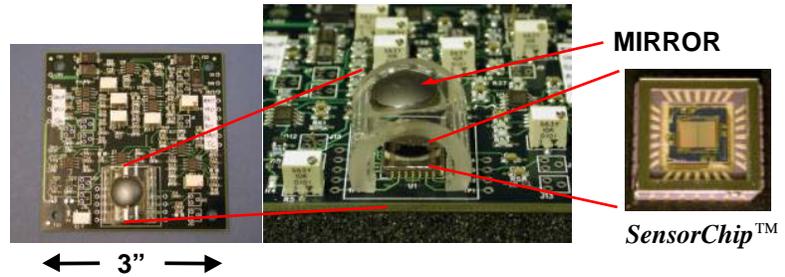
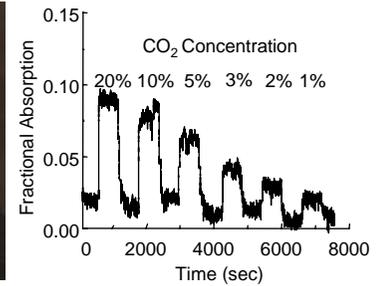
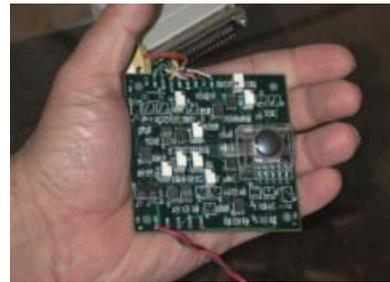


Date Revised: 16 JAN 04

VENDOR DESCRIPTION

SensorChip™ is Ion Optics' patented nano-photonic gas sensor, built on a silicon wafer using MEMS technology. We have successfully integrated the components of an NDIR gas sensor onto a silicon microchip to make a small, rugged, low-power gas sensor suitable for detecting gases in air to concentrations as low as 1 ppm. Designed originally for monitoring CO₂ and hydrocarbons, the sensor can be modified for detection of nerve agents (sarin, soman, tabun) as well as mustard gas.

Prototype quantities of CO₂ and hydrocarbon sensors are now being delivered with volume production expected to begin in 4Q2003.



Product Manager Robotic & Unmanned Sensors
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Business Category: Small Business

CAD

Hardware	
Power: 0.15 watts	Operating Altitude: 0 ft to 10,000 ft AGL
Weight: 0.1 kg	Operating Speed: 0 knots to 400 knots
Dimensions: 75mm x 75mm x 25mm	Operating Temp.: -10°C to 50°C
Internal Volume: 12 in ³	Storage Temp.: -40°C to 75°C
On Board storage capacity to handle 12 hours on station	Interface: 0-5 VDC
Sensor Type: Infrared	Bandwidth Required: Low
Internal Permanent Archive on Information: No	MTBOMF: TBD
Concentration Level: 2 mg/m ³	MTTR: TBD
	Maintainability: 2-level BIT to LRM level

Performance
Completes 90% of the Missions it starts without experiencing a mission abort
Sensor Hardened to Mitigate Damaging effect from EMP: Yes
Sensor Hardened to Eliminate Damaging effect from EMP: No
Provides detection of nerve agents sarin, soman and tabun vapors as well as mustard gas.