

Basler GigE Starter Kit ace 2

GETTING STARTED GUIDE

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1 Introduction

This *Getting Started Guide* considers the components that are included in the starter kit for one ace 2 GigE camera. The components are essential for camera operation and are designed for use with a Basler ace 2 GigE camera only.

The *Getting Started Guide* informs about the scope of delivered components and provides related precautions. The *Getting Started Guide* does usually not include detailed specifications and information about installing and using the components. This information is available in the user documentation indicated in [Chapter 4](#) of this document.

2 Scope of Delivered Components

The scope of delivered components is as shown below. Some components can also be ordered individually (see order numbers in Table 1).

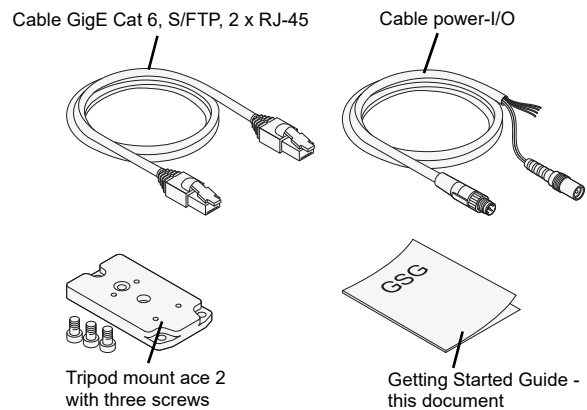


Fig. 1: Delivered Components; Not to Scale

Component	Order Number
Cable GigE Cat 6, S/FTP, 2 x RJ-45 (Data)	2000030284
Cable Power-I/O (I/O and AUX Power)	N/A
Tripod Mount ace 2 - Camera Mount Adapter with Three Screws	2200000314
This Getting Started Guide	N/A

Table 1: Component Names and Related Order Numbers

3 Precautions

NOTICE

A damaged cable can cause camera malfunction.

If the GigE data cable or power-I/O cable is damaged, the camera may not operate as intended.

Avoid for instance the following:

- Putting heavy mechanical loads on the cable
- Bending to less than the minimum specified radius
- Pulling a plug by pulling on the cable

If a cable or cable plug is damaged, stop camera operation and replace the cable.

NOTICE

An incorrect component can cause camera malfunction.

Do not modify any of the supplied components.

4 Specifications and Requirements

The *Basler Product Documentation* (BPD) provides Information for using the starter kit's components for camera installation and operation. This documentation is available on: www.baslerweb.com.

Detailed information for the GigE Cat 6, S/FTP, 2 x RJ-45 cable and the tripod mount adapter can be downloaded from the Basler website. Specifications for the power-I/O cable and requirements for the power supply to be used with the power-I/O cable, are given below.

4.1 Power-I/O Cable Specifications

The power-I/O cable includes an M8 6-pin plug on the camera end and on the other end a coaxial power plug for the power supply (AUX power) and an open end for I/O.

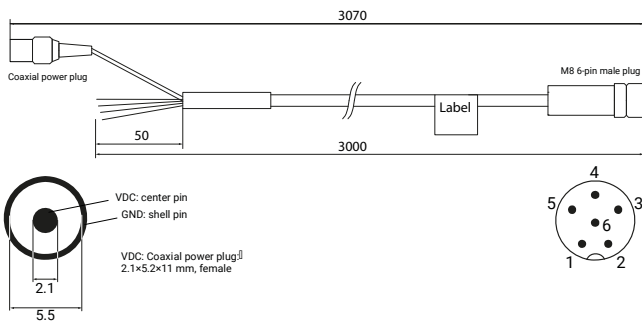


Fig. 2: Cable Overview with Dimensions [mm] and Plug Details; Not to Scale

Pin Number	Wire Color	Function
1		AUX power
2	White	Opto-coupled I/O, Line 1
3	Blue	Ground for opto-coupled I/O
4	Black	GPIO I/O, Line 2
5	Gray	GPIO I/O, Line 3
6		Ground for AUX power and GPIO

Table 2: Wiring Information and Pin Assignments

Category		Specification
Max. Operating Voltage		As required and allowed by the camera: see BPD
Max. Rated Current		1.5 A
Operating Temperature Range		0 °C – 40 °C
Operating Relative Humidity Range; Non Condensing		20 % – 80 %
Cable Diameter		5.0 mm
Min. Bending Radius (Outer Radius, Static)		25 mm
Suitable for Drag Chain/Robotics Applications		No
Connector on Camera Cable End		M8 6-pin plug, male, A coding
Connector on Power Supply End (AUX Power)		Coaxial power plug, 2.1×5.5×11 mm, female
I/O Wires	Wires for Pin Numbers 2, 3, 4, 5	No connector, open end
	Wire Diameter	0.25 mm ²
	Wire Insulation	PP
	Outer Jacket	PUR, black
M8 Plug	Min. Number of Mating Cycles	100
	Contact Plating	Ni/Au
	Insulation Material	TPU
Co-axial Power Plug	Inner Diameter of Shell	5.5 mm
	Outer Diameter of Center Pin	2.1 mm

Table 3: Specifications for Power-I/O Cable and Plugs

4.2 Power Supply (AUX Power) Requirements

The power supply that you will use to supply AUX power via the power- I/O cable, must meet the following requirements.

Category	Requirement
DC Output: Voltage	24 VDC
Max. Rated Power	30 W
Operating Temperature Range	In accord with ranges of camera and components.
Operating Relative Humidity Range	In accord with ranges of camera and components.
Receptacle (Interface with Power-I/O Cable)	Compliant with coaxial power plug, 2.1×5.5×11 mm female; see above; center pin: VDC
Safety	Must meet the SELV (Safety Extra Low Voltage) and LPS (Limited Power Supply) requirements.
Protection	Over current, over voltage, short circuit

Table 4: Power Supply Requirements