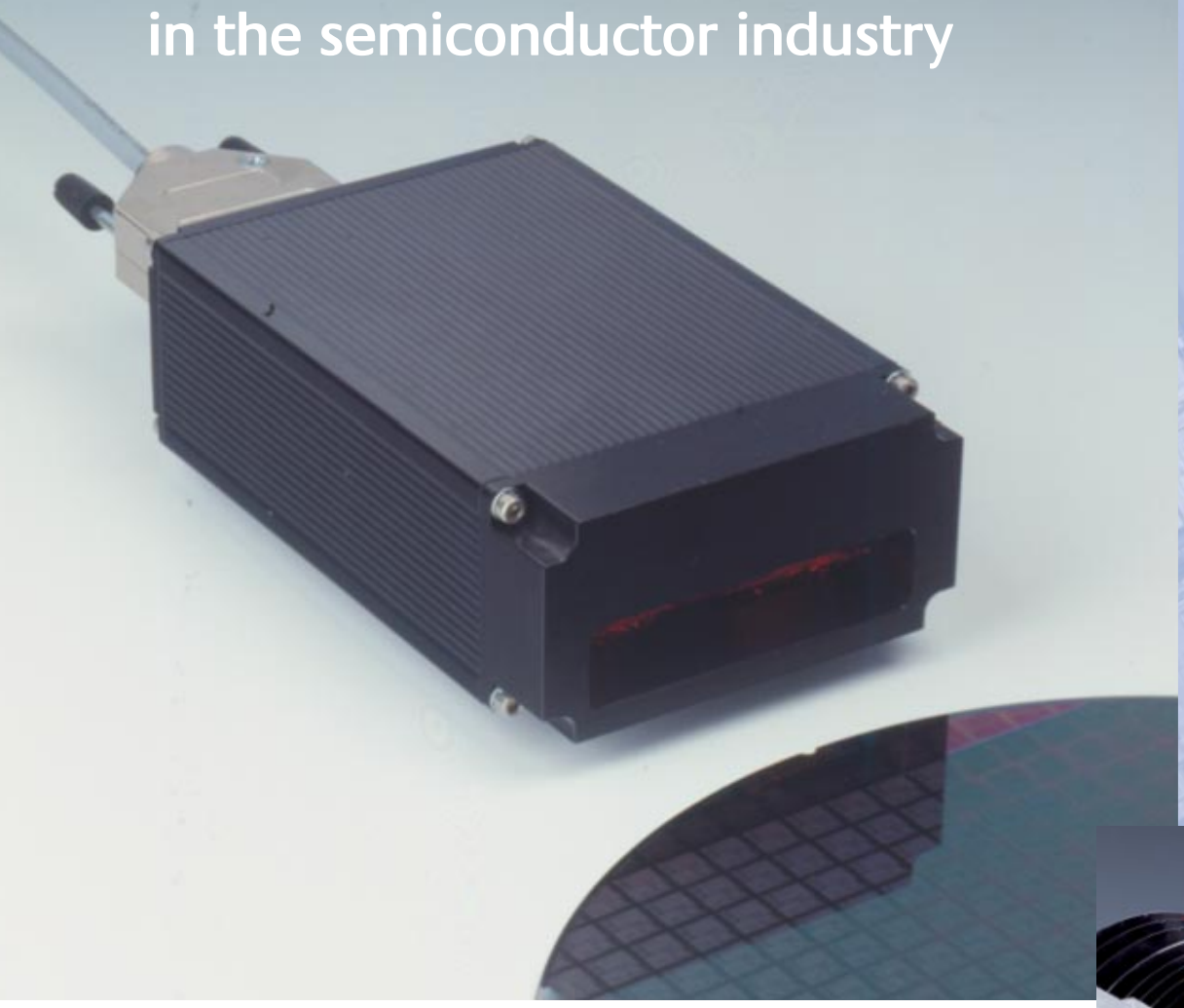
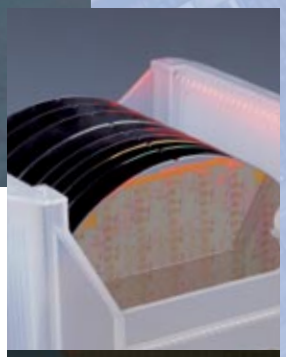
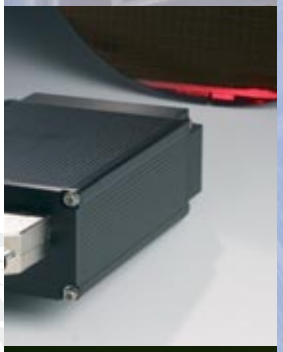
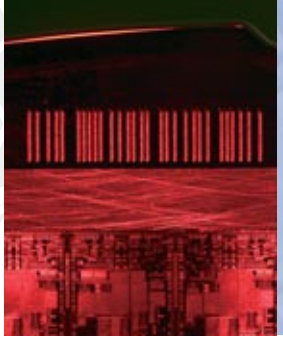
VisionSpy® 5040FM

The high-performance fix-mount solution for wafer identification in the semiconductor industry









Application areas

- 1d wafer reader for the semiconductor industry
- All types of labels, even reflecting, engraved and with low contrast
- Dirty, disfigured and incomplete codes as well as inverse symbologies
- Extremely small and extremely large codes

Unique Features

- Laser-like handling
- Software update and upgrade via serial port
- GaviSync® algorithms for perfect reading results
- Optional display for code readout and code comparison

Adaptable to all environments

- I/O reaction compatible to major scanners
- Industrial approved design
- Programmable parameter sets
- Windows setup tool

VisionSpy® 5040FM

Overview

The VisionSpy® 5040FM reader is a high-performance fix-mount solution designed to meet the SEMI identification standard as well as to provide outstanding wafer identification and reliable wafer tracking.

Using GaviSync® algorithms, it decodes all types of one-dimensional (1d) bar codes: dirty, disfigured, incomplete codes as well as reflecting, engraved and with low contrast. Extremely large and extremely small bar codes can be decoded easily and at high speeds by the VisionSpy® 5040FM wafer reader.

With its I/O functions, its programmable parameter set and its industrial approved design the VisionSpy® 5040FM wafer reader is adaptable to all environments and represents the semiconductor industry's "plug and play" solution for wafer ID reading.

Applications

Thanks to its advanced GaviSync® algorithms, the VisionSpy® 5040FM reads codes on all kinds of labels as well Direct Part Marks - printed, peened, ink jet marked or lasered. This eases any set-up of part tracing and error proofing applications. The sophisticated triggering modes allow scanning of moving parts in various process environments.

VisionSpy® 5040FM –	Specifications	Specifications subject to change without notice
Code types	BC412 (IBM & SEMI), 2/5 Interleaved, Code 39, Code 128, EAN 8, EAN 13	
Sensor	High resolution CCD line imager	
Contrast resolution	Extremely low, 15% black/white difference	
Reading distance	55 - 130 mm	
Line of view	50 - 80 mm (depending on distance)	
Angle tolerance	4° - 9° from verticality	
Lighting	Integrated LEDs, bright and dark field	
Voltage input	12V AC or DC, 550 mA max. (power supply included)	
Digital inputs	2 opto-galvanic decoupled lines (trigger)	
Digital outputs	2 opto-galvanic decoupled lines (good read/bad read)	
Additional outputs	LED and acoustical signal when reading OK	
Data transmission	RS232 for code output & configuration (2.400 - 57.600 Baud) Keyboard wedge (optional)	
Scanning rate	114 scans per second	
Code dimension	Minimum cell width 3 mils (at 90 mm reading distance)	
Trigger	Via digital input or serial RS232 command	
Physical characteristics	Dimensions: 80 x 60 x 62 mm Weight: 400 g Housing: Aluminum Operating temperatures: 5° - 45°C Humidity: 5% - 90% non condensing	
Additional	Windows setup tool Programmable to customer specifications	

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