



# ULTRACAM

## Shutter Calibration Report

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UltraCam Lp, GSD25 cm, RGB



# **ULTRACAM**

## Shutter Calibration

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**Camera:** UltraCam Eagle  
**Serial:** UC-E-1-60411397-f80

**Panchromatic Camera:** 4 \* Prontor Magnetic 0  
Prontor-Werk Alfred Gauthier GmbH, Germany

**Multispectral Camera:** 4 \* Prontor Magnetic 0  
Prontor-Werk Alfred Gauthier GmbH, Germany

**Calibration Date:** Jan-28-2016  
**Shutter Calibration Date:** Mar-15-2018  
**Date of Report:** Mar-15-2018  
**Camera Revision:** Rev06.00  
**Version of Report:** V01



## Calibration of Shutter Release Times:

The shutter release times measured during the calibration describe the time from the moment when the electrical current through the shutter is turned off by the electronics, until the shutter is mechanically closed.

This time is relevant for the exposure control and needs to be known before image recording can take place.



Last valid shutter calibration:

Cone Number	Lens Serial Number	SRT F5.6 [ms]	SRT F6.7 [ms]	SRT F8 [ms]	SRT F9.5 [ms]	SRT F11 [ms]	SRT F13 [ms]	SRT F16 [ms]	SRT F22 [ms]	Measurement Tolerance [ms]
C0 (Pan)	12 16 05 78	11.71	11.89	12.63	13.19	13.48	13.57	14.03	14.81	+/- 0.2
C1 (Pan)	12 16 05 84	10.84	11.13	11.69	12.05	12.49	12.63	12.90	13.32	+/- 0.2
C2 (Pan)	12 15 42 91	11.45	11.88	12.38	12.80	13.16	13.50	13.68	14.20	+/- 0.2
C3 (Pan)	12 16 05 88	11.11	11.52	12.05	12.46	12.68	12.90	13.10	13.61	+/- 0.2
C4 (Red)	12 11 00 37	12.53	12.70	12.94	13.13	13.30	13.35	13.51	13.59	+/- 0.2
C5 (Green)	12 11 00 62	12.37	12.50	12.76	13.01	13.15	13.29	13.44	13.66	+/- 0.2
C6 (Blue)	12 12 06 28	12.61	12.63	12.65	12.77	13.05	13.27	13.45	13.72	+/- 0.2
C7 (NIR)	12 15 32 05	12.05	12.21	12.41	12.69	12.79	12.87	12.93	13.06	+/- 0.2

Currently valid shutter calibration:

Cone Number	Lens Serial Number	SRT F5.6 [ms]	SRT F6.7 [ms]	SRT F8 [ms]	SRT F9.5 [ms]	SRT F11 [ms]	SRT F13 [ms]	SRT F16 [ms]	SRT F22 [ms]	Measurement Tolerance [ms]
C0 (Pan)	12 16 05 78	11.71	11.89	12.63	13.19	13.48	13.57	14.03	14.81	+/- 0.2
C1 (Pan)	12 16 05 84	10.84	11.13	11.69	12.05	12.49	12.63	12.90	13.32	+/- 0.2
C2 (Pan)	12 15 42 91	11.45	11.88	12.38	12.80	13.16	13.50	13.68	14.20	+/- 0.2
C3 (Pan)	12 16 05 88	9.77	10.18	10.62	10.94	11.22	11.45	11.64	11.94	+/- 0.2
C4 (Red)	12 11 00 37	12.53	12.70	12.94	13.13	13.30	13.35	13.51	13.59	+/- 0.2
C5 (Green)	12 11 00 62	12.37	12.50	12.76	13.01	13.15	13.29	13.44	13.66	+/- 0.2
C6 (Blue)	12 12 06 28	12.61	12.63	12.65	12.77	13.05	13.27	13.45	13.72	+/- 0.2
C7 (NIR)	12 15 32 05	12.05	12.21	12.41	12.69	12.79	12.87	12.93	13.06	+/- 0.2



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## Summary

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<b>Camera:</b>	<b>UltraCam Eagle</b>
<b>Serial:</b>	<b>UC-E-1-60411397-f80</b>
<b>Calibration Date:</b>	<b>Jan-28-2016</b>
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<b>Version of Report:</b>	<b>V01</b>

The following calibrations have been performed for the above mentioned digital aerial mapping camera:

- Shutter Calibration

This equipment is operating fully within specification as defined by Vexcel Imaging GmbH.

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Vexcel Imaging GmbH

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