

PCN Number: 05/2024
Title: **New Firmware Features interleaved HDR and Sensor Binning**
Product Family: ace 2, dart R
Release date: July 02, 2024
Contact: Basler Support
Type of Change:
 Miscellaneous Firmware PC Software
 Product design Process

Reason for Change

The camera features Sensor Binning and interleaved HDR will be available for ace 2 and dart cameras soon. In addition the ace2 5 GigE cameras will get the Sequencer feature which ace2 GigE and ace2 USB cameras already have.

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

Feature	dart R	ace 2 (USB & GigE)	ace 2 (5 GigE)
interleaved HDR	no	mono models with GMAX2505 GMAX2509 GMAX2518	no
Sensor Binning	mono models with IMX392 IMX273 IMX548	mono models with IMX392 IMX540 IMX541 IMX542 IMX545 IMX546 IMX547	mono models with IMX392 IMX540 IMX541 IMX542 IMX545 IMX546 IMX547
Sequencer	no	already available	new

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

Basler AG
Europe, Middle East, Africa
Tel. +49 4102 463 515
Fax +49 4102 463 599
support.europe@baslerweb.com
www.baslerweb.com

The Americas
Tel. +1 610 280 0171
Fax +1 610 280 7608
support.usa@baslerweb.com

Asia-Pacific Region
Tel. +65 6367 1355
Fax +65 6367 1255
support.asia@baslerweb.com

Change Description

Sensor Binning

The Binning camera feature allows you to combine sensor pixel values into a single value. This may increase the signal-to-noise ratio, the camera's response to light, or the frame rate.

On the camera models listed in above table, the BinningSelector parameter is now available. This parameter allows you to select whether to configure Sensor or FPGA binning.

Sensor binning has the following benefits:

- May increase the camera's frame rate
- Allows binning on color cameras

Sequencer

The Sequencer camera feature allows you to define sets of parameter settings and apply them to a sequence of images.

You can define up to 32 sets of parameter settings, called sequencer sets. As the camera receives trigger signals, it applies one sequencer set after the other.

For example, you can use the Sequencer feature to quickly change between preconfigured image ROIs or exposure times.

Interleaved HDR

You have the possibility for the Timed Exposure Mode to capture different stages (predefined regions of the camera sensor, e.g. camera lines) of an image with different exposure times.

Basler AG

Europe, Middle East, Africa

Tel. +49 4102 463 515

Fax +49 4102 463 599

support.europe@baslerweb.com

www.baslerweb.com

The Americas

Tel. +1 610 280 0171

Fax +1 610 280 7608

support.usa@baslerweb.com

Asia-Pacific Region

Tel. +65 6367 1355

Fax +65 6367 1255

support.asia@baslerweb.com

Affected models and expected first production / shipping date

	Model	Part Number	Revision	Production /shipping Date
ace 2 USB	a2A1920-160umBAS - IMX392	107820	26	CW30-CW32
	a2A1920-160ucBAS - IMX392	107821	26	CW30-CW32
	a2A1920-160umPRO - IMX392	107961	17	CW30-CW32
	a2A1920-160ucPRO - IMX392	107962	16	CW30-CW32
	a2A5328-15umBAS - IMX540	108115	15	CW30-CW32
	a2A5328-15ucBAS - IMX540	108116	14	CW30-CW32
	a2A5328-15umPRO - IMX540	108119	16	CW30-CW32
	a2A5328-15ucPRO - IMX540	108120	15	CW30-CW32
	a2A4504-18umBAS - IMX541	108161	16	CW30-CW32
	a2A4504-18ucBAS - IMX541	108162	15	CW30-CW32
	a2A4504-18umPRO - IMX541	108165	16	CW30-CW32
	a2A4504-18ucPRO - IMX541	108166	15	CW30-CW32
	a2A5320-23umBAS - IMX542	108171	16	CW30-CW32
	a2A5320-23ucBAS - IMX542	108172	15	CW30-CW32
	a2A5320-23umPRO - IMX542	108175	16	CW30-CW32
	a2A5320-23ucPRO - IMX542	108176	15	CW30-CW32
	a2A4096-30umBAS - IMX545	108408	11	CW30-CW32
	a2A4096-30ucBAS - IMX545	108409	11	CW30-CW32
	a2A4096-30umPRO - IMX545	108420	11	CW30-CW32
	a2A4096-30ucPRO - IMX545	108421	11	CW30-CW32
	a2A2840-48umBAS - IMX546	108412	11	CW30-CW32
	a2A2840-48ucBAS - IMX546	108413	12	CW30-CW32
	a2A2840-48umPRO - IMX546	108424	11	CW30-CW32
	a2A2840-48ucPRO - IMX546	108425	12	CW30-CW32
a2A2448-75umBAS - IMX547	108416	11	CW30-CW32	
a2A2448-75ucBAS - IMX547	108417	12	CW30-CW32	

Basler AG
Europe, Middle East, Africa
 Tel. +49 4102 463 515
 Fax +49 4102 463 599
 support.europe@baslerweb.com
 www.baslerweb.com

The Americas
 Tel. +1 610 280 0171
 Fax +1 610 280 7608
 support.usa@baslerweb.com

Asia-Pacific Region
 Tel. +65 6367 1355
 Fax +65 6367 1255
 support.asia@baslerweb.com

PRODUCT CHANGE NOTIFICATION (PCN)

	Model	Part Number	Revision	Production /shipping Date
	a2A2448-75umPRO - IMX547	108428	11	CW30-CW32
	a2A2448-75ucPRO - IMX547	108429	12	CW30-CW32
	a2A2600-64umBAS - GMAX2505	108370	13	CW30-CW32
	a2A2600-64ucBAS - GMAX2505	108371	13	CW30-CW32
	a2A2600-64umPRO - GMAX2505	108372	13	CW30-CW32
	a2A2600-64ucPRO - GMAX2505	108373	13	CW30-CW32
	a2A4200-40umBAS - GMAX2509	108362	12	CW30-CW32
	a2A4200-40ucBAS - GMAX2509	108363	12	CW30-CW32
	a2A4200-40umPRO - GMAX2509	108364	12	CW30-CW32
	a2A4200-40ucPRO - GMAX2509	108365	12	CW30-CW32
	a2A4508-20umBAS - GMAX2518	108456	07	CW30-CW32
	a2A4508-20ucBAS - GMAX2518	108457	07	CW30-CW32
	a2A4508-20umPRO - GMAX2518	108458	07	CW30-CW32
	a2A4508-20ucPRO - GMAX2518	108459	07	CW30-CW32
ace 2 GigE	a2A1920-51gmBAS - IMX392	107822	30	CW30-CW32
	a2A1920-51gcBAS - IMX392	107823	30	CW30-CW32
	a2A1920-51gmPRO - IMX392	107963	22	CW30-CW32
	a2A1920-51gcPRO - IMX392	107964	22	CW30-CW32
	a2A5328-4gmBAS - IMX540	108117	19	CW30-CW32
	a2A5328-4gcBAS - IMX540	108118	18	CW30-CW32
	a2A5328-4gmPRO - IMX540	108121	20	CW30-CW32
	a2A5328-4gcPRO - IMX540	108122	19	CW30-CW32
	a2A4504-5gmBAS - IMX541	108163	20	CW30-CW32
	a2A4504-5gcBAS - IMX541	108164	19	CW30-CW32
	a2A4504-5gmPRO - IMX541	108167	20	CW30-CW32
	a2A4504-5gcPRO - IMX541	108168	19	CW30-CW32
	a2A5320-7gmBAS - IMX542	108173	20	CW30-CW32
	a2A5320-7gcBAS - IMX542	108174	19	CW30-CW32
a2A5320-7gmPRO - IMX542	108177	20	CW30-CW32	

Basler AG

Europe, Middle East, Africa

Tel. +49 4102 463 515

Fax +49 4102 463 599

support.europe@baslerweb.com

www.baslerweb.com

The Americas

Tel. +1 610 280 0171

Fax +1 610 280 7608

support.usa@baslerweb.com

Asia-Pacific Region

Tel. +65 6367 1355

Fax +65 6367 1255

support.asia@baslerweb.com

PRODUCT CHANGE NOTIFICATION (PCN)



	Model	Part Number	Revision	Production /shipping Date
	a2A5320-7gcPRO - IMX542	108178	19	CW30-CW32
	a2A4096-9gmBAS - IMX545	108410	14	CW30-CW32
	a2A4096-9gcBAS - IMX545	108411	14	CW30-CW32
	a2A4096-9gmPRO - IMX545	108422	14	CW30-CW32
	a2A4096-9gcPRO - IMX545	108423	14	CW30-CW32
	a2A2840-14gmBAS - IMX546	108414	14	CW30-CW32
	a2A2840-14gcBAS - IMX546	108415	15	CW30-CW32
	a2A2840-14gmPRO - IMX546	108426	14	CW30-CW32
	a2A2840-14gcPRO - IMX546	108427	15	CW30-CW32
	a2A2448-23gmBAS - IMX547	108418	14	CW30-CW32
	a2A2448-23gcBAS - IMX547	108419	15	CW30-CW32
	a2A2448-23gmPRO - IMX547	108430	14	CW30-CW32
	a2A2448-23gcPRO - IMX547	108431	15	CW30-CW32
	a2A2600-20gmBAS - GMAX2505	108366	15	CW30-CW32
	a2A2600-20gcBAS - GMAX2505	108367	15	CW30-CW32
	a2A2600-20gmPRO - GMAX2505	108368	15	CW30-CW32
	a2A2600-20gcPRO - GMAX2505	108369	15	CW30-CW32
	a2A4200-12gmBAS - GMAX2509	108358	15	CW30-CW32
	a2A4200-12gcBAS - GMAX2509	108359	15	CW30-CW32
	a2A4200-12gmPRO - GMAX2509	108360	15	CW30-CW32
	a2A4200-12gcPRO - GMAX2509	108361	15	CW30-CW32
	a2A4508-6gmBAS - GMAX2518	108452	11	CW30-CW32
	a2A4508-6gcBAS - GMAX2518	108453	11	CW30-CW32
	a2A4508-6gmPRO - GMAX2518	108454	11	CW30-CW32
	a2A4508-6gcPRO - GMAX2518	108455	11	CW30-CW32
ace 2 5GigE	a2A4096-44g5cBAS - IMX545	108589	08	CW30-CW32
	a2A4096-44g5mBAS - IMX545	108590	08	CW30-CW32
	a2A2840-67g5mBAS - IMX546	108591	08	CW30-CW32
	a2A2840-67g5cBAS - IMX546	108592	08	CW30-CW32

Basler AG

Europe, Middle East, Africa

Tel. +49 4102 463 515

Fax +49 4102 463 599

support.europe@baslerweb.com

www.baslerweb.com

The Americas

Tel. +1 610 280 0171

Fax +1 610 280 7608

support.usa@baslerweb.com

Asia-Pacific Region

Tel. +65 6367 1355

Fax +65 6367 1255

support.asia@baslerweb.com

PRODUCT CHANGE NOTIFICATION (PCN)

	Model	Part Number	Revision	Production /shipping Date
	a2A2448-105g5mBAS - IMX547	108593	08	CW30-CW32
	a2A2448-105g5cBAS - IMX547	108594	08	CW30-CW32
	a2A5328-22g5mBAS - IMX540	108631	08	CW30-CW32
	a2A5328-22g5cBAS - IMX540	108632	08	CW30-CW32
	a2A4504-27g5mBAS - IMX541	108633	08	CW30-CW32
	a2A4504-27g5cBAS - IMX541	108634	08	CW30-CW32
	a2A5320-34g5mBAS - IMX542	108635	08	CW30-CW32
	a2A5320-34g5cBAS - IMX542	108636	08	CW30-CW32
	a2A1920-165g5mBAS - IMX392	108908	06	CW30-CW32
	a2A1920-165g5cBAS - IMX392	108909	06	CW30-CW32
	a2A2440-98g5mBAS - IMX250	109234	06	CW30-CW32
	a2A2440-98g5cBAS - IMX250	109235	06	CW30-CW32
dart R	daA1920-160um - IMX392 No-Mount	108229	09	CW30-CW32
	daA1920-160um - IMX392 S-Mount	108230	09	CW30-CW32
	daA1920-160um - IMX392 CS-Mount	108231	11	CW30-CW32
	daA1920-160uc - IMX392 No-Mount	108232	09	CW30-CW32
	daA1920-160uc - IMX392 S-Mount	108233	09	CW30-CW32
	daA1920-160uc - IMX392 CS-Mount	108234	11	CW30-CW32
	daA2448-70um - IMX548 No-Mount	108619	05	CW30-CW32
	daA2448-70um - IMX548 S-Mount	108620	06	CW30-CW32
	daA2448-70um - IMX548 CS-Mount	108621	06	CW30-CW32
	daA2448-70uc - IMX548 No-Mount	108622	05	CW30-CW32
	daA2448-70uc - IMX548 S-Mount	108623	06	CW30-CW32
	daA2448-70uc - IMX548 CS-Mount	108624	06	CW30-CW32
	daA1440-220um - IMX273 No-Mount	108728	05	CW30-CW32
	daA1440-220um - IMX273 S-Mount	108729	06	CW30-CW32
	daA1440-220um - IMX273 CS-Mount	108730	06	CW30-CW32
	daA1440-220uc - IMX273 No-Mount	108731	05	CW30-CW32
daA1440-220uc - IMX273 S-Mount	108732	06	CW30-CW32	

Basler AG

Europe, Middle East, Africa

Tel. +49 4102 463 515

Fax +49 4102 463 599

support.europe@baslerweb.com

www.baslerweb.com

The Americas

Tel. +1 610 280 0171

Fax +1 610 280 7608

support.usa@baslerweb.com

Asia-Pacific Region

Tel. +65 6367 1355

Fax +65 6367 1255

support.asia@baslerweb.com

PRODUCT CHANGE NOTIFICATION (PCN)



	Model	Part Number	Revision	Production /shipping Date
	daA1440-220uc - IMX273 CS-Mount	108733	06	CW30-CW32

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.

Basler AG

Europe, Middle East, Africa

Tel. +49 4102 463 515

Fax +49 4102 463 599

support.europe@baslerweb.com

www.baslerweb.com

The Americas

Tel. +1 610 280 0171

Fax +1 610 280 7608

support.usa@baslerweb.com

Asia-Pacific Region

Tel. +65 6367 1355

Fax +65 6367 1255

support.asia@baslerweb.com