

# WMD Detection & Identification Equipment

What they do	M-256A 1 Detector Kit		ICAM <sup>®</sup>		ACADA		RAPID <sup>®</sup>		Hand Held Assays		APD 2000 <sup>®</sup>		HapSite <sup>®</sup>		Hazmat ID <sup>®</sup>		HazCat WMD <sup>®</sup> Identification System		HazCat <sup>®</sup> SRTAS <sup>®</sup>			
	M8/M9 Paper	Vapors Only	Gases Only	Gases Only	Gases Only	Gases Only	Gases Only	Gases Only	No	No	Yes	Yes	Yes	Yes	No	No	No*	No	No	No		
Gases & Vapors	No	Vapors Only	Gases Only	Gases Only	Gases Only	No	No	No	No	Yes	Yes	Yes	Yes	No	No	No*	No	No	No	No		
Solid Materials	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Extremely Limited	Limited	Limited	Limited	Limited	Yes	Yes	Yes	Yes	Yes		
Liquid Materials	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Very Limited	Limited	Limited	Limited	Limited	Yes	Yes	Yes	Yes	Yes		
Nerve Agents	Yes	Vapors Only	Nerve (G) Only	Nerve (G) Only	Nerve (G) Only	No	No	No	No	No	Yes*	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Blister Agents	Yes	Vapors Only	Mustard (HD) Only	Mustard (HD) Only	Mustard (HD) Only	No	No	No	No	No	Yes*	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Blood Agents	No	Vapors Only	No	No	No	No	No	No	No	No	Yes*	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Choking/Vomiting Agents	No	No	No	No	No	No	No	No	No	No	Yes*	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Urticants	No	No	No	No	No	No	No	No	No	No	Yes*	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Enhanced Pesticides	No	No	No	No	No	No	No	No	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Other Poisonous Materials	No	No	No	No	No	No	No	No	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Reactive & Hazardous Materials	No	No	No	No	No	No	No	No	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Biological Warfare Agents	No	No	No	No	No	Yes	Yes	Yes	Limited	Limited	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Other Pathogens of Concern	No	No	No	No	No	Unknown	Unknown	Unknown	Limited	Limited	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Pathogens Contained in Mixtures	No	No	No	No	No	Unknown	Unknown	Unknown	Limited	Limited	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Toxins	No	No	No	No	No	No	No	No	Very Limited	Very Limited	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Harmless Pathogens	No	No	No	No	No	Unknown	Unknown	Unknown	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Radiological Materials	No	No	No	No	No	No	No	No	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
False Positives/Negatives	Abundant	Unknown	Abundant	Unknown	Unknown	Unknown	Unknown	Unknown	Possible False Negatives	Possible False Negatives	Abundant	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Non Hazardous Materials	No	No	No	No	No	No	No	No	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Report and Image Capture	No	No	No	No	No	No	No	No	No	No	No	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Yes	Yes	Yes	Yes	Yes		
Real Time Expert Review	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes		
Sampling Equipment Included	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes		
Ease of Use	Very Easy	Easy	Somewhat Difficult	Somewhat Difficult	Somewhat Difficult	Extremely Complex	Extremely Complex	Extremely Complex	Very Easy	Very Easy	Easy	Extremely Complex	Extremely Complex	Critical	Critical	Easy	Easy	Easy	Easy	Easy		
Calibration	None	None	Required	Required	Required	Unknown	Unknown	Unknown	None	None	Required	Required	Required	Required	Required	None	None	None	None	None		
Worldwide Voice & Internet Link	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No		
Cost	\$	\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$\$\$	\$\$\$\$\$	\$\$\$\$\$	\$	\$	\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$	
Comprehensive Substance Identification	No	No	No	No	No	No	No	No	No*	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes		
Comments	Limited to liquids only. Many common materials will cause false positives. M8 & M9 paper is carcinogenic and should not be allowed to touch unprotected skin.	Limited to vapor detection only.	Limited to gases only. Cannot detect H & G Agents simultaneously, must be switched manually.	Contains radiological source.	Limited to gases only. Contains radiological source. License required.	Cannot detect toxins. Identification process very tedious & complex. Common materials produce interferences.	Limited to a handful of pathogens & toxins. "Common hook effect" can produce false negative results.	Extremely high false positive rate > 50%. Not practical for civilian use.	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Extremely high false positive rate > 50%. Not practical for civilian use.	Extremely high false positive rate > 50%. Not practical for civilian use.	Extremely high false positive rate > 50%. Not practical for civilian use.	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Not suitable for WMD detection & identification	Designed to detect and identify chemical, biological and toxic weapons and their precursors. *With the exception of WWII vintage chlorine gas and cyanogen, modern chemical & biological weapons are not gases.