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Digital CCD camera C8484-16C



Catalog [184 KB/PDF]

The C8484-16C is an UV CCD digital camera using an advanced 1/2 inch progressive scan interline CCD chip with high sensitivity in the UV region while offering substantially better noise characteristics at high frame rates. The C8484-16C 1/2 inch format 1344×1024 resolution CCD with small (4.65 µm) pixels provides extremely high resolution. A Camera Link digital output ensures compatibility with a large number of commercially available frame grabber boards. Standard C-mount lens coupling makes it easy to connect to optical microscopes and lenses. Fast electronic shuttering, fast readout and low noise integration all combine to make this camera a great choice for both high and low level UV imaging applications.

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Features | Applications | Configuration | Specifications | Spectral response | Dimensions

Features

High sensitivity in UV region (Quantum efficiency: 40 % at 200 nm, 30 % at 250 nm)

Extremely high resolution with 1344×1024 pixels/small pixel size (4.65 µm)

Progressive scan interline readout with no mechanical shutter

Low readout noise design (14 electrons typ.)

Anti-Blooming function with vertical overflow drain structure

12 bit digitizer

Analog contrast enhancement

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Applications

Excimer KrF (248nm), ArF (193nm) laser beam diagnostics

UV imaging with Excimer KrF, ArF laser

Semiconductor mask alignment

UV optics development

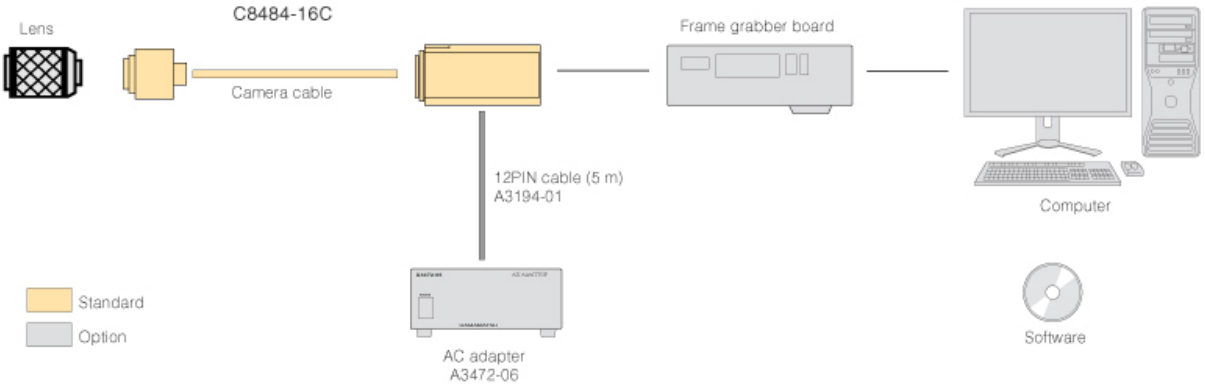
General UV imaging

UV Metrology

Lithography

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Configuration



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Specifications

Type number	C8484-16C
Imaging device	Progressive scan interline CCD chip with micro-lenses
Effective no. of pixels	1344 (H)×1024 (V)
Cell size	4.65 µm (H)×4.65 µm (V)
Effective area	6.25 mm (H)×4.76 mm (V)/ 1/2 inch format
Readout speed	11.9 frames/s
Readout noise	14 electrons rms (typ.)
Exposure time	12.4 µs to 1 s
Dynamic range	778:1 (typ.)
Analog gain	1×, 5×
Sub-array	1344 (H)×8 to 1024 (V) (in 8 line increments)
Binning	2×2, 4×4
External trigger input	YES
Interface	Camera Link

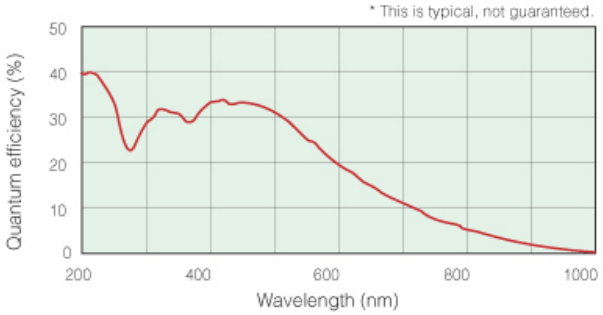
A/D converter	12 bit
Lens mount	C-mount
Power supply	DC+12 V
Power consumption	Approx. 10 VA
Ambient operating temperature	0 ℃ to +40 ℃
Ambient storage temperature	-10 ℃ to +50 ℃
Ambient operating humidity	70 % max. (with no condensation)

Readout speed

Binning	1×1	2×2	4×4
Number of pixels(H)×(V)	1344×1024	672×512	336×256
Readout speed (fremes/s)	11.9	21.35	35.75

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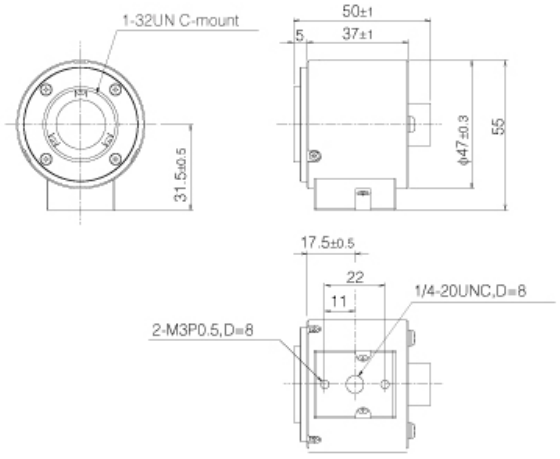
Spectral response



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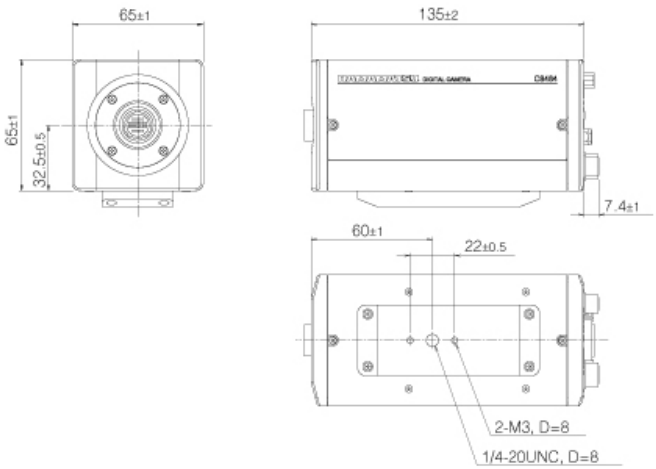
Dimensions

● Camera head (Approx. 160 g)



● Camera control unit (Approx. 610 g)

Unit: mm



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Request info

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Recommended products



C8000-30 BT-CCD camera

Change search approach

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