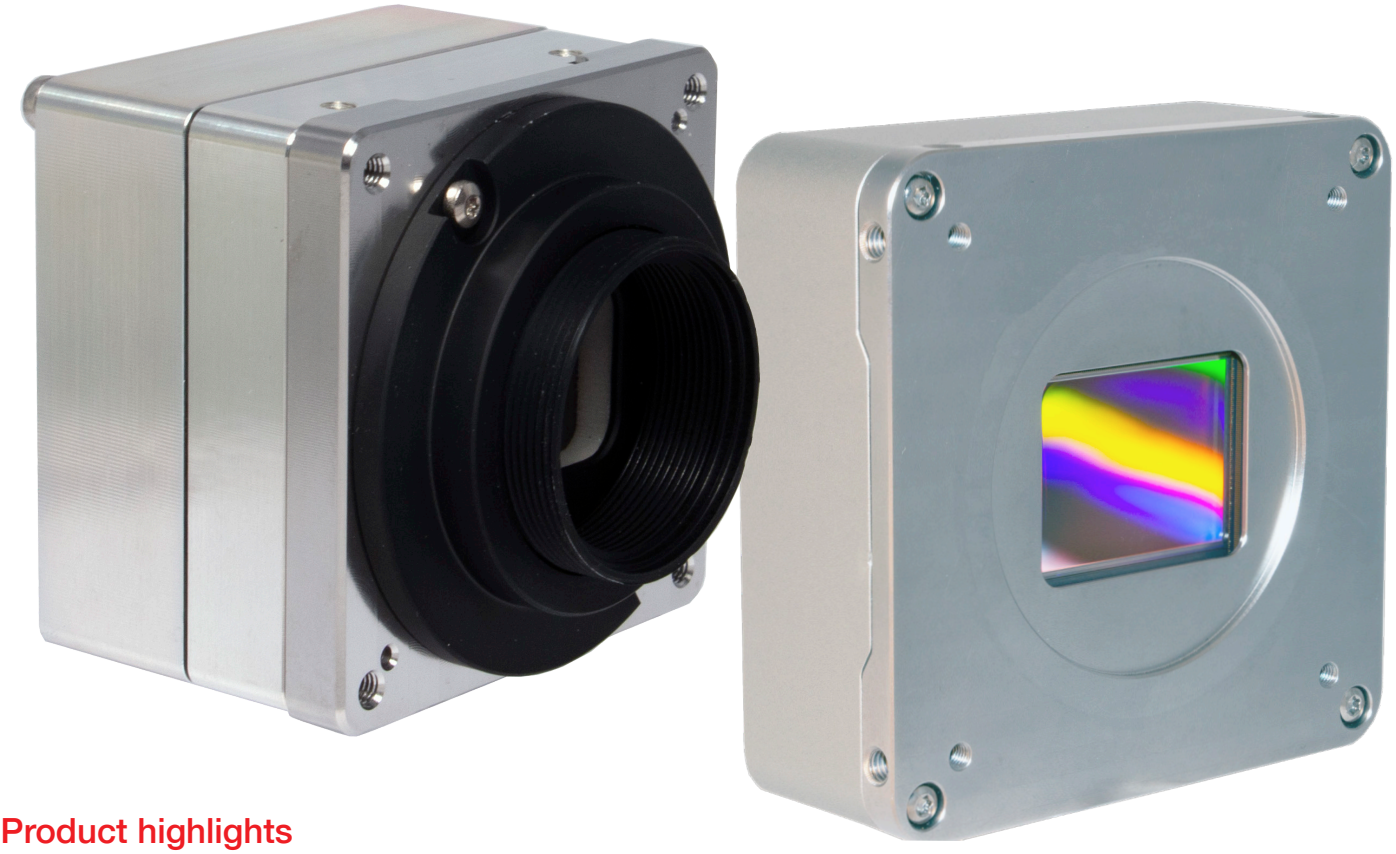
ADIMEC CAMERAS FOR DISPLAY MODULE INSPECTION

D-12A09 - D-65A35



Product highlights

- High resolution
- High frame rate
- High sensitivity
- Mura in dark correction
- Mura in bright correction

Gentific™ cameras to excel imaging

Adimec's D-12A09 and D-65A30 cameras feature optimized solutions for applications like display module (LCM) inspection, requiring a high dynamic range and an excellent performance in measurements in the dark. Special features like image averaging, to improve signal to noise ratio and multi-exposure, to measure uniformity of a micro LED, OLED and mini LED display without refresh rate issues, makes these cameras very suitable and cost-effective for mura in dark and Mura in bright inspections used for displays.

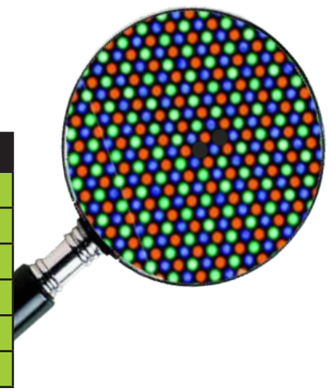
Adimec
Excellence in Imaging



D-65A35

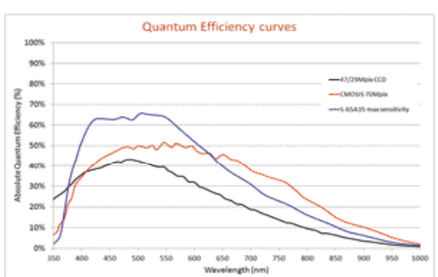
High Resolution

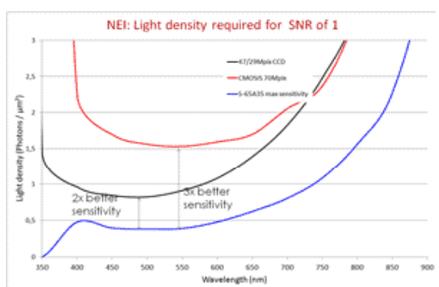
Device	Resolution	3x3
Apple Iphone Xs max	2688 x 1242	8064 x 3726
Apple Ipad pro	2732 x 2048	8196 x 6144
Apple Macbook pro	2880 x 1800	8640 x 5400
Samsung Galaxy S10	3040 x 1440	9120 x 4320
Samsung Galaxy Fold	2480 x 2200	7440 x 6600
Samsung Glaxy S10	3040 x 1440	9120 x 4320



High sensitive sensor and high speed

OLED inspection needs to take many images under different combinations of screen color and grey level. High sensitive sensor and higher system throughput guarantee a much higher throughput than other cameras.





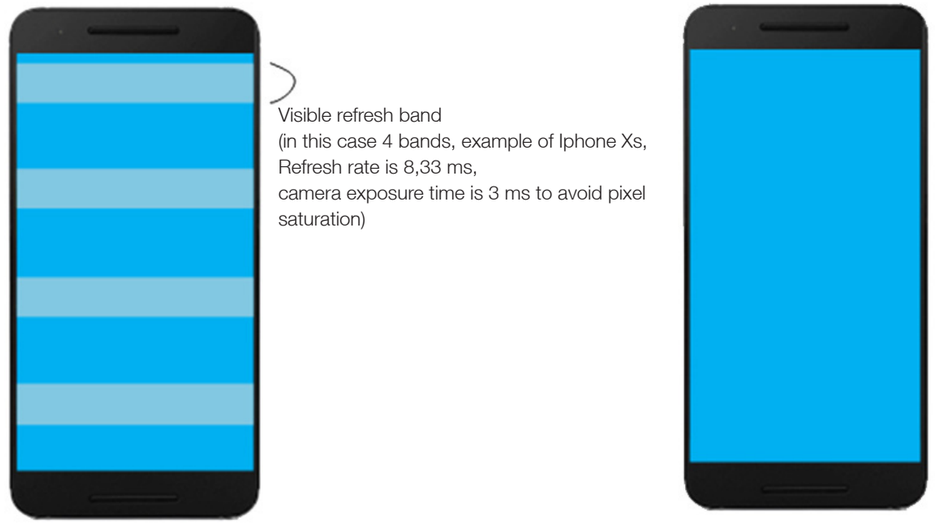
The S65 has a higher sensitivity, higher Quantum Efficiency, which allows for shorter exposure times when inspecting dark screens.

D-12A09

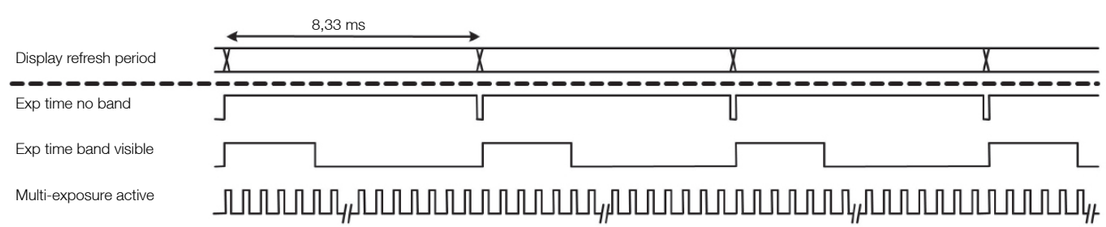
Multi exposure

Impact of OLED display refresh rate on uniformity inspection

Solution: multi exposure



Visible refresh band
(in this case 4 bands, example of Iphone Xs,
Refresh rate is 8,33 ms,
camera exposure time is 3 ms to avoid pixel saturation)



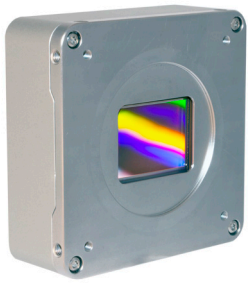
CMOS cameras for display module inspection

Model Specifications

(Detailed specifications are available on request)

	D-12A09	D-65A35 preliminary
Sensor	Sony Pregius IMX304	GPixel GMAX3265
Pixel size	3.45 µm x 3.45 µm	3.2 µm x 3.2 µm
Resolution	4096 x 3008	9344 (H) x 7000 (V)
Video output	GigE Vision V1.2	CoaXPress - V1.1.1 CXP3 or CXP6 1, 2, 4 lanes configurable
Max frame rate Sustained @ 8 bit full resolution	9+ fps (16 fps with averaging)	35 fps

* 2x CXP3 / 1x CXP6 / 2 x CXP6



Functionality

	D-12A09		D-65A35	
	◨		◨	
Frame averaging	√	√	-	-
Multi Exposure	√	√	-	-
One push white balance	-	√	-	√
Manual white balance	-	√	-	√
Dark and bright uniformity corrections	√	√	√	√
Low Frequency Flat Field Correction (LF FFC)	√	√	√	√
Sequential programmable LF FFC	√	√	√	√
User set data storage	√	√	√	√

√: Standard -: Not available

Pushing the limits

With over 25 years of experience, we make our customers more competive by manufacturing cameras that are optimally tailored to their application. We are commited to delivering the best camera solution possible to our customers.

Adimec

Adimec is the leading supplier of high-end cameras for machine vision, medical and outdoor imaging applications. Its patented Adimec True Accurate Imaging technology forms the foundation for its broad range of camera products, and brings new levels of precision and accuracy to vision systems. Adimec supports its products with customized and expert service to systems developers around the world.

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

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