

# PRODUCT CHANGE NOTIFICATION (PCN)

**PCN Number:** 06/2023  
**Title:** **New Firmware Features Light Control, Demosaicing Mode and Flash Window**  
**Product Family:** ace 2, Basler boost, dart IMX  
**Release date:** June 16, 2023  
**Contact:** Basler Support  
**Type of Change:**  
 **Miscellaneous**    **Firmware**    **PC Software**  
 **Product design**    **Process**

## Reason for Change

The camera features Light Control, Demosaicing Mode and Flash Window are available for Basler boost, ace 2 and dart cameras now.

Please see in the table below which feature is available for which camera family:

<b>Feature</b>	<b>Basler boost</b>	<b>dart IMX</b>	<b>ace 2 (USB &amp; GigE)</b>	<b>ace 2 5 GigE</b>
Light Control	new	no	new	new
Demosaicing Mode	new	new	new	new
Flash Window	new	new	new	new
Static Defect Pixel Correction	already available	no	already available	new

We also further improved the functionality of the cameras by including maintenance work and fixing bugs.

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## Change Description

### Light Control

The Light Control feature allows you to control up to 4 light devices.

The feature is based on the SLP protocol that enables cameras and light devices to communicate directly with each other.

If you use a Basler Standard Light or a LED lighting solution by another manufacturer, you need the Basler SLP Strobe Controller to enable the communication between the camera and the light.

If you use a Basler Camera Light, a separate controller isn't required as the controller features are already included.

For further information about this feature please look at our product documentation or contact the Basler Support.

### Demosaicing Mode

Demosaicing, also called debayering, is performed to generate RGB information from the color output of the image sensor.

The Demosaicing Mode camera feature allows you to change the method used for demosaicing. This can help to optimize image quality.

For further information about this feature please look at our product documentation or contact the Basler Support.

### Flash Window

You can use the Flash Window signal to determine when to use flash lighting. The signal indicates the period of time during a frame acquisition when all rows in the sensor are open for exposure.

For further information about this feature please look at our product documentation or contact the Basler Support.

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## Static Defect Pixel Correction

The Defect Pixel Correction camera feature allows you to minimize the influence of sensitivity differences of individual pixels of the sensor.

In acquired images, some pixels may appear significantly brighter or darker than the rest, even if uniform light is used. This problem is caused by differences in sensitivity of the individual pixels which in turn are due to production tolerances.

The Static Defect Pixel Correction is based on files that are stored on the camera and contain a list of defect pixel coordinates.

The following defect pixel correction files can be stored on the camera:

- Factory file: Contains the coordinates of defect pixels that were detected during camera production. With this file, the camera corrects pixels that have a significantly lower intensity value than the neighboring pixels, including completely black pixels.
- User file: Contains user-defined coordinates. You can upload this file to the camera. This allows you to define new defect pixels that might have occurred over time, regardless of whether these pixels are too dark or too bright.

For further information about this feature please look at our product documentation or contact the Basler Support.

## Affected models and expected first production / shipping date

	Model	Part Number	Revision	Production /shipping Date
Basler boost	boA4112-68cm - IMX253	107801	7	July 2023
	boA4112-68cc - IMX253	107802	7	July 2023
	boA4096-93cm - IMX255	107803	7	July 2023
	boA4096-93cc - IMX255	107804	7	July 2023
	boA5328-100cm - IMX530	108376	5	July 2023
	boA5328-100cc - IMX530	108377	5	July 2023
	boA4504-100cm - IMX531	108378	5	July 2023
	boA4504-100cc - IMX531	108379	5	July 2023

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	Model	Part Number	Revision	Production /shipping Date
	boA5320-150cm - IMX532	108380	5	July 2023
	boA5320-150cc - IMX532	108381	5	July 2023
	boA4096-180cm - IMX535	108668	6	July 2023
	boA4096-180cc - IMX535	108669	6	July 2023
	boA2832-190cm - IMX536	108670	6	July 2023
	boA2832-190cc - IMX536	108671	6	July 2023
	boA2448-250cm - IMX537	108672	6	July 2023
	boA2448-250cc - IMX537	108673	6	July 2023
	boA1936-400cm - IMX421	108674	6	July 2023
	boA1936-400cc - IMX421	108675	6	July 2023
	boA4500-45cm - XGS20000	108389	9	July 2023
	boA4500-45cc - XGS20000	108390	9	July 2023
	boA6500-36cm - XGS32000	108391	10	July 2023
	boA6500-36cc - XGS32000	108392	9	July 2023
	boA8100-16cm - XGS45000	108393	10	July 2023
	boA8100-16cc - XGS45000	108394	8	July 2023
ace 2 USB	a2A1920-160umBAS - IMX392	107820	24	July 2023
	a2A1920-160ucBAS - IMX392	107821	24	July 2023
	a2A1920-160umPRO - IMX392	107961	15	July 2023
	a2A1920-160ucPRO - IMX392	107962	14	July 2023
	a2A3840-45umBAS - IMX334	108014	15	July 2023
	a2A3840-45ucBAS - IMX334	108015	16	July 2023
	a2A3840-45umPRO - IMX334	108125	10	July 2023
	a2A3840-45ucPRO - IMX334	108126	10	July 2023
	a2A2590-60umBAS - IMX334ROI	108028	13	July 2023
	a2A2590-60ucBAS - IMX334ROI	108029	14	July 2023
	a2A2590-60umPRO - IMX334ROI	108129	10	July 2023
	a2A2590-60ucPRO - IMX334ROI	108130	10	July 2023
	a2A5328-15umBAS - IMX540	108115	13	July 2023

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Model	Part Number	Revision	Production /shipping Date
a2A5328-15ucBAS - IMX540	108116	12	July 2023
a2A5328-15umPRO - IMX540	108119	14	July 2023
a2A5328-15ucPRO - IMX540	108120	13	July 2023
a2A4504-18umBAS - IMX541	108161	14	July 2023
a2A4504-18ucBAS - IMX541	108162	13	July 2023
a2A4504-18umPRO - IMX541	108165	14	July 2023
a2A4504-18ucPRO - IMX541	108166	13	July 2023
a2A5320-23umBAS - IMX542	108171	14	July 2023
a2A5320-23ucBAS - IMX542	108172	13	July 2023
a2A5320-23umPRO - IMX542	108175	14	July 2023
a2A5320-23ucPRO - IMX542	108176	13	July 2023
a2A4096-30umBAS - IMX545	108408	9	July 2023
a2A4096-30ucBAS - IMX545	108409	9	July 2023
a2A4096-30umPRO - IMX545	108420	9	July 2023
a2A4096-30ucPRO - IMX545	108421	9	July 2023
a2A2840-48umBAS - IMX546	108412	9	July 2023
a2A2840-48ucBAS - IMX546	108413	10	July 2023
a2A2840-48umPRO - IMX546	108424	9	July 2023
a2A2840-48ucPRO - IMX546	108425	10	July 2023
a2A2448-75umBAS - IMX547	108416	9	July 2023
a2A2448-75ucBAS - IMX547	108417	10	July 2023
a2A2448-75umPRO - IMX547	108428	9	July 2023
a2A2448-75ucPRO - IMX547	108429	10	July 2023
a2A2600-64umBAS - GMAX2505	108370	10	July 2023
a2A2600-64ucBAS - GMAX2505	108371	10	July 2023
a2A2600-64umPRO - GMAX2505	108372	10	July 2023
a2A2600-64ucPRO - GMAX2505	108373	10	July 2023
a2A4200-40umBAS - GMAX2509	108362	10	July 2023
a2A4200-40ucBAS - GMAX2509	108363	10	July 2023

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	a2A4200-40umPRO - GMAX2509	108364	10	July 2023
	a2A4200-40ucPRO - GMAX2509	108365	10	July 2023
ace 2 GigE	a2A1920-51gmBAS - IMX392	107822	26	July 2023
	a2A1920-51gcBAS - IMX392	107823	26	July 2023
	a2A1920-51gmPRO - IMX392	107963	18	July 2023
	a2A1920-51gcPRO - IMX392	107964	18	July 2023
	a2A3840-13gmBAS - IMX334	108016	17	July 2023
	a2A3840-13gcBAS - IMX334	108017	18	July 2023
	a2A3840-13gmPRO - IMX334	108127	12	July 2023
	a2A3840-13gcPRO - IMX334	108128	12	July 2023
	a2A2590-22gmBAS - IMX334ROI	108030	16	July 2023
	a2A2590-22gcBAS - IMX334ROI	108031	17	July 2023
	a2A2590-22gmPRO - IMX334ROI	108131	12	July 2023
	a2A2590-22gcPRO - IMX334ROI	108132	12	July 2023
	a2A5328-4gmBAS - IMX540	108117	15	July 2023
	a2A5328-4gcBAS - IMX540	108118	14	July 2023
	a2A5328-4gmPRO - IMX540	108121	16	July 2023
	a2A5328-4gcPRO - IMX540	108122	15	July 2023
	a2A4504-5gmBAS - IMX541	108163	16	July 2023
	a2A4504-5gcBAS - IMX541	108164	15	July 2023
	a2A4504-5gmPRO - IMX541	108167	16	July 2023
	a2A4504-5gcPRO - IMX541	108168	15	July 2023
	a2A5320-7gmBAS - IMX542	108173	16	July 2023
	a2A5320-7gcBAS - IMX542	108174	15	July 2023
	a2A5320-7gmPRO - IMX542	108177	16	July 2023
a2A5320-7gcPRO - IMX542	108178	15	July 2023	
a2A4096-9gmBAS - IMX545	108410	10	July 2023	
a2A4096-9gcBAS - IMX545	108411	10	July 2023	
a2A4096-9gmPRO - IMX545	108422	10	July 2023	

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	a2A4096-9gcPRO - IMX545	108423	10	July 2023
	a2A2840-14gmBAS - IMX546	108414	10	July 2023
	a2A2840-14gcBAS - IMX546	108415	11	July 2023
	a2A2840-14gmPRO - IMX546	108426	10	July 2023
	a2A2840-14gcPRO - IMX546	108427	11	July 2023
	a2A2448-23gmBAS - IMX547	108418	10	July 2023
	a2A2448-23gcBAS - IMX547	108419	11	July 2023
	a2A2448-23gmPRO - IMX547	108430	10	July 2023
	a2A2448-23gcPRO - IMX547	108431	11	July 2023
	a2A2600-20gmBAS - GMAX2505	108366	11	July 2023
	a2A2600-20gcBAS - GMAX2505	108367	11	July 2023
	a2A2600-20gmPRO - GMAX2505	108368	11	July 2023
	a2A2600-20gcPRO - GMAX2505	108369	11	July 2023
	a2A4200-12gmBAS - GMAX2509	108358	11	July 2023
	a2A4200-12gcBAS - GMAX2509	108359	11	July 2023
	a2A4200-12gmPRO - GMAX2509	108360	11	July 2023
	a2A4200-12gcPRO - GMAX2509	108361	11	July 2023
	ace 2 5GigE	a2A4096-44g5cBAS - IMX545	108589	06
a2A4096-44g5mBAS - IMX545		108590	06	July 2023
a2A2840-67g5mBAS - IMX546		108591	06	July 2023
a2A2840-67g5cBAS - IMX546		108592	06	July 2023
a2A2448-105g5mBAS - IMX547		108593	06	July 2023
a2A2448-105g5cBAS - IMX547		108594	06	July 2023
a2A5328-22g5mBAS - IMX540		108631	06	July 2023
a2A5328-22g5cBAS - IMX540		108632	06	July 2023
a2A4504-27g5mBAS - IMX541		108633	06	July 2023
a2A4504-27g5cBAS - IMX541		108634	06	July 2023
a2A5320-34g5mBAS - IMX542		108635	06	July 2023
a2A5320-34g5cBAS - IMX542		108636	06	July 2023

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	Model	Part Number	Revision	Production /shipping Date
	a2A1920-165g5mBAS - IMX392	108908	04	July 2023
	a2A1920-165g5cBAS - IMX392	108909	04	July 2023
dart IMX	daA3840-45um - IMX334 No-Mount	108270	06	July 2023
	daA3840-45um - IMX334 S-Mount	108271	05	July 2023
	daA3840-45um - IMX334 CS-Mount	108272	05	July 2023
	daA3840-45uc - IMX334 No-Mount	108273	06	July 2023
	daA3840-45uc - IMX334 S-Mount	108274	05	July 2023
	daA3840-45uc - IMX334 CS-Mount	108275	05	July 2023
	daA1920-160um - IMX392 No-Mount	108229	07	July 2023
	daA1920-160um - IMX392 S-Mount	108230	06	July 2023
	daA1920-160um - IMX392 CS-Mount	108231	08	July 2023
	daA1920-160uc - IMX392 No-Mount	108232	07	July 2023
	daA1920-160uc - IMX392 S-Mount	108233	06	July 2023
	daA1920-160uc - IMX392 CS-Mount	108234	08	July 2023
	daA2448-70um - IMX548 No-Mount	108619	03	July 2023
	daA2448-70um - IMX548 S-Mount	108620	03	July 2023
	daA2448-70um - IMX548 CS-Mount	108621	03	July 2023
	daA2448-70uc - IMX548 No-Mount	108622	03	July 2023
	daA2448-70uc - IMX548 S-Mount	108623	03	July 2023
	daA2448-70uc - IMX548 CS-Mount	108624	03	July 2023
	daA720-520um - IMX287 No-Mount	108722	03	July 2023
	daA720-520um - IMX287 S-Mount	108723	03	July 2023
	daA720-520um - IMX287 CS-Mount	108724	03	July 2023
	daA720-520uc - IMX287 No-Mount	108725	03	July 2023
	daA720-520uc - IMX287 S-Mount	108726	03	July 2023
	daA720-520uc - IMX287 CS-Mount	108727	03	July 2023
	daA1440-220um - IMX273 No-Mount	108728	03	July 2023
daA1440-220um - IMX273 S-Mount	108729	03	July 2023	
daA1440-220um - IMX273 CS-Mount	108730	03	July 2023	

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	daA1440-220uc - IMX273 No-Mount	108731	03	July 2023
	daA1440-220uc - IMX273 S-Mount	108732	03	July 2023
	daA1440-220uc - IMX273 CS-Mount	108733	03	July 2023

Customized cameras based on the same product model might be affected, please contact the Basler Support for clarification.

## Additional Information

Basler may make changes to specifications and product descriptions at any time, without notice. The information in this document is subject to change without notice.

There is no claim to exchange or update the stock or the delivered goods due to the PCN. This applies to customer inventories as well as Basler's own inventory. Also there is no claim to receive the old revision after change.

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