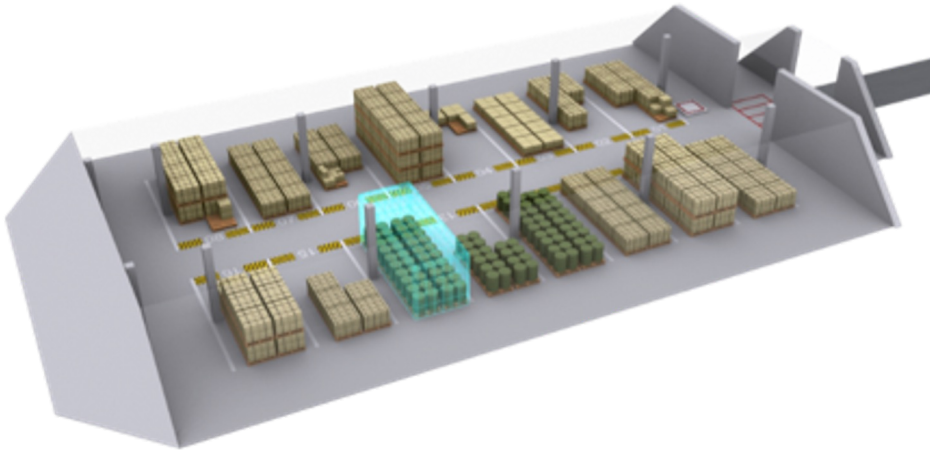
Allegro Shot Counter



*The core of a Condition Based Maintenance cost savings –
Replace barrels only when needed. Know where, when and how guns are used.*

Counts live and blank rounds, rate of fire, and calculated barrel temperature with 20 year battery life

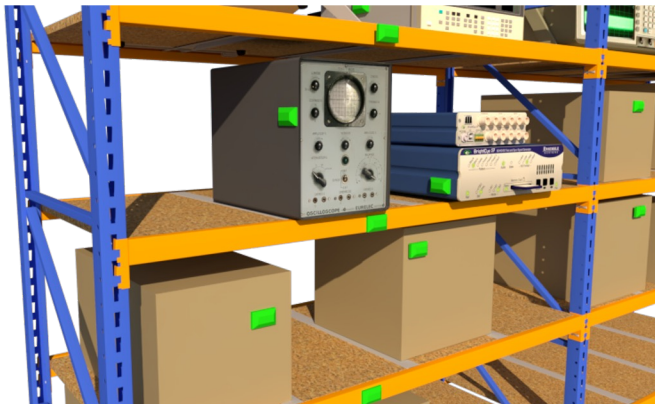
System Examples



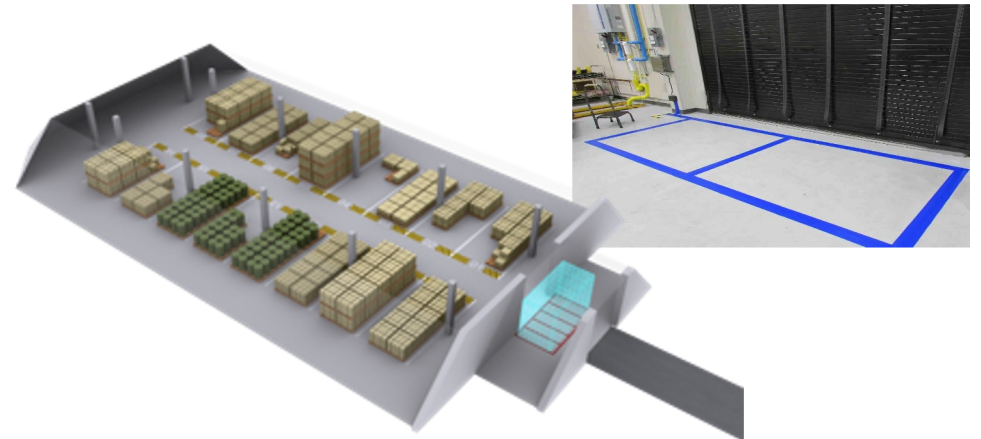
Automated Audits and Movements



Automated Audits In-Transit



Automated Audits in Warehouse



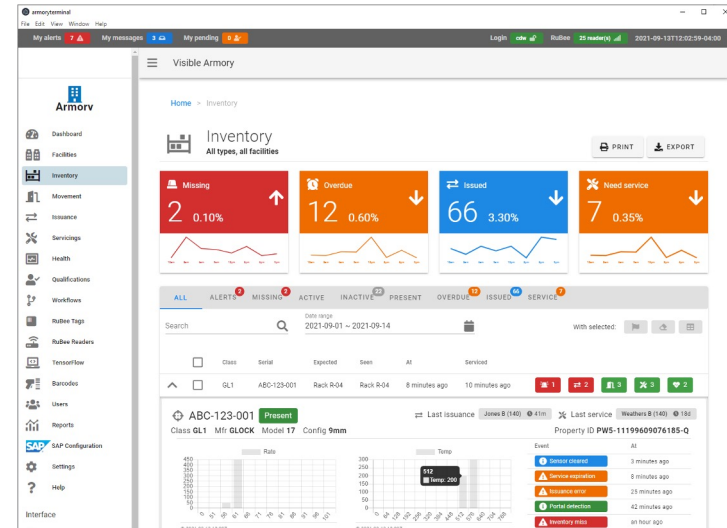
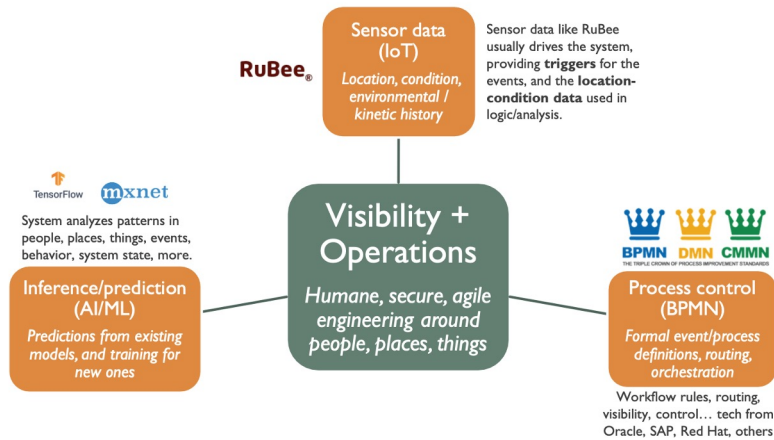
Asset Transfers with Direction of Travel

Asset Visibility for a Entire Site



RuBee.io Visibility Framework

Enterprise or Standalone Software



In-Transit Visibility



Storage



Asset Transfers

*Command and Control of Asset Visibility and
Prognostic Health Management*

