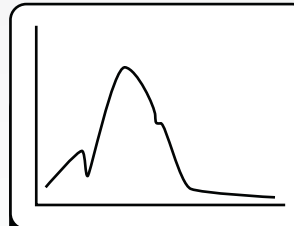


HIGH DEFINITION SIGNATURES

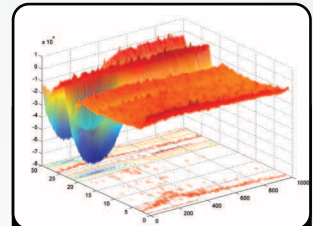
The AccuSense High Definition Signature takes the traditional X,Y axis view of a chemical signature and expands it into a robust three dimensional data set that can precisely identify and quantify the hyper separated detection signal from the AccuSense instrument.

AccuSense High Definition (HD) Signatures are created using a database comparison schema similar to a fingerprint identification process. SEER uses a Cray™ supercomputer to produce a very complex neural network algorithm that is trained to identify specific chemical compounds. The result is a high definition signature that maximizes certainty of identity and quantification and removes any opportunity for false results.

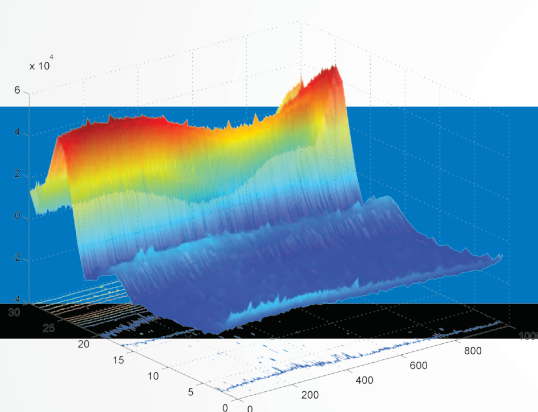
It is the matching of the hyper separated detection signal from the AccuSense instrument to an AccuSense HD Signature that produces precision analysis results.



Traditional Chemical Signature
A pattern common to particular molecule

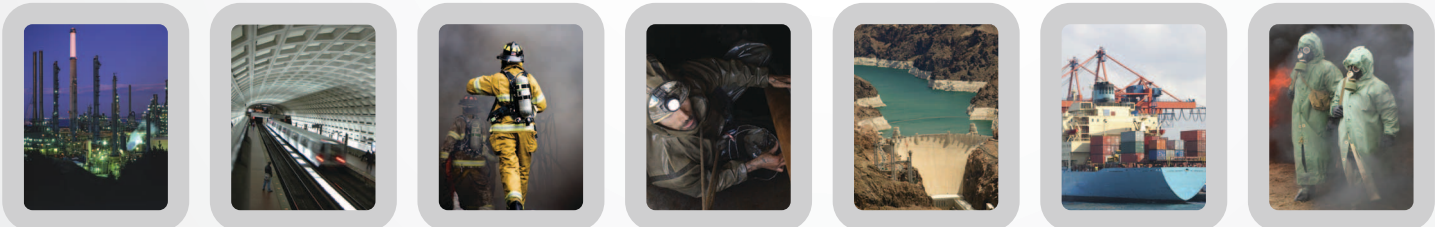


AccuSense HD Signature
Identify - Quantify with precision



AccuSense®

HIGH DEFINITION SIGNATURES



SEERID Decision Software



SEERID includes the AccuSense HD Signature Database and the AccuSense Graphical User Interface which displays analysis results in the context of NIOSH IDLH concentrations.

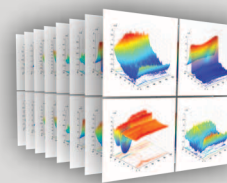
SEERID resides on a laptop PC remote from the AccuSense instrument. AccuSense signal data is communicated wirelessly or via hard wire to SEERID software on the laptop PC.

AccuSense HD Signature PC Resident Database



AccuSense Release One – Version 1.0 has a database of twenty-one AccuSense HD Signatures resident on the SEERID PC and available for field detection. Subsequent versions of AccuSense Release One will have an expanded number of signatures available for use in a Resident Database and offer a customized choice of which HD Signatures are deployed in the Resident Database.

AccuSense HD Signature Catalog



SEER has evaluated over 100 chemicals for inclusion in the AccuSense HD Signature database. The HD Signature Catalog is the source for customized Resident SEERID PC Signature Databases. SEER engineering will evaluate any specific chemical requested for inclusion in a Resident Database.

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AccuSense HD Signature PC Resident Database

High Definition Signatures V1

1,3 Butadiene	Carbon Tetrachloride	Ethylene Oxide	Sulfur Dioxide
2 Butanone (MEK)	Chloroform	Ethyl Acetate	Tetrachloroethane
Acetone	Chloromethane	Hexane	Tetrachloroethylene
Acrylonitrile	Dichlorofluoromethane	Methyl Bromide	
Benzene	Dichloromethane	Methyl Chloroformate	
Butane	Diethyl Ether	Phosgene	



AccuSense HD Signature Catalog

High Definition Signatures V1

1,1 Dichloroethane	Carbon Disulfide	Furan	Propanal
1,1 Difluoroethane	Carbon Tetrachloride	Hexane	Propane
1,2 Butylene Oxide	Carbonyl Sulfide	Hexaldehyde	Propionitrile
1,2 Dichloropropane	Chlorodifluoromethane	Hydrogen Selenide	Propylene Oxide
1,2 Dimethylhydrazine	Chloroethane	Hydrogen Telluride	Silicon Tetrachloride
1,3 Butadiene	Chloromethane	Isobutane	Sulfur Dioxide
2 - Chloropropane	Chloroform	Mercaptobutane	Sulfur Hexafluoride
2,2,4 Trimethylpentane	Chloroprene	Methacrylonitrile	Sulfuryl Fluoride
2,3 Butanedione	cis 1,2 Dichloroethylene	Methyl Acrylate	Tert-Butyl Isocyanate
2 Butanone (MEK)	Cyclo-hexane	Methyl Bromide	Tert-Butyl Mercaptan
Acetone	Dibromomethane	Methyl Chloroformate	Tetrachloroethane
Acrolein (Propenal)	Dichlorofluoromethane	Methyl Isocyanate	Tetrachloroethylene
Acrylonitrile	Dichloromethane	Methyl Mercaptan	Tetrahydrofuran
Allylchloride	Diethyl Ether	Methyl T-Butyl Ether	trans 1,2 Dichloroethylene
Benzene	Ethanthiol	n-Butane	Trichloroethylene
Bromochloromethane	Ethyl Acetate	n-Heptane	Trichlorofluoromethane
Bromodichloromethane	Ethyl Acrylate	Nitrogen Dioxide	Trichlorotrifluoroethane
Bromomethane	Ethyl Formate	Nitromethane	Vinyl Acetate
Bromotrifluoromethane	Ethylphosphonic dichloride	n-Pentane	Vinyl Bromide
Butane	Ethylene Oxide	Phosgene	Vinyl Chloride