

Basler



RECOMMENDED ACCESSORIES FOR BASLER USB 3.0 CAMERAS

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1 Introduction

This document contains an overview over the accessories that have been proven to work well with Basler ace USB 3.0 cameras. In addition, the document gives general advice about selecting suitable accessories and using them.

The following kinds of accessories have been tested by Basler:

- USB 3.0 host controller cards with their specific host controller chipsets, firmware, and drivers
- USB 3.0 hubs
- USB 3.0 cables
- USB 3.0 active optical cables (AOC)

The accessories that were found to work well with Basler ace USB 3.0 cameras, are listed in [Chapter 2](#).

More accessories are constantly being tested and added to this document.



Basler strongly recommends using only accessories available from Basler. These have been thoroughly tested for optimum performance.

Basler USB 3.0 accessories are listed in Chapter 2 on [page 3](#) along with their order numbers.

For more information about accessories available from Basler and about purchasing, go to the Basler website: www.baslerweb.com

1.1 General Recommendations

To ensure smooth operation of your Basler ace USB 3.0 camera:

- Use accessories purchased from Basler. In addition, Basler strongly recommends to only use accessories that comply with the USB3 Vision standard and that have been certified by the USB Implementer's Forum, Inc. (USB-IF).
- Avoid using a hub unless necessary.
- Use a powered hub rather than a passive one.
- Use the port that provides the most stable connection. The performance of individual ports on a PC or hub can differ.
- When laying USB 3.0 cables, avoid unnecessary bending and coiling.
For moving applications or when bending or coiling can't be avoided, use drag chain-suitable cables.
- Basler recommends using Intel Haswell processor generations or higher.

For questions regarding specific application scenarios or maximum viable cable lengths, contact Basler Technical Support.

2 Recommended Accessories

As tested by Basler, the following accessories have been proven to work well with Basler ace USB 3.0 cameras (see also Chapter 1 on [page 1](#)).

Use Basler order numbers (see below) for ordering accessories from Basler.

Recommended USB 3.0 Host Controller Cards

Basler recommends using computers with Intel Ivy Bridge or higher processor generations.

Model	Controller Chipset	Driver Version: Indicated Version or Higher	Basler Order Number
USB 3.0 Card PCIe, Renesas, 1 HC, x1, SATA, 2 Ports	Renesas μ PD720202	3.0.23.0	2200000084
USB 3.0 Card PCIe, Renesas, 2 HC, x4, 2 Ports	Renesas μ PD720202	3.0.23.0	2200000079
USB 3.0 Card PCIe, Fresco FL1100, 1 HC, x1, 4 Ports	FrescoLogic FL1100	3.6.8.0	2200000069
USB 3.0 Card PCIe, Fresco FL1100, 4 HC, x4, 4 Ports	FrescoLogic FL1100	3.6.8.0	2000036233

Table 1: Recommended USB 3.0 Host Controller Cards

For more information about the maximum bandwidths provided by different host controller cards, see the *USB 3.0 Host Controllers' Maximum Bandwidth Measurements* application note (AW001260). You can download the document free of charge from the Basler website: www.baslerweb.com

Recommended Basler USB 3.0 Hub (with Associated Uplink Cable: Hub–PC)

Model	Basler Order Number
USB 3.0 Hub, 4 Ports side by side	2000036234

Table 2: Recommended Basler USB 3.0 Hub with Associated Uplink Cable

Recommended Basler USB 3.0 Cables (Downlink: Camera–PC or Camera–Hub) – ace Camera Models

Model	Length [m]	Basler Order Number
Cable USB 3.0, Micro B Screw Lock/A	1	2200000204
Cable USB 3.0, Micro B Screw Lock/A	3	2000033239
Cable USB 3.0, Micro B Screw Lock/A	5	2000033241
Cable USB 3.0, Micro B Screw Lock/A	8	2000034891
Cable USB 3.0, MicroB 90 A1 sl / A (angled downwards)	1	2000036369
Cable USB 3.0, MicroB 90 A1 sl / A (angled downwards)	3	2000035994
Cable USB 3.0, MicroB 90 A1 sl / A (angled downwards)	5	2000035995
Cable USB 3.0, Micro B 90 A1 sl / A, DrC	5	2000035316

Table 3: Recommended Basler USB 3.0 Cables for ace Camera Models

Recommended Basler USB 3.0 Cables (Downlink: Camera–PC or Camera–Hub) – dart & pulse Camera Models

Model	Length [m]	Basler Order Number
Cable USB 3.0, Micro B / A	1	2000035131
Cable USB 3.0, Micro B / A	3	2000035315
Cable USB 3.0, MicroB 90 A3 / A	1	2000035891
Cable USB 3.0, MicroB 90 A3 / A	3	2000035892
Cable USB 3.0, MicroB 90 A3 / A	5	2000035929

Table 4: Recommended Basler USB 3.0 Cables for dart & pulse Camera Models

Recommended Basler USB 3.0 Active Optical Cables

Model	Length [m]	Basler Order Number
Cable USB 3.0, Ext. A female / A male	10	2000036231
Cable USB 3.0, Ext. A female / A male	20	2000036232

Table 5: Recommended Basler USB 3.0 Active Optical Cables

All cables listed in Table 3 on [page 4](#) and Table 4 on [page 4](#) are compatible with the active optical cables listed above.

Within certain limits, the Basler USB 3.0 active optical cables are drag chain-suitable. For more information, please refer to the technical specifications document (DG001595). You can download the document free of charge from the Basler website: www.baslerweb.com

Revision History

Doc. ID Number	Date	Changes
DG00111501000	20 Feb 2014	Initial release of this document.
DG00111502000	01 Sep 2014	Updated part numbers and descriptions of the recommended USB 3.0 host adapters.
DG00111503000	13 Dec 2016	Updated cover photo. Updated list on page 1 . Removed non-Basler cards from Table 1 on page 3 and updated information for Basler host controller cards. Updated Table 2 on page 4 . Added Table 3 on page 4 and Table 4 on page 4 to show cables per camera model. Added Table 5 on page 5 .
DG00111504000	11 Sep 2018	Added 2200000204 and 2000034891 cables in Table 3 on page 4 .