

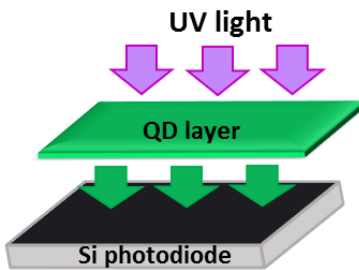


# Perovskite Quantum Dots for UV Sensors

Silicon photodiode is the most widely used commercial device to capture light in a broad range of applications, from imaging to light sensors. Due to low penetration depth of high energy UV photons in the silicon-based layer, these sensors are not sensitive enough for UV light with wavelengths below 400 nm. Perovskite Quantum Dots can be utilized as the color-converting layer to enhance the UV light sensitivity of Si-based photodetectors.

## BENEFITS:

- High photoconversion of UV light into visible light (PLQY up to 100 %)
- High absorption coefficient of UV light
- Tunable emission 450-685 nm



## PERFORMANCE:

	QD-P
Emission	450-685 nm
PLQY at UV light excitation	Up to 100 %
FHWM	< 20-40 nm
UV light absorption range	100-400 nm

## Products portfolio:

- [Perovskite Quantum Dots \(QD-P\)](#)  
Perovskite QDs, oleic acid and oleylamine capped, 450-685 nm emission peaks

