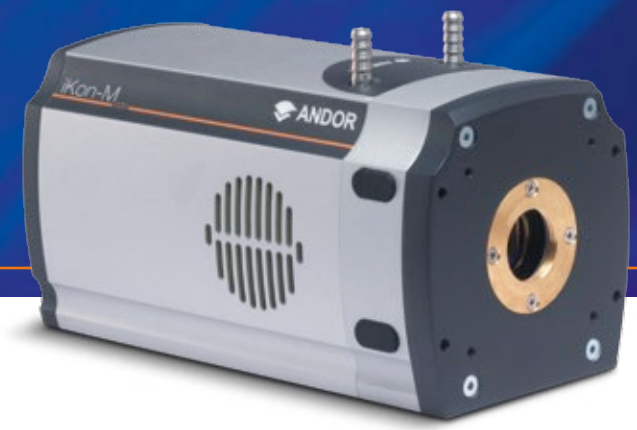

ANDOR
an Oxford Instruments company

Ultra Sensitive Imaging Cameras

Highlights

- UltraVac™ cooling to -100°C
- 95% peak QE combined with extra-low noise floor
- Up to 5 MHz readout speed
- Sensor formats up to 1 Megapixel
- Deep depletion NIR version available
- USB 2.0 plug and play connectivity
- Compact and OEM-friendly

Key Applications

- Single Molecule Detection
- Bioluminescence / Chemiluminescence
- In-Vivo Imaging
- Photon Counting
- Biochip Reading
- Bose Einstein Condensation (BEC)
- Neutron Radiography / Tomography
- Fluorescence Microscopy
- Combustion Studies
- High Throughput Screening
- High Content Screening
- Pressure Sensitive Paints
- Raman / Fluorescence Imaging
- Semiconductor Analysis
- Genome Sequencing
- Photovoltaic Inspection

iKon-M

High QE, Low Noise Imaging Performance

The iKon-M benefits from negligible darkcurrent with industry-leading thermoelectric cooling down to –100°C. Up to 5 MHz readout facilitates rapid frame rate acquisition or fast focusing, alongside direct USB 2.0 connectivity to PC.

The integrated C-mount shutter (adaptors to other mounts are readily available) means that the iKon-M can be employed to great effect for low light microscopy, such as for detection of weak intracellular bioluminescence.

The NIR optimized BR-DD version is ideal for imaging of Bose Einstein Condensates, industry fastest vertical shift speeds offering boosted fast-kinetics temporal resolution.

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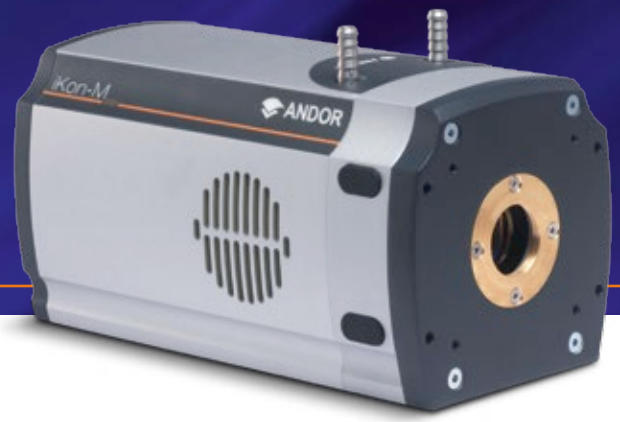


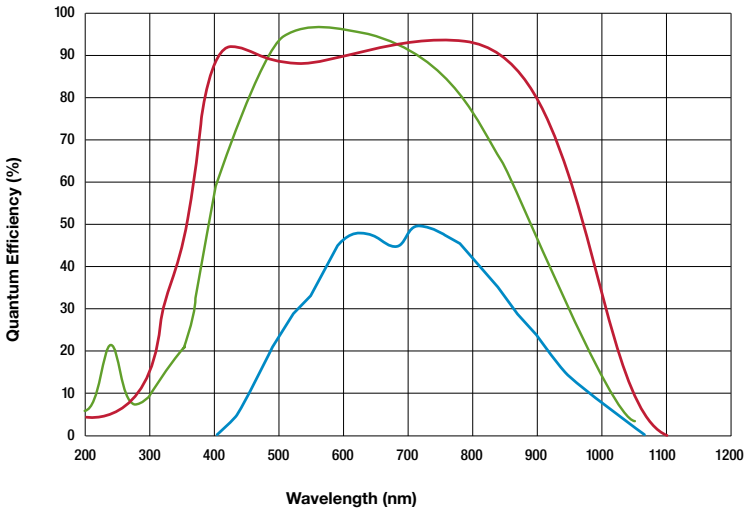
Features and Benefits

Unparalleled thermoelectric cooling	TE cooling to -100°C with 10°C water
Up to 95% QE	Maximum photon capture and higher S/N ratio
UltraVac™	Sustained vacuum integrity, sensor protection and unequalled cooling
Ultra-low noise readout	Minimized detection limit
Software selectable pre-amp sensitivity	User configurable system optimization
Multiple selectable readout speeds (up to 5 MHz)	Range between 'fast focus' and optimized noise
Industry fastest vertical shift	Best temporal resolution in fast kinetics' acquisition mode
High quantitative dynamic range (16-bit digitization)	Quantify both strong and very weak signals in a single frame
Single window design	Maximum photon throughput
External trigger	Synchronization to experimental events
Integrated C-mount shutter	Avoid vertical smear during readout
Andor's Solis (i) software and SDK	User-friendly software interfaces for acquisition and analysis
USB 2.0 PC interface	Direct 'Plug and Play' connectivity

Models

Model	Active Pixels	Pixel Size	Sensor Options
DU-912N	512 x 512 full frame	24 µm x 24 µm	BV, FI
DU-934P	1024 x 1024 full frame	13 µm x 13 µm	BR-DD, BU2, BV, FI

Quantum Efficiency Curves



Head Office
7 Millennium Way
Springvale Business Park
Belfast BT12 7AL
Northern Ireland
Tel: +44 (0)28 9023 7126
Fax: +44 (0)28 9031 0792

North America
300 Baker Avenue
Suite 150
Concord, MA 01742
USA
Tel: +1 860-290-9211
Fax: +1 860-290-9566

Japan
5F IS Building
3-32-42 Higashi-Shinagawa
Tokyo 140-0002
Japan
Tel: +81-(0)3-6732-8968
Fax: +81-(0)3-6732-8939

China
Unit 1, Building A,
No. 66 Zhufang Road,
Haidian District,
Beijing 100085
P. R. China
Tel: +86 (0)10-8271-9066
Fax: +86 (0)10-8271-9055

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