

Datasheet: imec CMV2K LS96 450-900

Imec sensor part nr.	360-0012-01
Bandpass filter type	round glass designed for in-camera integration
- Diameter	25mm
- Thickness	0.7mm
Detection range	450 – 900 nm
- Nr of samples	96
- Lines per band	10
- FWHM	~ 10 – 15 nm
Camera category	linescan VNIR
Base imager	AMS CMV2000
- Spatial resolution	2048x1088
- Frame rate	Up to 340 fps
- Pixel pitch	5.5 μ m
- Bit depth	8 or 10 bit
Predecessor	imec CMV2K LS150 470-900 (P.N. 360-0005-01)
Key improvements	<ul style="list-style-type: none"> • Extended spectral range • >90% filter Tx throughout full range • Double amount of dTDI stages • Max abs peak to peak variability < 1%
Public announcement date	Aug 5, 2024
First shipments target date	Q4 2024
Status	Active

DISCLAIMER - This information is provided 'AS IS', without any representation or warranty. Imec is a registered trademark for the activities of IMEC International (a legal entity set up under Belgian law as a "stichting van openbaar nut"), imec Belgium (IMEC vzw supported by the Flemish Government), imec the Netherlands (Stichting IMEC Nederland, part of Holst Centre which is supported by the Dutch Government), imec Taiwan (IMEC Taiwan Co.) and imec China (IMEC Microelectronics (Shanghai) Co. Ltd.) and imec India (Imec India Private Limited), imec Florida (IMEC USA nanoelectronics design center)

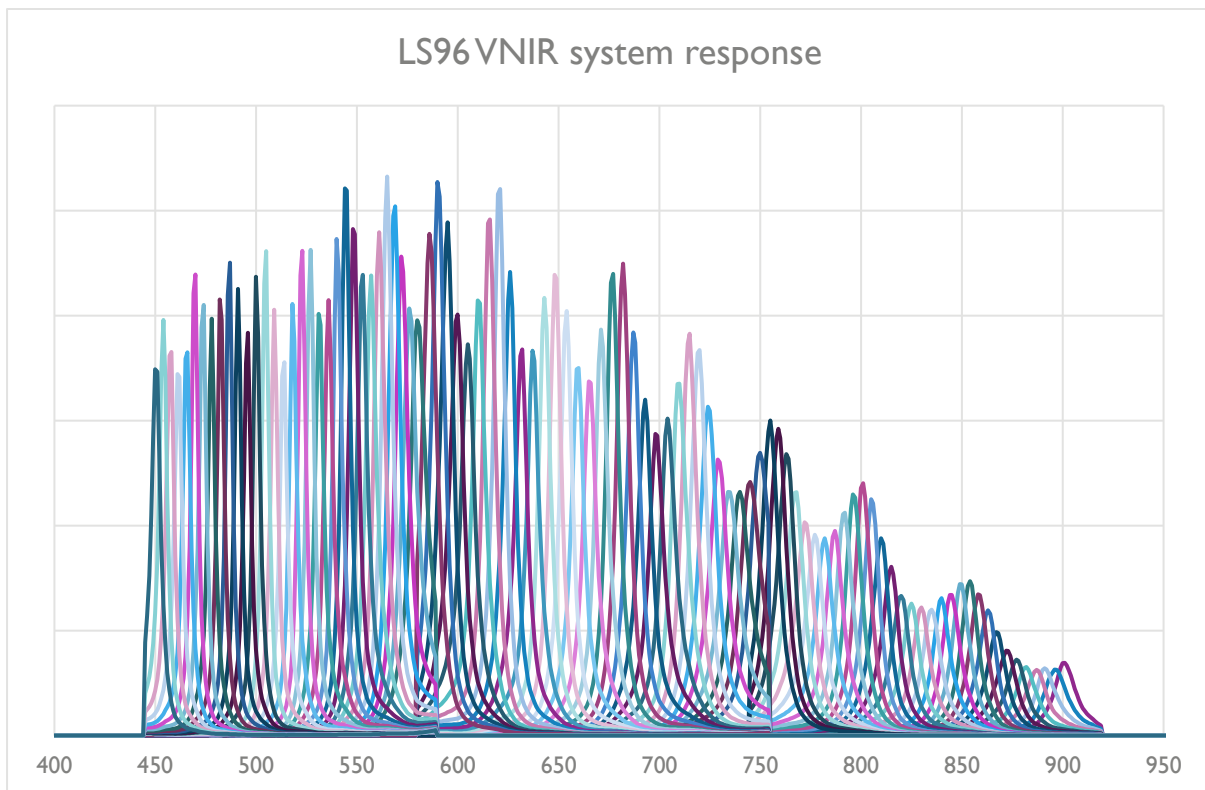


Figure 1. Example of a LS96 linescan VNIR system response graph

Space qualification:

Our off-the-shelf sensors have not been designed for space applications and did not pass a complete space-qualification process according to f.i. ESCC specification. Contact us for custom sensor development with your specific qualification needs for use in space (export control license requirements may apply).

More information

- hsisales@imec.be
- <http://www.imechyperspectral.com>

DISCLAIMER - This information is provided 'AS IS', without any representation or warranty. Imec is a registered trademark for the activities of IMEC International (a legal entity set up under Belgian law as a "stichting van openbaar nut"), imec Belgium (IMEC vzw supported by the Flemish Government), imec the Netherlands (Stichting IMEC Nederland, part of Holst Centre which is supported by the Dutch Government), imec Taiwan (IMEC Taiwan Co.) and imec China (IMEC Microelectronics (Shanghai) Co. Ltd.) and imec India (Imec India Private Limited), imec Florida (IMEC USA nanoelectronics design center)