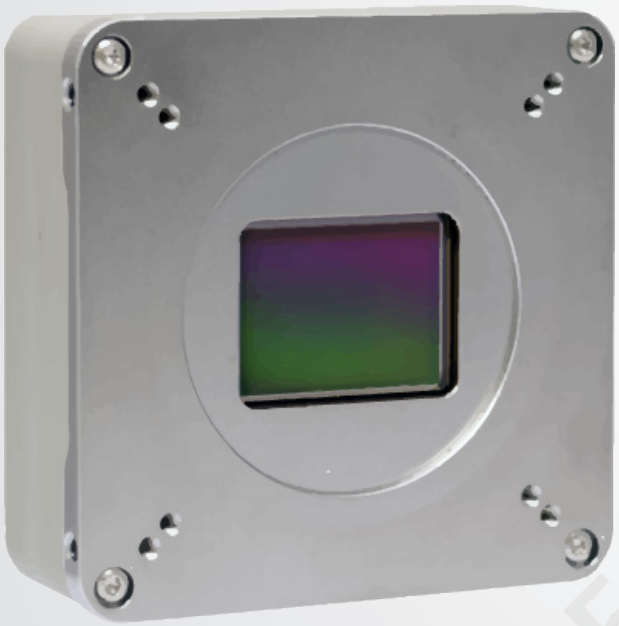
DIAMOND series
D-65Axx-Kx/CXP

Adimec
Excellence in Imaging



The D-65 cameras are part of Adimec's DIAMOND Gentific™ camera series, designed to offer an off the shelve solution for the most challenging in-line metrology and scientific healthcare image requirements. The D-65 camera range offers the next leap for ultra-high-resolution in-line display module inspection tools.

The D-65A30 camera features an optimized solution for LCD, OLED and MicroLED inspection applications, that require a high dynamic range. For De-Mura and display pixel calibration where multiple, very uniform, images are required, the D-65A30 combines 65 megapixel running up to 30 fps with a linear response. For Mura dark inspection the cameras have superb sensitivity in combination with low noise performance at long exposure times.

The D-65A09 camera is designed mainly for LCD inspection applications, which typically use longer exposure times. It uses a single CoaXPress connection which provides a cost effective system solution and still allows a throughput of 9 frames per second. The camera does include all the uniformity corrections that make the D-65 camera range perfect for display inspection. This model comes with a monochrome sensor only.

CoaXPress®

- 9344 x 7000 up to 30 fps
- Active sensor alignment
- Pixel based dark field correction for all exposure times
- Device-to-device repeatability
- Low frequency flat field correction in bright
- Optimized thermal management

65 Megapixel High Resolution Metrology Camera

Model specifications

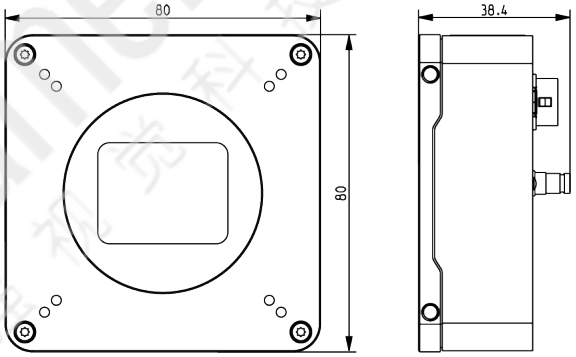
	D-65A09	D-65A30
Sensor	GPIXEL GMAX3265	
Pixel size	3.2 µm x 3.2 µm	
Active pixels	9344 (H) x 7000 (V)	
Video Output	CoaXPress V1.1.1 CXP3/6 - 1 lane configurable	CoaXPress V1.1.1 CXP3/6 - 1, 2 and 4 lanes configurable
Frame speed (12 bit)	9 fps	31 fps (11 fps @ long exposure time mode)
Image acquisition	Timed, TriggerWidth, SyncControl, TimedTriggerControl	
Power input voltage	1 x 24 Vdc nominal PoCXP	
Power dissipation	< 13 W	

Functionality highlights

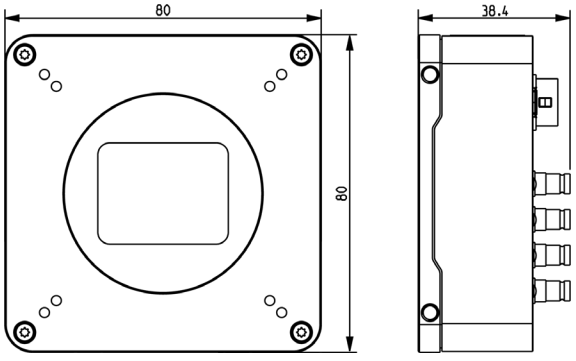
	D-65A09	D-65A30	
Multi-exposure	√	√	√
Defect pixel correction	√[1]	√[2]	√[2]
Manual and one push white balance	-	-	√
Programmable look-up table	√	√	√
Digital fine gain (1x to 32x)	√	√	√
Pixel based darkfield correction	√	√	√
Column based brightfield correction	√	√	√
Low Frequency Flat Field Correction (LF FFC)	√	√	√
Sensitivity matching between cameras	√	√	√
Binning	√	√	√

1. Maximum (corrected) defect pixel cluster size = 9.
2. Maximum (corrected) defect pixel cluster size = 4.

D-65A09



D-65A30



Adimec Support

Adimec DIAMOND cameras are designed, optimized and calibrated for demanding inspection and metrology applications.

Additionally the Adimec application experts support our customers in integrating the DIAMOND camera and tuning the images to fit their measurement.

Please contact your Adimec representative for further assistance.

For maximum image quality, performance, and reliability in demanding applications - Choose Adimec

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