Multispectral Imaging

See Things Differently

RIC10 with Imec Multispectral Sensors

- Filters image data into spectral components for analysis, thereby yielding information about an object's material constitution.
- Wafer-level hyperspectral filters
- Based on commercially available CMOS sensors
- Line scan and snapshot multispectral sensors
- 16, 25, 100, or 150 bands in one sensor
- Pipelined global shutter

Imec Hyperspectral Mosaic Snapshot Sensor

Sensor ID	Imec SM5X5-600-1000	Imec SM4X4-470-630
Sensor Type	CMOS Snapshot Mosaic, global shutter	CMOS Snapshot Mosaic, global shutter
Sensor Size	2/3"	2/3"
Sensor Resolution	2048x1088	2048x1088
Spectral Range	600...1000nm (NIR)	470...630nm (VIS)
Bands	25 (5x5)	16 (4x4)
Bandwidth per band	10-15 nm	10-15 nm
Scans/sec	up to 340 cubes/s	up to 340 cubes/s
Spatial Resolution	409x216 per band	512x256 per band
Pixel Size	5.5 µm	5.5 µm
Bit Depth	8 or 10 bit	8 or 10 bit
Availability	Now	Now

Imec Hyperspectral Line Scan Sensor

Sensor ID	Imec LS100-600-1000	Imec LS150-470-900
Sensor Type	CMOS Linescan, global shutter	CMOS Linescan, global shutter
Sensor Size	2/3"	2/3"
Sensor Resolution	2048x1088	2048x1088
Spectral Range	600...1000 nm (VIS to NIR)	470...900nm
Bands	100+	150+
Bandwidth per Band	10-15 nm	10-15 nm
Scans/sec	up to 1360 lines/s	up to 1360 lines/s
Spatial Resolution	8 lines per band	TBD
Pixels per Line	2048	2048
Pixel Size	5.5 µm	5.5 µm
Bit Depth	10 bit	10 bit
Availability	Now	In development

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