QDI systems

Quantum dots for scalable and affordable SWIR imaging

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WHAT WE DO AT QDI SYSTEMS

Quantum dot synthesis

Quantum dot ink formulation

Quantum dot film deposition

TFT and CMOS Image Sensors

Quantum dot advantages

- Solution process
- High-volume manufacturing
- Monolithic integration

QDI technology

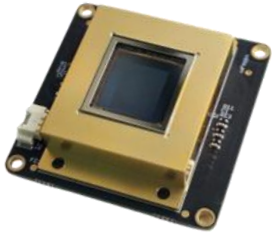
- Air processing
- One-step deposition
- Low defect density
- Low dark current and high EQE
- Extended EQE range (eSWIR 3um)
- No reliance on critical raw materials
- Sensor manufacturing in Groningen, all in EU

QDI systems

QDI SWIR SENSOR PORTFOLIO

Packaging options

Chip-on-board



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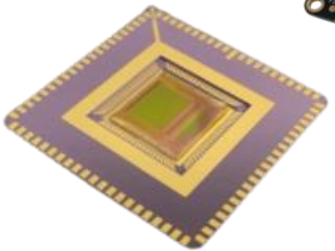


Ceramic

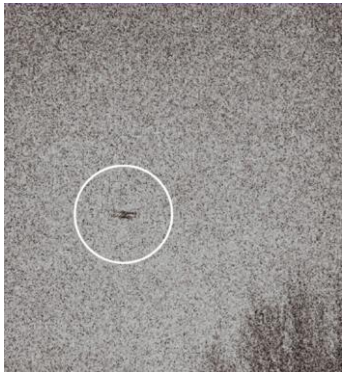
	VGA	SXGA	Full HD
Resolution	640x512	1280x1024	1920x1080
MPx	0.3	1.2	2.1
Diagonal, mm	8.2	16.4	11.0
Pixel pitch, µm	10	10	5
Frame rate, FPS	700	350	120

QDI systems

RECENT USE CASES - DEFENCE

Laser detection

Imaging through smoke



Drone detection at night

RECENT USE CASES - MACHINE VISION

Silicon wafer inspection

Monitoring fluid levels & integrity of storage containers

Material sorting (real VS fake coffee beans)

QDI systems

Thank you!

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