

Custom opto-semiconductor devices tailored to meet your needs

We recognize that standard solutions may not always align with your specific needs. That's why we provide custom opto-semiconductor devices tailored to your requirements. Whether you need custom photosensors or light emitters, we're committed to delivering the perfect solution for you. From the initial specification review to the final delivery, we ensure seamless communication and collaboration at every stage, providing the best devices for your unique needs.

Embark on our customization experience

We start by thoroughly reviewing your initial specifications to understand your requirements.

Initial specification review

CUSTOMIZE

- Wavelength used
- Size
- Price
- Standard (e.g. CE, FDA, AEC) etc.
- Light intensity
- Interface



Example Requests

We want to...

"Use it in certain places."

"Output a certain signal."

"Detect light at high speed."

"Detect light of a certain wavelength."

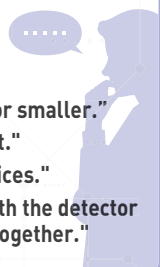
"Emit light of a certain wavelength."

"Make the detector smaller."

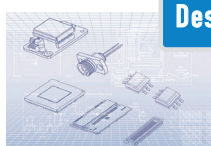
"Detect weak light."

"Realize lower prices."

"Consult about both the detector and the emitter together."



Design and planning



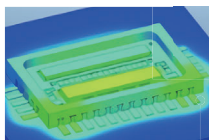
Our expert design team plans and designs a tailored solution based on your requested specifications.

CUSTOMIZE

- Photosensitive area design
- Package design
- Circuit design, etc.

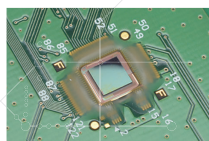
Simulation and testing

Utilizing our cutting-edge in-house simulation technology to perform a comprehensive simulation from various aspects to ensure optimal performance.



CUSTOMIZE

- Spectral response
- Package
- Heat
- Stress
- Circuit, etc.



Prototype evaluation

You assess the prototype, and we'll fine-tune it based on your feedback to ensure optimal performance.

Finalize specification

We finalize production specifications based on discussions with you and successful evaluation results.



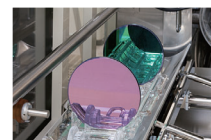
Ongoing innovation

Anticipating future needs, we leverage our extensive technology and expertise to propose even better solutions, ensuring your projects stay ahead of the curve.



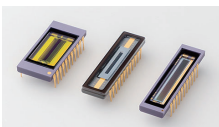
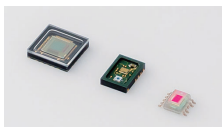
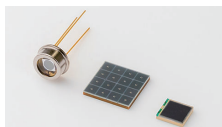
Mass production

With expertise in wafer processing and package assembly, we deliver in your requested packaging format, ensuring a smooth transition to mass production.



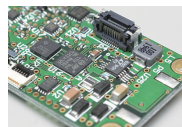
Our manufacturing technologies are the basis for customization

Our opto-semiconductor devices have been trusted across diverse industries, including scientific measurement, medical, automotive, industrial, and consumer products. With a rich product lineup supporting various wavelengths and integrated production capabilities, we cover everything from design and semiconductor processing to assembly and inspection.



Custom modules also available

We can produce both individual devices and custom modules that incorporate them. At Hamamatsu, we integrate opto-semiconductor, optical, circuit, mounting, and software technologies to deliver easy-to-use module formats tailored to your needs that streamline your processes.



HAMAMATSU

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