

HazMasterG3[®]

State of the Art HazMat / CBRNE / IED Response

Patent Pending Technology

HazMasterG3[®] version 9 seamlessly integrates 96,000+ chemical, biological, radiological agents, explosives and IEDs with critical agent-discovery capabilities into a fast and easy to use decision support system. The best emergency response decision aid as evaluated by multiple independent evaluations further advances its leadership with isotope identification, complex IED threat modeling, detonator identification and additional integrated response guidance, extending its lead as the only system that can identify an extremely broad range of unknown threats - key for terrorism response. Extremely fast, and simple to use, it is the only truly mobile system, with full interoperability on handhelds, cell phones and laptops/desktops.



Ultra-rugged HMG3-RCN shown
(Mil-810F compliant)
Other options available

HazMasterG3[®] delivers critical response guidance for 96,000+ 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+ 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.
- Interactive NFPA704 classification identifier, ERG2004, NIOSH & others.

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 / 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 and fatality calculator.
- Only DoD COE/JTA compliant mobile CBRNE decision support system available.
- Atomic mass, activity, emissions, decay chains, industrial uses, and risk level.
- Isolation distance/dose/fallout/half-life graphical advisories with support for survey equipment inputs.
- Complete exposure limits for each isotope's retention classes.
- Dosimetric specific signs/symptoms of radiological exposure, first aid and treatment recommendations.

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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.
- Unique support for breaching requirements.
- ID 7,000+ commercial/military detonators based on physical evidence (shell type, leg wires etc.)

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)

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)

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Cs-137 (gamma) 662 R/hr

REM vs. Distance

Distance	10	20	30	40	50	60	70	80
Dose Rate	662	165	74	41	26	18	14	10

▼ Distance 10 ft m

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 FDonScene[™] 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 on GPS-based street/satellite maps.

Only HazMasterG3 work with...

