

**PCN Number:** 01/2016  
**Release date:** April, 2016  
**Title:** Firmware Update  
**Contact:** Basler Support  
**Type of Change:**  
 Miscellaneous     **Firmware**     **PC Software**  
 **Product design**     **Process**

### Affected models and expected first production / shipping date

Series	Model	Part Number	Production / shipping Date
ace	acA1920-155um/uc	106879/106880	Expected: e/o April, 2016
	acA1920-50gm/gc	106877/106878	Expected: e/o April, 2016
	acA1920-40um/uc	106909/106910	Expected: e/o April, 2016
	acA1920-40gm/gc	106907/106908	Expected: e/o April, 2016
	acA640-750um/uc	106748/106749	Expected: May, 2016
	acA640-300gm/gc	106750/106751	Expected: May, 2016
	acA800-510um/uc	106764/106765	Expected: May, 2016
	acA800-200gm/gc	106766/106767	Expected: May, 2016
	acA1300-200um/uc	106752/106754	Expected: May, 2016
	acA1300-75gm/gc	106755/106757	Expected: May, 2016

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## Change Description

With the new firmware version, new features are brought to the listed cameras. In detail the following features were added:

Feature	Valid models
PGI	acA1920-155uc, acA1920-50gc, acA1920-40uc, acA1920-40gc, acA640-750uc, acA640-300gc, acA800-510uc, acA800-200gc, acA1300-200uc, acA1300-75gc
Sequencer	All models
GEV2.0 features (PTP)	acA1920-50gm/gc, acA1920-40gm/gc, acA640-300gm/gc, acA800-200gm/gc, acA1300-75gm/gc
Color Adjustment (Hue & Saturation)	acA1920-155uc, acA1920-40uc, acA640-750uc, acA800-510uc, acA1300-200uc
Exposure Mode: Trigger Width	All models
Digital Shift	acA1920-155um/uc, acA1920-50gm/gc, acA1920-40um/uc, acA1920-40gm/gc

For further information about the features, please refer to the website, the manual and the marketing material listed here:

### Features Check List:

[http://s.baslerweb.com/media/documents/BAS1602\\_Features\\_Check\\_List\\_e.pdf](http://s.baslerweb.com/media/documents/BAS1602_Features_Check_List_e.pdf)

### PGI:

<http://www.baslerweb.com/en/support/knowledge-base/pgi-feature-set>

### GEV2.0 Features:

[http://s.baslerweb.com/media/documents/BAS1601\\_White\\_Paper\\_Multi\\_Camera\\_applications\\_EN.pdf](http://s.baslerweb.com/media/documents/BAS1601_White_Paper_Multi_Camera_applications_EN.pdf)

### Color Adjustment:

[http://s.baslerweb.com/media/documents/BAS1206\\_White\\_Paper\\_Color\\_Calibration\\_e.pdf](http://s.baslerweb.com/media/documents/BAS1206_White_Paper_Color_Calibration_e.pdf)

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Also the following values of the cameras changed:

Value	Model	Old value	New value
Minimal exposure time	acA1920-155um/uc	30µs	20µs
	acA1920-50gm/gc	63µs	24µs
	acA1920-40um/uc	76µs	34µs
	acA1920-40gm/gc	76µs	34µs
	acA640-300gm/gc	110µs	80µs
	acA800-200gm/gc	110µs	80µs
	acA1300-75gm/gc	110µs	80µs
Exposure Start Delay	acA640-300gm/gc	8µs	5µs
	acA800-200gm/gc	8µs	5µs
	acA1300-75gm/gc	8µs	5µs
Power Consumption (max.) and via PoE for GigE models	acA1920-155um/uc	3,4W	3,7W
	acA1920-50gm/gc	3,4W	3,6W
	acA1920-40um/uc	2,6W	2,9W
	acA1920-40gm/gc	3,3W	3,4W
	acA640-750um/uc	3,2W	3,3W
	acA640-300gm/gc	3,4W	3,5W
	acA800-510um/uc	3,2W	3,3W
	acA800-200gm/gc	3,4W	3,5W
	acA1300-200um/uc	3,2W	3,3W
acA1300-75gm/gc	3,4W	3,5W	
Critical Temperature	acA1920-155um/uc	N/A	80°C
	acA1920-50gm/gc	N/A	80°C
	acA1920-40um/uc	N/A	80°C
	acA1920-40gm/gc	N/A	80°C
	acA640-750um/uc	77°C	80°C
	acA640-300gm/gc	77°C	80°C
	acA800-510um/uc	77°C	80°C
	acA800-200gm/gc	77°C	80°C
	acA1300-200um/uc	77°C	80°C
	acA1300-75gm/gc	77°C	80°C

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Over Temperature	acA1920-155um/uc	N/A	89°C
	acA1920-50gm/gc	N/A	89°C
	acA1920-40um/uc	N/A	89°C
	acA1920-40gm/gc	N/A	89°C
	acA640-750um/uc	80°C	89°C
	acA640-300gm/gc	80°C	89°C
	acA800-510um/uc	80°C	89°C
	acA800-200gm/gc	80°C	89°C
	acA1300-200um/uc	80°C	89°C
	acA1300-75gm/gc	80°C	89°C
Minimal AOI/ROI Size (Width)	acA640-750um/uc	256	16
	acA640-300gm/gc	256	16
	acA800-510um/uc	256	16
	acA800-200gm/gc	256	16
	acA1300-200um/uc	256	16
	acA1300-75gm/gc	256	16
Video Output Format	acA640-750uc & acA800-510uc & acA1300-200uc	Bayer BG8, Bayer BG 10, Bayer BG 10p	Bayer BG8, Bayer BG 10, Bayer BG 10p, Mono 8, RGB 8, BGR 8, YCbCr422_8
Video Output Format	acA1920-155uc acA1920-40uc	Bayer RG8, Bayer RG 12, Bayer RG 12p	Bayer RG8, Bayer RG 12, Bayer RG 12p, Mono 8, RGB 8, BGR 8, YCbCr422_8

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Binning Mode	acA1920-155um acA1920-40um	Summing	Summing or Averaging
	acA640-750um acA800-510um acA1300-200um	Summing	Averaging

For the confirmation of the framerates of every camera model, please use our framerate calculator on [www.baslerweb.com](http://www.baslerweb.com).

## 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.

Changes do not apply to custom cameras where different agreements are in place.