Chemigo

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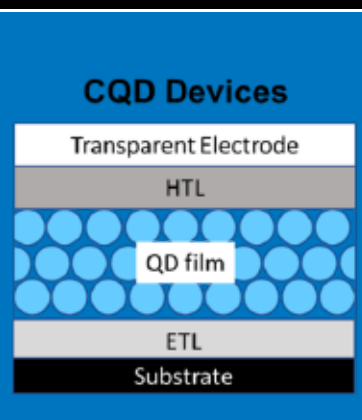
INFIQ® SWIR & NIR Quantum Dots

Redefining infrared sensing



INFIQ®QDs offer world-leading performance with best-in-class optical properties

- **Quality Production and Supply**
  - Innovative synthetic processes to control and produce high quality and high-performance Quantum Dots (QDs) at scale.
  - Pb-based and heavy metal-free quantum dot (ECO QDs) systems available.
  - Developed by the world-leading QD team with extensive commercial scale-up experience .
- **Leading Performance**
  - QD materials with high size uniformity and batch-to-batch consistency on large scale.
  - Thermal and colloidal stability as well as better redispersion in solvents.
- **QD stack**
  - IP and extensive know-how in QD device fabrication.
  - Industry champion efficiencies established in the NIR and SWIR for lead and ECO QDs .
  - Support QD stack optimization to help shorten R&D cycle times.

INFIQ®-R-HP-QDs

Product No.	Absorption excitonic peak Wavelength (nm)	Full width half maximum (FWHM)	Peak/ Valley ratio	Solvent
QD_EDM_001	880 ± 25	< 90 nm	> 5	Octane or toluene
QD_EDM_002	940 ± 25	< 90 nm	> 5	
QD_EDM_003	1250 ± 25	< 90 nm	> 5	
QD_EDM_004	1350 ± 25	< 90 nm	> 5	
QD_EDM_005	1550 ± 25	< 100 nm	> 6	
QD_EDM_006	1650 ± 25	< 100 nm	> 6	
QD_EDM_007	1850 ± 25	< 150 nm	> 3	
QD_EDM_008	2000 ± 25	< 150 nm	> 2	

INFIQ®-R-HP-QD ink

Product No.	Absorption excitonic peak Wavelength (nm)	Semiconductor polarity	Concentration	Single layer thickness (nm)
QD_EDM_009	1550 ± 25	n-type	170 mg/ml	>200 nm

INFIQ®-R-LF-QD

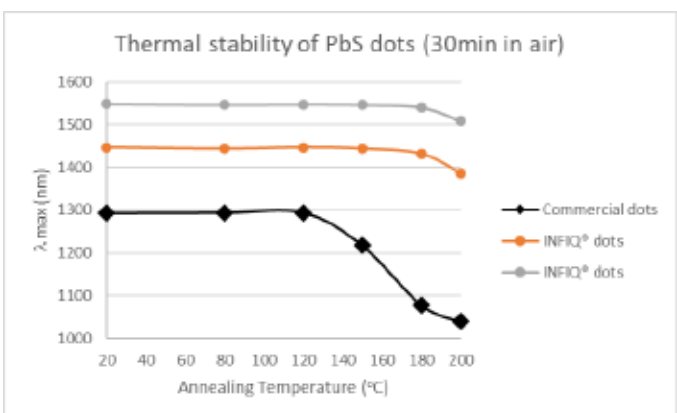
Product No.	Absorption excitonic peak Wavelength (nm)	Full width half maximum (FWHM)	Peak/ Valley ratio	Solvent
QD_EDM_0010	980 ± 25	< 150 nm	> 1.1	Octane or toluene
QD_EDM_0011	1100 ± 25	< 150 nm	> 1.1	
QD_EDM_0012	1400 ± 25	< 150 nm	> 1.1	

INFIQ®-R-ECO-QDs

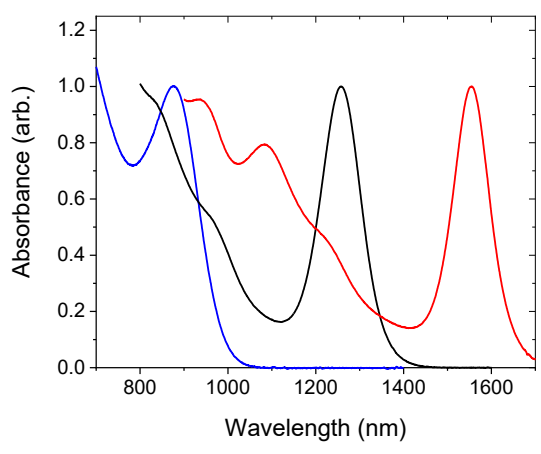
Product No.	Absorption excitonic peak Wavelength (nm)	Material	Solvent
QD_EDM_0013	800 ± 25	Ag2S	DMF
QD_EDM_0014	1000 ± 50	Ag2Se	Toluene

Thermal Stability and optical properties INFIQ®-R-HP-QDs

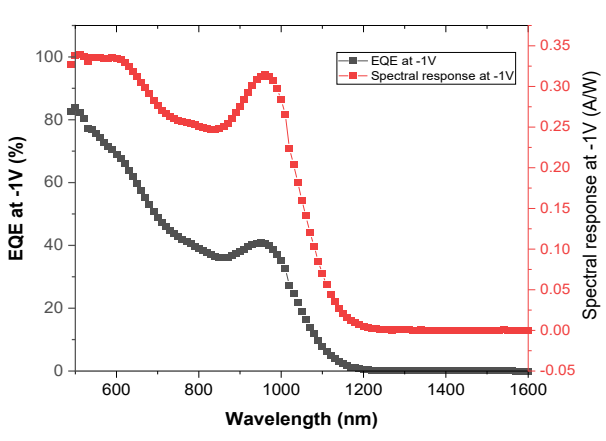
Thermal Stability

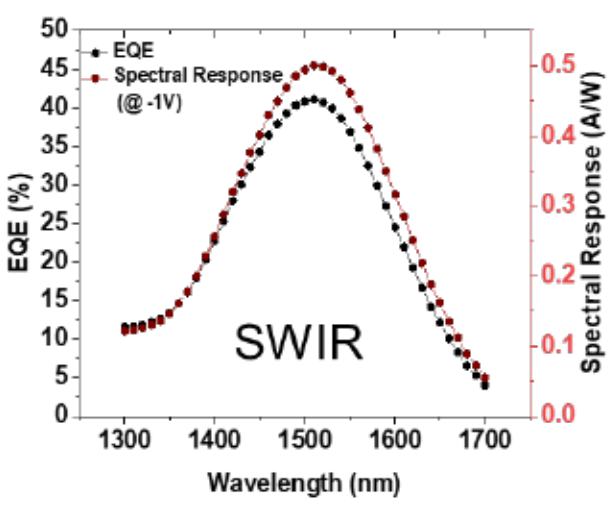


Absorption spectra



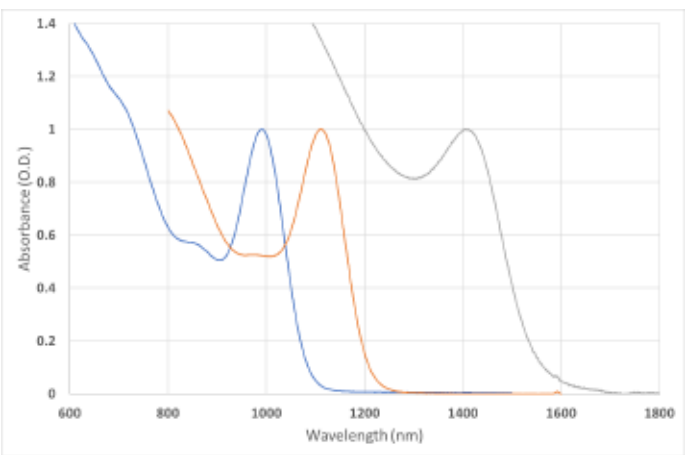
INFIQ®-R-HP-QD ink device performance



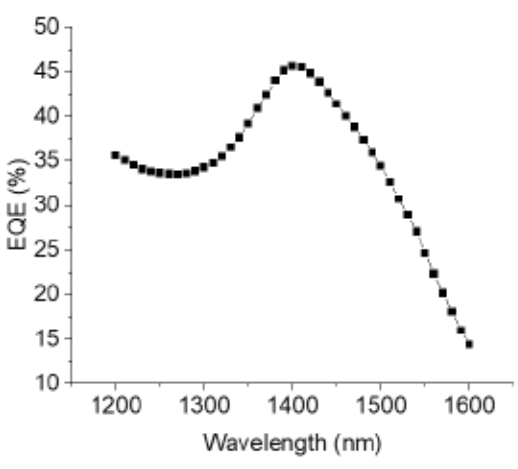


INFIQ®-R-LF-QD device performance

Absorption spectra



Device data



Above products manufactured by Quantum Science Ltd. Please contact Chemigo for purchase.

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