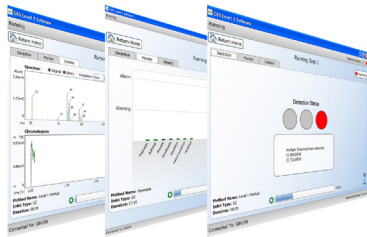




GRIFFIN™ 410

Lab quality, mobile GC/MS that anyone can use

The FLIR Griffin 400-series GC/MS (Gas Chromatograph / Mass Spectrometer) products provide lab-quality chemical identification in a field-ready package. Each Griffin GC/MS model is equipped with a rugged, internal shock isolation system that is tested to rigorous MIL-STD-810G standards. They are built to operate in mobile labs, reconnaissance vehicles, deployable lab containers, and other portable platforms. Hassle-free, interchangeable sampling tools differentiate each GC/MS model. The Griffin 410 model, like the other 400-series products, contains an integrated standard injection port. It is the same injector found on typical laboratory-based GC/MS systems and accepts revolutionary sample introduction tools like the PSI-Probe™, without sacrificing the ability to perform more traditional techniques like syringe, SPME fiber, headspace, and autosampler injections. Griffin GC/MS systems accurately detect and identify explosives, drugs, CWAs, TICs, environmental pollutants, and other chemicals. The simplified user interface gives field operators and scientists quick and accurate answers. The Griffin 400-series products preserve sample integrity, eliminate the expense of shipping unwanted samples, and lead to real-time, actionable countermeasures that protect public safety.



CUSTOM APPLICATIONS

- Environmental monitoring and emergency response
- Forensic investigation

FEATURES & BENEFITS

- Quick and simple to use, from field operator to scientist
- Extremely low cost-per-sample
- Continuous air monitoring with real-time response
- Pre-loaded test methods with wizard for fast field operation
- Accurate, comprehensive GriffinLib™ chemical library
- Gold-standard identification with MS/MS confirmation

GRIFFIN 410

TECHNOLOGY	
Technology	GC/MS; fully integrated low thermal mass gas chromatograph (LTM-GC) and MS/MS-capable ion trap mass analyzer
Mass Range / Scan Rate	35-425 m/z; up to 10,000 m/z per second @ 20 points per m/z
Ionization Type	Internal electron ionization (EI)
Detector	Conversion dynode electron multiplier
LTM-GC Column	Standard VB-35MS (15M x .25mm x .25um); others available; programmable 40 to 300 °C
Calibrant	Onboard FC-43 (Perfluorotributylamine)
Carrier Gas	Connection for external gas source (choice of He or H ₂); gas available from many vendors; H ₂ generator available
SAMPLING & ANALYSIS	
Sample Introduction	Split/splitless injector accepts: - Direct syringe injection (1 syringe included) - SPME fiber (optional) - Manual headspace sampler (optional) - Autosampler (optional) - PSI-Probe™ thermal separation via TAG™ (optional) - PSI-Probe thermal separation via GERSTEL-Twister® (optional)
Sample Phase	Solid and liquid
Threats	Detects and identifies explosives, narcotics, CWAs, TICs, environmental pollutants, and other chemicals
Sampling & Analysis	Full identification in 4-15 mins for most chemicals
SYSTEM INTERFACE	
Display & Alerts	Full automation by connection with computer
Communication	Ethernet connection TCP/IP; remote operation and diagnostics
Data Storage	Data automatically stored on supplied laptop (500 gb)
Simplified User Interface	Griffin System Software (GSS); GriffinLib, NIST and AMDIS mass spectral libraries included; capable of user-defined library
Training Requirements	1-2 days depending on level of training desired; Operator, Developer, and Full System certifications available
POWER	
Input Voltage	100–240 VAC; 24 VDC (+/- 5%, 25 A, 600 W)
Cold Start Time	<30 mins (includes automatic tuning/calibration)
ENVIRONMENTAL	
Operating Temp / Humidity	41 to 104 °F (5 to 40 °C); <85% relative humidity
Storage Temp	-13 to 131 °F (-25 to 55 °C)
PHYSICAL FEATURES	
Dimensions (L x W x H)	19.7 x 20.3 x 17.8 in (50.0 x 51.6 x 45.2 cm)
Weight	80.5 lbs (36.5 kg)
Enclosure & Protection	Rugged, internal shock mounting system; integrated vacuum system contains mini turbomolecular pump and quad diaphragm; no external shock table or vacuum system required

www.flir.com
NASDAQ: FLIR

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