

Colorimetric

PRODUCT NAME

HazCat 2.0 Pro

TECHNOLOGY CATEGORY

Colorimetric;

Haztech Systems, Inc.

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Model Number	KT2011
Synopsis	HazCat® 2.0 Pro detects and screens all WMD agents and selected industrial chemicals. The Pro kit is a combination of multiple other HazCat kits and detects radiological, chemical, and biological threats including explosives and narcotics.
Category	Chemical; Biological; Radiological/Nuclear; Explosives;
Detection Method	Colorimetric;
Detection Principle	Colorimetric;
Application	Emergency Response; Laboratory Analysis; Screening; Bulk Analysis; Survey Meter;
Type	Colorimetric
Availability	Commercially available
Readiness Level	9
Market Entry Date	1986
User Feedback Sources	Not Specified
Support Documents	Not Specified

Operational Parameters

Tested for Chemical Agents	G-series, V-series, GV-series, DC, DF, QL, chlorosarin, chlorosaman, carbamates, Sulfur based (HD, T, Q), Arsenic based (L, PD, MD, ED), Nitrogen based (HN1, HN2, HN3), key precursors
Tested for ITF25TICTIMs	Yes
Tested For Explosives	Military and common explosives
Tested For Narcotics	Opiates (morphine, codeine, heroin), brown heroin, black tar, demerol, LSD, Amphetamines, methamphetamine, MDMA, marijuana, hashish, hash oil, cocaine, crack, PCP, Ephedrine
Other Chemical Targets	Illicit drugs, radiological, and BWs
Tested For Biological Agents	Anthrax, Ricin, Botulinum Toxin, plague, brucella, tularemia, orthopox, SEB
Other Biological Targets	amino acids, pesticides
Radiological Targets	Yes
Library Size	Identifies over 1,000 chemicals
Customize For New Targets	Not Applicable
Sample Introduction	Solid; Liquid
Sensitivity Detection Limits	ppm; mg

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Known Interferents Inhibitors	May false alarm for nerve agents if exposed to commercial organophosphate pesticides
False Positive Rates	Not Specified
False Negative Rates	Not Specified
Start-Up Time From Cold Start To Sample Ready	15 minutes
Response Time Sample Application To Output	< 30 minutes
Total Run Time	Not Specified
Alarm Capability	Not Applicable
Software Control	Not Applicable
Other Operational Parameters	Not Applicable

Physical Parameters

Dimensions	21 x 15 x 15 in (53 x 38 x 38 cm)
Weight	26 lbs (11.8 kg)
Power Requirements	Rechargeable battery (2 D cell or AC. Also requires 9 V battery for radiation monitor).
Noise Produced	Not Applicable

Logistical Parameters

Transportability	Person-Portable
Durability	Durable; Watertight protective pelican case
Operating Conditions	0 to 38°C (32 to 100°F)
Consumables	Disposable test tubes, pipettes, scoops, test strips, slides, reagents
Solvents Reagents	Yes
Calibration Schedule	Not Applicable
Suggested Routine Maintenance	Expiration dates of reagents should be periodically checked. Replace reagents as required. (See Shelf Life below.)
Shelf Life	Most reagents have an indefinite shelf life. Six reagents are considered perishable and must be replaced annually.
Unit Cost	\$6,280
Expected Operational Life	Reagent shelf life
Available Accessories	Hardware, cases, additional solvents
Data Analysis Support Equipment	Not Applicable
Data File Type Format	Not Applicable
Communications Interface	Not Applicable
Maintenance Cost	\$500 or less/year

Training, Shipping, And Other Information

Operator Skills Required	Non-technical background; microscopy skills desirable.
Training Available	4-day HazCat® workshop or 1-day refresher course
Manuals Available	User manual and MSDS manual, flow charts, and field sheet packets
Reachback Service	Yes, 24/7
Warranties	1 year parts and labor
ITAR Export Regulations	Not Specified
IATA Shipping Restrictions	Title 29 CFR 1910.120 Req. for ID, IATA shipping confirmation. Exempt-level quantities of reagents
Approved Vendors	Manufacturer only