

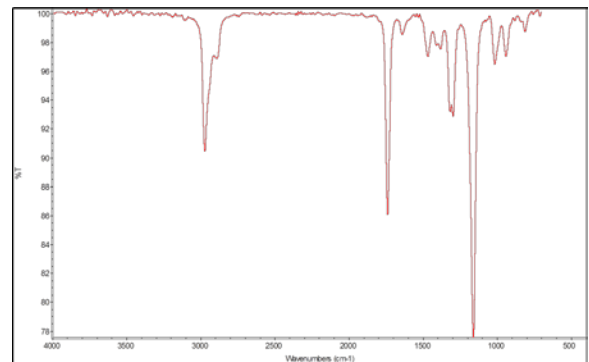
GC/FTIR Accessory – Combining GC Separation with Identification Power of FTIR



The PIKE Technologies GC/FTIR Accessory is an interface between the GC and the FTIR instruments. When fully installed, the sample pathway from the end of the GC column is diverted to a heated gas cell and back to the GC detector through the use of temperature controlled inert transfer lines. To maximize sensitivity, the light pipe is gold coated and the accessory includes an on-board MCT detector.

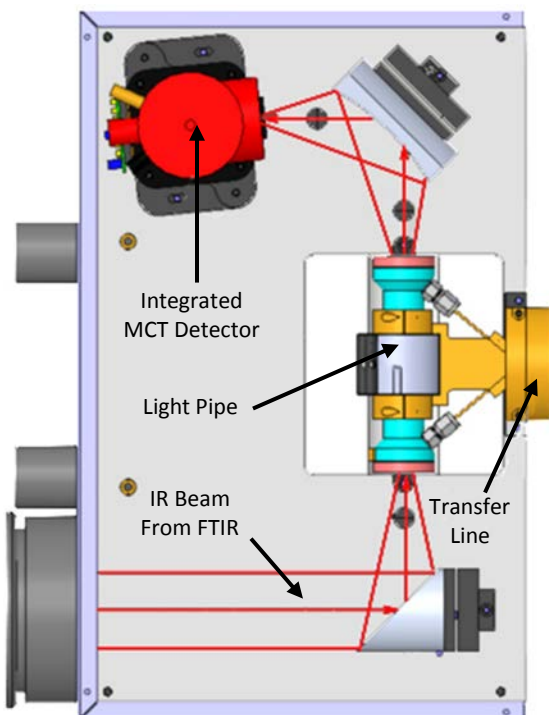
FEATURES OF GC/FTIR ACCESSORY

- *Isomer identification*
- *Secondary confirmation of GC/MS results*
- *120 mm IR beam pathlength for maximized FTIR sensitivity*
- *Temperature control settable up to 300°C for flow cell and transfer line*
- *Purgeable module*



GC/FTIR data for IBMA

Coupling gas chromatography with infrared spectroscopy provides an effective method of separating compounds as the sample moves through the GC column and identifying these compounds by spectroscopy. GC/FTIR is a preferred method for identifying isomers, which may be incorrectly identified using GC/MS. In addition, GC/FTIR may be used as a complementary analytical technique to confirm GC/MS results. Typical applications of GC/FTIR include the analysis of drugs, fragrances, and other organic compounds found in mixtures.



Optical geometry of the GC/FTIR Accessory

GC/FTIR ACCESSORY SPECIFICATIONS

Dimensions (W x D x H)	51 cm x 45 cm x 27 cm
Weight	16 kg
FTIR Placement	Right or Left Side
Beam Height	Specific for FTIR
Detector Option	Yes
Purge	Purgeable
Light Pipe Pathlength	120 mm
Maximum Temperature	300°C

Note: GC/FTIR width dimension includes transfer line length.

ORDERING INFORMATION

GC/FTIR Base Accessory (must select one, insert spectrometer model for XX)

PART NUMBER	DESCRIPTION
140-10XXR	GC/FTIR Accessory, Right Side
140-10XXL	GC/FTIR Accessory, Left Side

Note: GC/FTIR Accessory includes optics, mounting hardware, narrow-band MCT detector and detector electronics, heated gas cell and temperature controller.

GC/FTIR Transfer Line (must select transfer line)

PART NUMBER	DESCRIPTION
115-0050	GC/FTIR Accessory Transfer Line

GC/FTIR Accessory Replacement Parts

PART NUMBER	DESCRIPTION
160-1135	KBr Window, 13 mm x 2 mm
160-1008	KBr Window, 13 mm x 2 mm (6 pack)
140-2001	GC Graphite Window Gasket
140-2010	Ferrule for 0.23 mm coupling (6 pack)
140-2020	Ferrule for 0.53 mm coupling (6 pack)