HazMasterG3®
State of the Art HazMat / CBRNE / IED Response
Patent Pending Technology

HazMasterG3® version 10 integrates 117,000+ chemical, biological, radiological agents, trade names, explosives and IEDs with extensive threat identification capabilities into a fast and easy to use decision support system. HazMasterG3's capabilities include advanced tools for bomb technicians, Tier 2 pre-plan support for 60,000+ facilities nationwide for fire, HAZMAT and USAR needs, modeling for precursor outcomes, chemical reactions, and advanced agent-identification capabilities for a broad range of unknown threats - key for terrorism response. HazMasterG3 delivers unrivaled analytical tools and accredited guidance to all emergency responders - from planning through response, in an integrated, extremely fast and simple to use system.

MILSPEC 810F model shown
(other configurations available)

U.S. Department of Homeland Security Certified · Designated Anti-Terrorism Technology

HazMasterG3® delivers critical response guidance for 117,000+ chemical agents (TICs, TIMs, CW agents), bio-weapon and bio-terror agents, and nearly 4X more radioactive isotopes as other legacy systems.

- ID broad range of agents via observed physical properties. Patent Pending signature library of 780,000+ attributes identifies materials in <3 seconds.
- ID unknown agents via observed medical signs and symptoms.
- ID chemical reactions. Virtually mix agents, model their chemical reactions.
- ID dual-use precursors; mix them and instantly model probable outcomes.
- ID isotopes using HazMasterG3®'s advanced nuclide identification capability, when used in conjunction with supported survey equipment.
- ID complex IED threats and provide immediate on-scene response guidance.
- ID 7,000+ varieties of commercial/military detonators.
- ID road, rail, and intermodal container hazards.
- 200+ fields containing physical properties, working allowances, reactivity, AEGLs, MEGs, LOCs, etc. makes HazMasterG3® the most comprehensive mobile Chemical Agent Risk Assessment Tool (CARAT™) available.
- First aid recommendations for chemical, biological, and radiological events, incorporating extensive, government accredited response guidance.
- Agent-specific chemical protective clothing, respirator recommendations, graphical isolation guidance, health, reactivity hazards and much more.
- Tactical Tier 2 plan integration for 60,000+ facilities nationwide.

Law Enforcement / Forensics
- HazMasterG3® lets you virtually mix chemical agents to model probable reactions.
- Instantly ID an extremely broad range of dual-use precursors.
- Mix unlimited agents to predict the most probable dual-use precursor outcomes.
- Evidentiary-quality, date/time stamped accountability of all actions/decisions.

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.
- Most extensive Improvised Explosive Device (IED) stand-off distances and evacuation guidance available.
- 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.
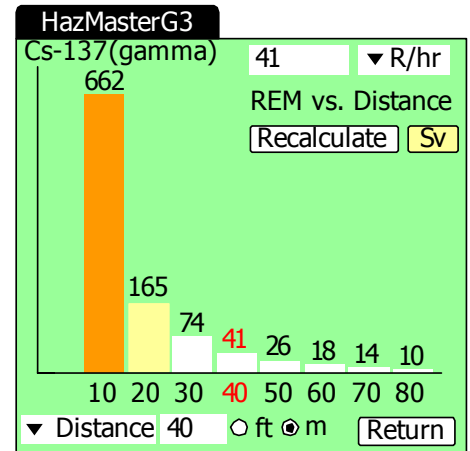- Extensive target package capabilities

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HazMasterG3®

Comprehensive IED Response Capabilities

- 160+ IEDs and explosives – 3X more than other systems; easily handles complex IED threat scenarios, far surpassing other military or civilian tactical decision aids.
- Mix agents to model explosive reactions, probable dual-use precursor outcomes, protective actions and extensive response procedures for traditional explosives and so-called chemical bombs.
- Blast effects consequences – for both planning and on-scene forensics.
- X-Ray and Disrupter setup working aides and calculators.
- ID 7,000+ varieties of commercial/military detonators with integrated visual reference aids.

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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)

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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]

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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.
- Seamless integration with FieldSoft's AIMSonScene™ Incident Command Software.
- 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.
- DoD COE/JTA compliant solution; can run on any platform that supports HPAC 4.0 or later.
- 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 2004, 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.
- Lower cost of deployment and ownership than other legacy systems.
- More hazardous agents, response guidance and accredited SOPs than any other mobile system.
- Reach back capability for 2,000,000+ materials/trade names, advanced life support, RTECS, HSDB and more.
- Customization – add your own forms, checklists or SOPs to the system, or link them to specific agents.
- Nearly 4X more radiological agents than any other mobile system.
- 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...

Pocket PC | Microsoft® Windows | palm | (Linux) | Java Sun Microsystems | Apple | symbian