

Imager *sCMOS*

scientific imaging
breakthrough



LaVision's **Imager *sCMOS*** camera overcomes traditional trade-offs of current camera technology standards and offers outstanding imaging performance in the field of quantitative scientific (laser) imaging.

The **Imager *sCMOS*** camera is especially designed for the demanding requirements in laser imaging applications such as Particle Image Velocimetry (PIV) and Planar Laser Induced Fluorescence (PLIF): low light imaging combined with large signal variations, highest temporal and spatial resolution over large fields of view illuminated by the laser sheet.

General System Specifications

Double shutter	two images with 120 ns interframing time
Min. exposure:	10 μ s
A/D-converter	16 bit
Camera interface	PCI-ExpressCard (4 x slot)
Lens mount:	F-mount (optional C-mount)
Number of pixels	2560 x 2160 pixels
Pixel size	6.5 μ m x 6.5 μ m
Active area	16.6 mm x 14.0 mm
Spectral range	370 – 1100 nm
Max. QE	typ. 60 % @ 550 nm
Full well capacity	30,000 e-

Pixel clock	95 MHz	286 MHz
Frame rate	16 Hz	50 Hz
Readout noise	~ 2 e-	~ 3 e-
Dynamic range	15000 : 1	10000 : 1

Operating temperature	-10– 60 °C
Dimensions (LxWxH)	103.3 mm x 80 mm x 86 mm
Weight	700 g

DaVis Software	
Operation system	Windows7 (64bit)
Data acquisition	user programmable
Command Language	,C' syntax for system and user functions
Device control	laser, stepping motor, Autofocus, Scheimpflug

LA VISION UK LTD

DOWNVIEW HOUSE/ GROVE TECHNOLOGY PARK
GROVE/ OXON/ OX12 9FF, UNITED KINGDOM

E-MAIL: SALES@LAVISION.COM / WWW.LAVISIONUK.COM

PHONE: +44-(0)870-997-6532/ FAX: +44-(0)870-762-6252

LA VISION GMBH

ANNA-VANDENHOECK-RING 19
D-37081 GOETTINGEN / GERMANY

E-MAIL: INFO@LAVISION.COM / WWW.LAVISION.COM

TEL. +49-(0)551-9004-0 / FAX +49-(0)551-9004-100

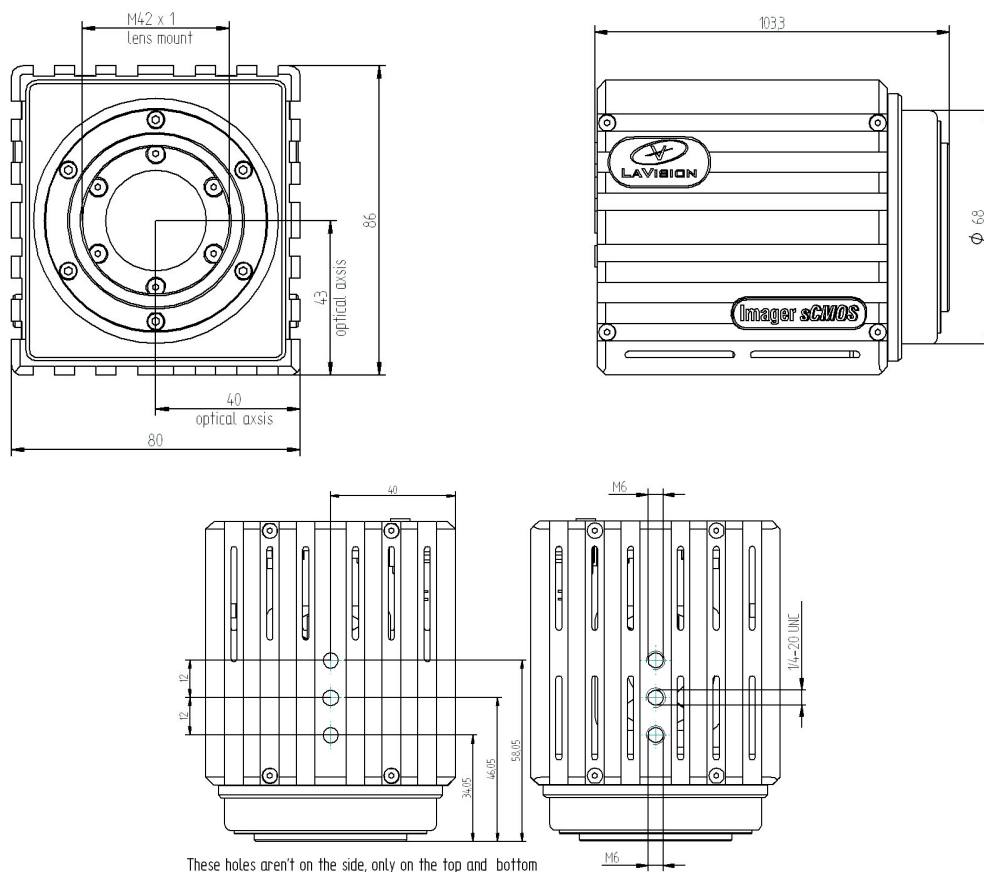
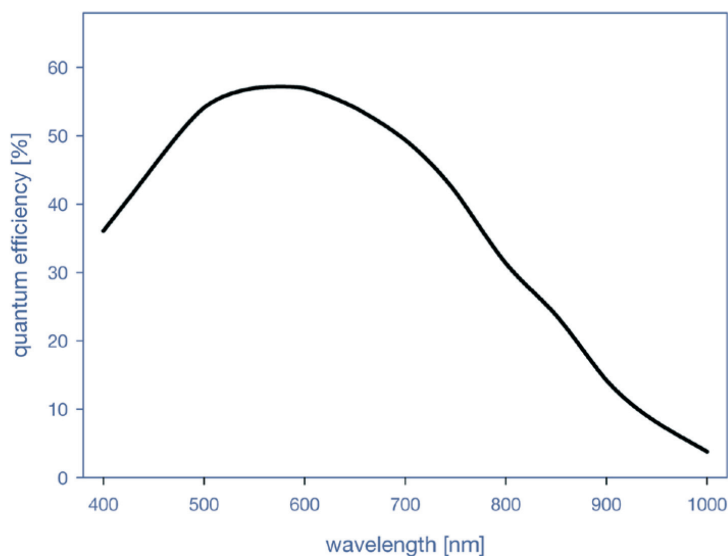
LA VISION INC.

211 W. MICHIGAN AVE. / SUITE 100
YPSILANTI, MI 48197 / USA

E-MAIL: SALES@LAVISIONINC.COM / WWW.LAVISIONINC.COM

PHONE: (734) 485 - 0913 / FAX: (248) 465 - 4306

Quantum efficiency



Data provided by LaVision are believed to be true. However, no responsibility is assumed for possible inaccuracies or omissions. All data are subject to change without notice.

May-11

Ordering Information

part number	Description
1101405	Imager sCMOS camera

LA VISION UK LTD

DOWNVIEW HOUSE/ GROVE TECHNOLOGY PARK
GROVE/ OXON/ OX12 9FF, UNITED KINGDOM

E-MAIL: SALES@LAVISION.COM/ WWW.LAVISIONUK.COM

PHONE: +44-(0)-870-997-6532/ FAX: +44-(0)-870-762-6252

LA VISION GMBH

ANNA-VANDENHOECK-RING 19
D-37081 GOETTINGEN / GERMANY

E-MAIL: INFO@LAVISION.COM / WWW.LAVISION.COM

TEL: +49-(0)5 51-9004-0 / FAX +49-(0)551-9004-100

LA VISION INC.

211 W. MICHIGAN AVE. / SUITE 100
YPSILANTI, MI 48197 / USA

E-MAIL: SALES@LAVISIONINC.COM / WWW.LAVISIONINC.COM

PHONE: (734) 485 - 0913 / FAX: (248) 465 - 4306