

Guppy PRO Firmware Release Notes

Guppy PRO F-031B/C

Guppy PRO F-032B/C

Guppy PRO F-033B/C

Guppy PRO F-046B/C

Guppy PRO F-095C

Guppy PRO F-125B/C

Guppy PRO F-146B/C

Guppy PRO F-201B/C

Guppy PRO F-503B/C

Document number: V4.0.0

[Note: This document number does not correspond with any firmware number.]

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Summary

This release note details the new features and bug fixes of the firmware of the **AVT Guppy PRO series** of cameras in relation to the earlier firmware versions listed above. This is intended to provide an indication of new features available with this release and the progress since the last major release.

Guppy PRO Firmware Release Notes

Microcontroller firmware

Release history

Release	Guppy PRO F-031B/C	Guppy PRO F-032B/C	Guppy PRO F-033B	Guppy PRO F-033C	Guppy PRO F-046B	Guppy PRO F-046C
Current firmware Current µC version Date	00.01.00.10 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025	00.01.00.11 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025	00.01.00.11 00.01.06.09 20121025
Predecessor firmware Predecessor µC Date	00.01.06.00 20120323	00.01.06.03 20120427	00.01.06.03 20120427	00.01.06.03 20120427	00.01.06.04 20120427	00.01.06.04 20120427
Initial firmware Initial µC Date	00.01.00.02 20101117	00.01.00.02 20101117	00.01.00.06 20120323	00.01.00.06 20120323	00.01.00.06 20120323	00.01.00.06 20120323

Release	Guppy PRO F-095C	Guppy PRO F-125B/C	Guppy PRO F-146B/C	Guppy PRO F-201B/C	Guppy PRO F-503B/C
Current firmware Current µC version Date	00.01.00.10 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025	00.01.00.10 00.01.06.09 20121025
Predecessor firmware Predecessor µC Date	00.01.00.06 00.01.06.05 20120710	00.01.06.00 20120323	00.01.06.00 20120323	00.01.06.00 20120323	00.01.06.00 20120323
Initial firmware Initial µC Date	00.01.00.06 00.01.06.05 20120710	00.01.00.01 20101112	00.01.00.03 20101126	00.01.00.03 20101126	00.01.00.04 20110217

Firmware 00.01.06.10 / 00.01.06.11 (Only Guppy PRO F-031B/C, F-033B/C, F-046B/C, F-095C and F-125B/C)

1.	Bug fixes: <ul style="list-style-type: none">● #GUPPYPRO-31 / GUPPYPRO-37 / GUPPYPRO-38: Corrected: After SoftReset camera could change color
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Firmware 00.01.06.10 / 00.01.06.11 (All Guppy PRO)

1.	Bug fixes: <ul style="list-style-type: none">● #GUPPYPRO-11 / GUPPYPRO-48: Corrected: First one-shot command might not be executed
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Firmware 00.01.00.06 (Only Guppy PRO F-095C)

1.	New camera: <ul style="list-style-type: none">● Guppy PRO F-095C
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Firmware 00.01.06.00 (all Guppy PRO cameras, but F-032B/C, F-033B/C, F-046B/C), 00.01.06.03 (only Guppy PRO F-032B/C, F-033B/C), 00.01.06.04 (only Guppy PRO F-046B/C)

1.	New cameras: <ul style="list-style-type: none">● Guppy PRO F-033B/C● Guppy PRO F-046B/C
2.	Bug fixes: <ul style="list-style-type: none">● #878: Corrected: Trigger mode presence bit was not read only (Bit 0 in 0xF0F00830h was writeable)● #969: Corrected: wrong gain settings after initialize command● #1012: Corrected: inversion IIDC of software trigger status (wrong: 1:Ready; 0: Busy corrected: 0: Ready; 1:Busy)● Guppy PRO F-125B/C: Corrected: first image was darker than the following images● Guppy PRO F-503B/C: Corrected: default min/max limit for auto shutter no longer overwrites greater/lower limits set by the user

3.	<p>Changed behavior:</p> <ul style="list-style-type: none"> ● Changed: min exposure time for: Guppy PRO F-031B/C (71µs to 75µs) Guppy PRO F-032B/C (27µs to 37µs) Guppy PRO F-125B/C (35µs to 39µs) Guppy PRO F-146B/C (31µs to 45µs) Guppy PRO F-201B/C (45µs to 55µs) ● Changed: image height unit size in F7 modes for Guppy PRO F-503B/C: (from 1 to 2)
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Firmware 00.01.03.00 (only Guppy PRO F-125B/C and F-031B/C)

1.	<p>Bug fixes:</p> <ul style="list-style-type: none"> ● #953: Fix to improve production yield.
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Firmware 00.01.00.05 (only Guppy PRO F-146B/C)

1.	<p>Bug fixes:</p> <ul style="list-style-type: none"> ● Corrected: Obvious subpulse during image scan at high gain and at activated gamma
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Firmware 00.01.01.00 (only Guppy PRO F-125B/C)

1.	<p>Bug fixes:</p> <ul style="list-style-type: none"> ● Fix to improve production yield. ● Corrected: Temperature drifts might have caused black images in certain cameras.
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FPGA firmware

Release history

Release	Guppy PRO F-031B/C	Guppy PRO F-032B/C	Guppy PRO F-033B	Guppy PRO F-033C	Guppy PRO F-046B	Guppy PRO F-046/C
Current firmware Current FPGA version Date	00.01.00.10 00.01.00.10 20121025	00.01.00.10 00.01.00.10 20121025	00.01.00.10 00.01.00.10 20121025	00.01.00.11 00.01.00.11 20121025	00.01.00.10 00.01.00.10 20121025	00.01.00.11 00.01.00.11 20121025
Predecessor firmware Predecessor FPGA Date	00.01.00.07 20120319	00.01.00.06 20120427	00.01.00.06 20120427	00.01.00.06 20120427	00.01.00.06 20120427	00.01.00.06 20120427
Initial firmware Initial FPGA Date	00.01.00.01 20101119	00.01.00.01 20101123	00.01.00.06 20120319	00.01.00.06 20120319	00.01.00.06 20120319	00.01.00.06 20120319

Release	Guppy PRO F-095C	Guppy PRO F-125B/C	Guppy PRO F-146B/C	Guppy PRO F-201B/C	Guppy PRO F-503B/C
Current firmware Current FPGA version Date	00.01.00.10 00.01.00.10 20121025	00.01.00.10 00.01.00.10 20121025	00.01.00.10 00.01.00.10 20121025	00.01.00.10 00.01.00.10 20121025	00.01.00.10 00.01.00.10 20121025
Predecessor firmware Predecessor FPGA Date	00.01.00.06 00.01.00.06 20120319	00.01.00.06 20120319	00.01.00.06 20120319	00.01.00.06 20120319	00.01.00.06 20120319
Initial firmware Initial FPGA Date	00.01.00.06 00.01.00.06 20120319	00.01.00.01 20101110	00.01.00.01 20101126	00.01.00.01 20101126	00.01.00.01 20110331

Firmware 00.01.00.10 (all Guppy PRO)

1.	Bug fixes: <ul style="list-style-type: none">● #GUPPYPRO-48: Corrected: First one-shot command might not be executed● Fix to improve update/boot reliability.
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Firmware 00.01.00.06 (only Guppy PRO F-095C)

1.	New camera model: <ul style="list-style-type: none">● Guppy PRO F-095C
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Firmware 00.01.00.06 (all Guppy PRO, but F-031B/C), 00.01.00.07 (only Guppy PRO F-031B/C)

1.	New camera models: <ul style="list-style-type: none">● Guppy PRO F-033B/C● Guppy PRO F-046B/C
2.	Bug fixes: <ul style="list-style-type: none">● #1022: Corrected: Guppy PRO F-031B/C, F-125B/C, F-146B/C: over triggering did stop the camera
2.	Changed behavior: <ul style="list-style-type: none">● Higher frame rates due to internal timing improvements for Guppy PRO F-031B/C (121 fps to 123 fps) Guppy PRO F-032B/C (79 fps to 82 fps) Guppy PRO F-125B/C (30 fps to 31 fps)

Firmware 00.01.00.04 (only Guppy PRO F-125B/C and F-031B/C)

1.	Bug fixes: <ul style="list-style-type: none">● #953: Fix to improve production yield.
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Firmware 00.01.00.02 (only Guppy PRO F-125B/C)

1.	Bug fixes: <ul style="list-style-type: none">● Fix to improve production yield.● Corrected: Temperature drifts might have caused black images in certain cameras.
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Firmware 00.01.00.03 (only Guppy PRO F-032B/C)

1.	Bug fixes: <ul style="list-style-type: none">● #915: Corrected: One-shot commands lead to two images
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Firmware 00.01.00.02 (only Guppy PRO F-032B/C)

1.	Bug fixes: <ul style="list-style-type: none">● #882: exposure time different to settings in external trigger mode
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Appendix

How to find out, which **firmware versions** your camera has: See Application Note **How to update Guppy/Guppy PRO/Pike/Stingray firmware**.

This application note and the firmware itself is only accessible for distributors. End customers have to contact technical support.