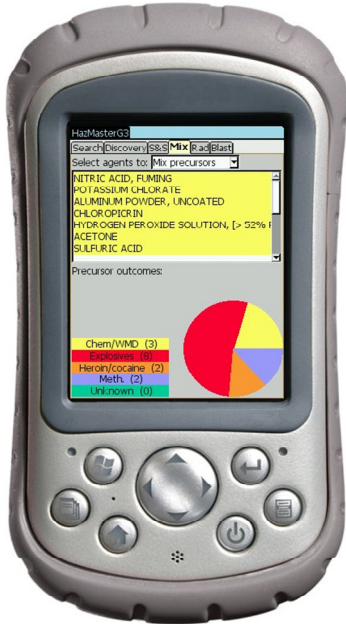# HazMasterG3®

Comprehensive IED and CBRNE Decision Support

HazMasterG3® delivers unmatched capability across the spectrum of counter-IED and Home Made Explosives (HME) needs for both civilian and military scenarios:

MILSPEC 810F model shown
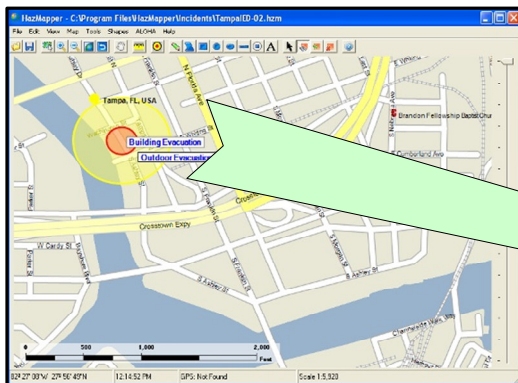(other configurations available)

- Mix ingredients to identify probable HME products and formulations.
- Virtually mix agents to identify probable dual-use precursor outcomes.
- Virtually mix chemicals to identify explosions, toxic gas emissions and many other hazardous chemical reactions.
- RCIED threat range calculator.
- Improvised trigger identification for over 11,000 components.
- Detonator ID for 7,000+ varieties of commercial/military detonators.
- Calculate standoff distances and blast effects consequences for simple or complex real-world threats using civilian or military guidance.
- Identify dual-use precursors for the production of HME and explosives, chem-warfare/WMD, cocaine, heroin and methamphetamines.
- Identify typical industrial uses and processes that utilize HME and explosives precursors.
- X-Ray, disrupter operations, fuse, shock tube and electronics calculators.
- Breaching/disposal ops calculator for tactical operations.
- Comprehensive response guidance: protective clothing, respirators, exposure hazards, isolation zones, first aid and much more for complex IED scenarios for 130,000+ chemical, biological and radiological threats.
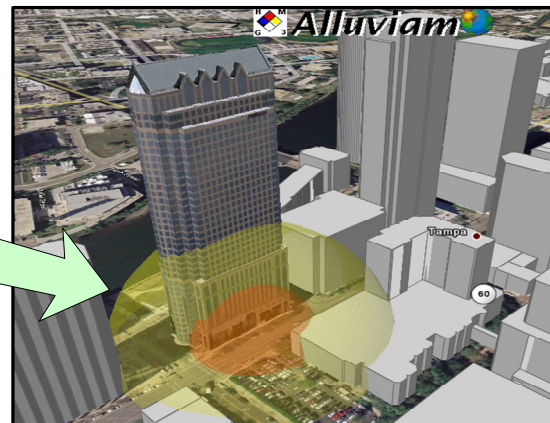- Clandestine lab and chemical formula identification tools.

Patented Technology   **US DHS Certified and Designated Anti-Terrorism Technology**

Desktop options provide unmatched situational awareness

- Works with HazMapper™, to display CBRNE threats, ALOHA and HPAC plumes and other GIS overlays on GPS-based street/satellite maps with integrated Google Earth imagery support.
- View threats on pre-loaded premium street maps or custom maps to meet your tactical needs.
- Intuitive, easy-to-use suite of powerful on-scene tools for quick site assessments and measurements.
- Drawing tools allows an on-scene commander to quickly sketch out ingress/egress routes, road closings and high priority evacuation targets.
- Interoperability with ESRI/ArcView assures you can immediately share your tactical overlays with other emergency operation centers.

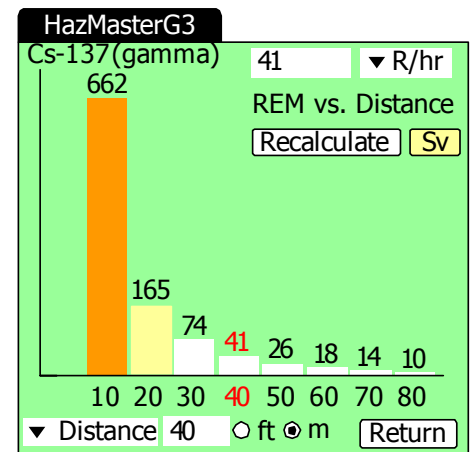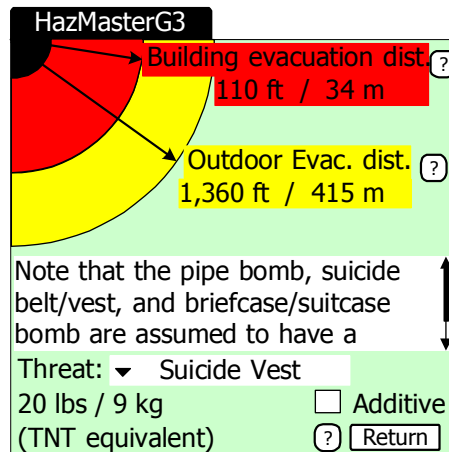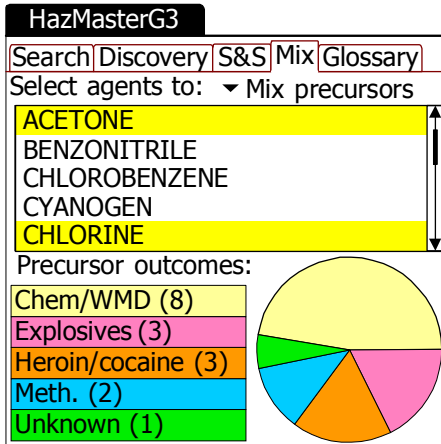*Pipe Bomb IED modeled in HazMasterG3, placed in HazMapper and injected into Google Earth*

Alluviam LLC

Support/info: (510) 315-1974 or online   Email: info@alluviam.com   www.alluviam.com

HazMasterG3®

WMD / Military / Radiological / Biological / Nuclear Response

- HazMasterG3® is the only system capable of identifying unknowns, whether accidental or terrorism.
- Integrated Military Exposure Guidelines (MEGs) for contaminants and CW agents in air, water, and soil.
- Improvised Nuclear Device (IND) stand-off distances, stay-times and fatality calculator.
- Only DoD COE/JTA compliant mobile CBRNE decision support system available.
- Atomic mass, activity, emissions, decay chains, industrial uses, and risk levels.
- Isolation distance/dose/fallout/half-life graphical advisories with support for survey equipment inputs.
- Dosimetric specific signs/symptoms of radiological exposure, first aid and treatment recommendations.
- Comprehensive guidance for a broad range of bio-warfare and bio-terror agents.
- Sensitive site exploitation support for chemical formulations and lab identification.

Screen 1 — HazMasterG3

Search | Discovery | S&S | Mix | Glossary
Select agents to: ▼ Mix precursors
- ACETONE
- BENZONITRILE
- CHLOROBENZENE
- CYANOGEN
- CHLORINE

Precursor outcomes:
- Chem/WMD (8)
- Explosives (3)
- Heroin/cocaine (3)
- Meth. (2)
- Unknown (1)

Screen 2 — HazMasterG3

Building evacuation dist. (?)
110 ft / 34 m

Outdoor Evac. dist. (?)
1,360 ft / 415 m

Note that the pipe bomb, suicide belt/vest, and briefcase/suitcase bomb are assumed to have a
Threat: ▼ Suicide Vest
20 lbs / 9 kg ☐ Additive
(TNT equivalent) (?) [Return]

Screen 3 — HazMasterG3

Cs-137 (gamma) | 41 | ▼ R/hr
662
REM vs. Distance
[Recalculate] [Sv]
165
74
41 26 18 14 10
10 20 30 40 50 60 70 80
▼ Distance 40 ○ ft ◉ m [Return]

Compatibility

- International/maritime operations: units of measure in both US and international units; decodes EAC, HIN, APP, PG and UN Hazard codes; trade names in German, English, French, Spanish, Italian and Dutch.
- Wirelessly communicate pre-plans or response guidance in HazMasterG3® to other systems.
- OASIS / CAP 1.1 Reporting and messaging interoperability.
- Only RAE approved system with support for RAE 9.8, 10.6 and 11.7 eV PIDs.
- NIMS and ICS compatible, plus inject data into USMTF or other civilian reporting systems.
- Tier 2 preplan support for 60,000+ facilities nationwide.
- Train once, deploy anywhere (cell phones, handhelds, vehicle mounts, laptops/desktops -- full capabilities).

Bonus features

- Load and share pre-plans from libraries of existing pre-plans, or customize them for your own scenarios.
- Time-stamped, high-resolution accountability, key for pre- and post-event training and evidentiary uses.
- Extensive unit conversion capability.
- Glossary of commonly used HazMat / CBRNE terms and phrases.
- Consistent and immediate access to ERG 2008, EMS signs/symptoms, first-aid and decon recommendations.
- HazMasterG3® is the only decision support system capable of identifying unknown chemical and radiological agents -- critical for terrorism response.
- More hazardous agents, response guidance and accredited SOPs than any other mobile system.
- Reach back capability for 2,000,000+ materials/trade names.
- Customization – add your own forms, checklists or SOPs to the system, or link them to specific agents.
- Works with HazMapper™, to display CBRNE threats, ALOHA and HPAC plumes and other GIS overlays on GPS-based street/satellite maps with integrated Google Earth imagery support.

Only HazMasterG3 work with...
Windows Mobile | Pocket PC | Microsoft Windows | Palm | Linux | Java | Apple | symbian | BlackBerry