



# QUICK START GUIDE

FOTONIC CAMERA

English **EN**



### THANK YOU FOR PURCHASING A FOTONIC PRODUCT!

The FOTONIC Camera is optimised to meet the high requirements set by modern industry. The camera has inbuilt functions that assure compatibility with many applications.

### BEFORE CONNECTING YOUR CAMERA

Please read the complete Quick Start Guide and observe any notes and warnings prior to connecting Your camera. Please download the software and register Your camera by sending an e-mail to [registration@fotonic.com](mailto:registration@fotonic.com).

## INTRODUCTION

This Quick Start Guide, is a brief guide for the assembly, installation and commissioning of the FOTONIC Camera.

Carefully read through the documentation, as it is your guide to quickly, easily and safely starting to use your camera. The Quick Start Guide is intended for users and technicians as well as others who come into contact with the product.

## DISTRIBUTION AND STORAGE OF DOCUMENTATION

The documentation is to be distributed to individuals concerned and kept for future use. If the documentation is lost, acquire a new copy, see [www.fotonic.com](http://www.fotonic.com).

## INTENDED USE

The FOTONIC Camera is a time-of-flight camera that measures distance, movement and form, by recording the distance to the motive in every pixel. The FOTONIC Camera can be used, for example, for surveillance, control and metering in industry.

The FOTONIC Camera has been developed for industrial use.

## GUARANTEE AND CLAIMS

Fotonic guarantees that the FOTONIC Camera complies with the specifications in the technical specifications and product documentation.

A guarantee is provided for the FOTONIC Camera pursuant to current EU norms, on the condition that:

- the camera is used and maintained in accordance with the instructions in the product documentation
- the camera is used and maintained by professional and trained personnel
- original parts are used during the guarantee period

Fotonic is not liable for problems after repairs or modifications carried out by the user. The manufacturer does not accept any form of guarantee liability for damage that is caused by incorrect use. For more information about the guarantee and claims, see [www.fotonic.com](http://www.fotonic.com).

## TECHNICAL SUPPORT

In the event that technical support is needed, see [www.fotonic.com](http://www.fotonic.com).

## ACCESSORIES AND SPARE PARTS

Accessories and spare parts are ordered from Fotonic or the dealer, see [www.fotonic.com](http://www.fotonic.com).

# SAFETY INSTRUCTIONS

## EXPLANATION OF THE WARNING LEVELS

Cautionary texts on personal safety are classed into two levels and are depicted as shown below in the documentation.



Warning

An accident may occur, if the instructions are not followed.  
Accidents may cause personal injury or even death.



Caution

An accident may occur, if the instructions are not followed.  
Accidents may cause personal injury.

Cautionary texts on other safety issues are depicted as shown below in the documentation.

Important!

An accident may occur, if the instructions are not followed.  
Accidents may cause damage to property, processes or surroundings.

Comment!

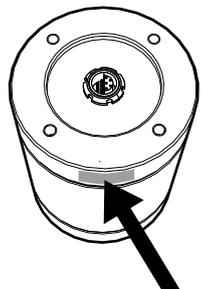
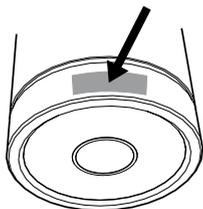
Comments provide extra information that can help understand a given element and use of the product.

## EXPLANATION OF THE WARNING STICKERS

### Eye safety

The camera's laser operates with light at wavelength that is invisible, which can be perceived at a varying degree as heat both in the eyes and on the skin.

The FOTONIC Camera has been tested and it complies with IEC 60825-1 Edition 2 2007-03, class 1. The laser beam is safe for all use. As a precautionary method however, we recommend never looking directly at the front of the camera and the laser beam.



## RISKS

The manufacturer is not liable for personal injury or damage to property that may be caused by the user, or another person, not complying with the recommendations, warnings and instructions to be found in this or other product documentation. In the event of any uncertainties about the product's area of application, please consult Fotonic or your dealer.

### Risk for personal injury



Warning

An unshielded laser beam can cause eye injuries. Never use a damaged camera and do not open the camera housing. Only authorised technicians may repair the camera.



Warning

Fires can be initiated when used in certain demanding environments. Do not use in the vicinity of easily flammable materials or environments where there is a risk of explosion. Do not use in or in the vicinity of wet spaces.



Caution

The FOTONIC Camera is connected to the main supply. Observe statutory requirements and safety regulations when working with electrical systems.



Caution

A laser beam can cause eye injuries. Do not look at the front of the camera and the laser beam through an optical instrument.



Caution

Always connect the FOTONIC Camera and connected computer to an earthed socket to assure good functioning and safety.



Caution

The FOTONIC Camera produces heat during use, which can cause burns. Do not touch with unprotected skin.



Caution

Prevent electrical shocks or fire by only using undamaged cables and adapter.

### Risk for damage to property

Important!

The FOTONIC Camera's electromagnetic radiation can cause disturbance in other electrical equipment.

Important!

Only use the enclosed AC adapter. The use of another adapter may cause operating problems and short-circuits.

Important!

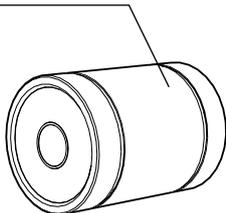
If the camera starts to move, damage may be caused to the camera and other equipment. Mount the FOTONIC Camera in a secure and correct manner.

Important!

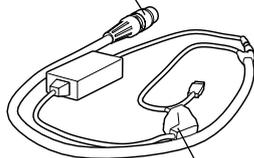
The FOTONIC Camera produces heat during use. Do not cover the camera, as it may then overheat.

## CONTENTS ON DELIVERY

FOTONIC Camera



Camera cable



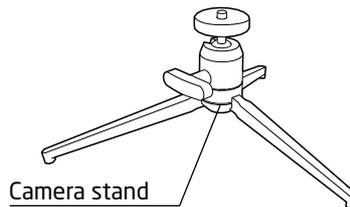
Power cable

The sales package includes the FOTONIC Camera, camera cable, power cable and Quick Start Guide.

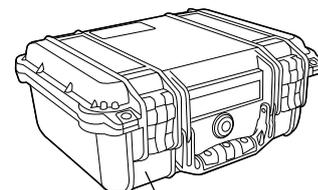
Quick Start Guide



## ACCESSORIES



Camera stand



Camera case

## UNPACKING

The packaging material has to be collected together and deposited at suitable collection point. Check the local ordinances and regulations on recycling and waste management, by contacting the local authorities or the closest recycling station.

Please register Your product by sending the serial number (S/N) to: [registration@fotonic.com](mailto:registration@fotonic.com). You will receive information about how to download the necessary software.

## INSTALLATION AND ASSEMBLY

### DOWNLOADING SOFTWARE

Please register Your product by sending the serial number (S/N) to: [registration@fotonic.com](mailto:registration@fotonic.com). You will receive information about how to download the necessary software. The installation file consists of documentation and sample software including source code. The software can be used to develop your own software with desired functions.

### INSTALLATION OF THE SOFTWARE

The downloaded installation file must be installed on the host computer, before the camera can be localised by the computer. Install the software on the computer, before the camera is connected to the computer.

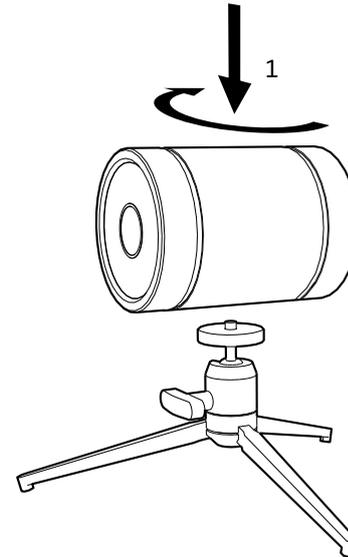
The FOTONIC Camera supports the operating systems Windows XP (32 bit), Windows Vista (32/64 bit), Windows 7 (32/64 bit) and Linux.

Administrator rights are required for installation.

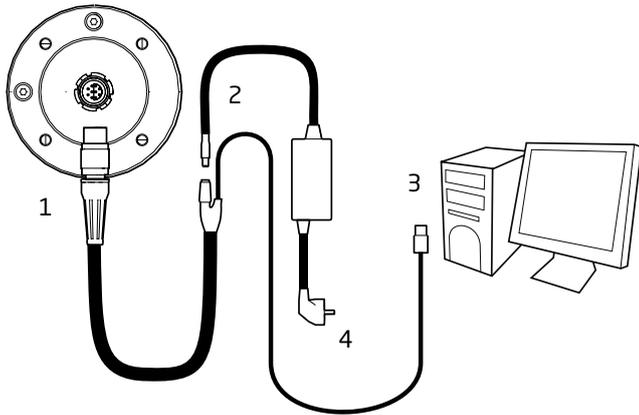
**Comment!** The Fotonic Camera requires Ethernet port to work correctly.

## ASSEMBLY AND CONNECTION

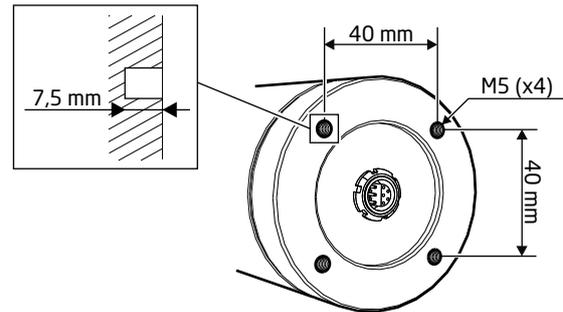
See the Safety Instructions on page 4, before you start the assembly and connection.



1. Screw the camera securely into the camera stand.



1. Connect the camera cable to the camera.
2. Connect the power cable to the camera cable.
3. Connect the Ethernet cable to the computer, or to a switch.
4. Connect the camera's power cable to a wall socket.
5. After a few seconds the camera can be found by the computer.



If the camera holder and stand are not used, the FOTONIC Camera can be secured by using four screws (M5), which are fastened in the rear of the camera. The four screw holes on the rear of the camera are placed with a separation of ca 40 mm. Do not screw the screws in more than 7,5 mm. If they are screwed in further, the camera may be damaged.

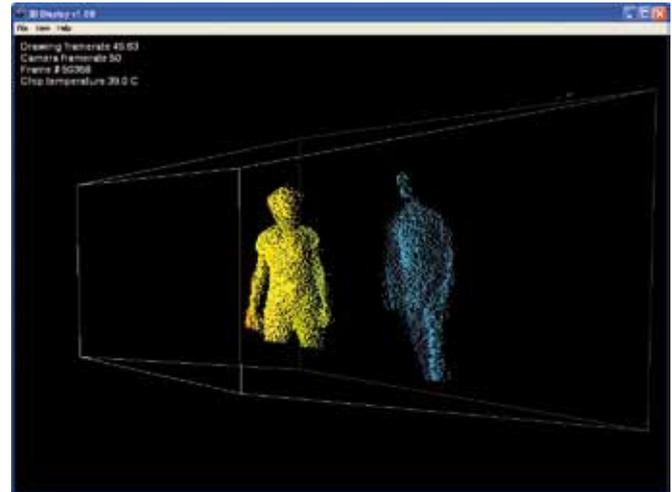
## FIRST STEPS

Point the camera at a measurement object at a suitable distance, see the product specification.

Run the test program 3D Display.

1. Start the program Start >Program.
2. The program starts and automatically gives a test image.
3. Fine tune the measurement performance by selecting different modes, filters, shutter and frame rate.

For more information about the product, see the documentation that accompanies the software.



## FAULTFINDING

The camera does not give an image.

Check that the power cable and the Ethernet cable are connected.

The computer cannot find the camera.

Make sure that the camera is connected to the computer or to the same network as the computer. The FOTONIC Camera supports the operating systems Windows XP (32 bit), Windows Vista (32/64 bit), Windows 7 (32/64 bit) and Linux.

The camera does not work correctly.

Check if the camera works correctly on another computer. If the same fault occurs, the camera may be damaged. Contact customer service at [www.fotonic.com](http://www.fotonic.com).

## COMPLIANCE WITH EU DIRECTIVES

Fotonic hereby confirms that this product complies with the requirements and terms of the EU directives 2002/95/EC, 2002/96/EC, 2004/108/EC and 2006/95/EC.

Required technical documents can be obtained from [info@fotonic.com](mailto:info@fotonic.com).



## WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

In the European Union, waste from electrical and electronic equipment (WEEE) is now subject to regulation designed to prevent the disposal of such waste and to encourage prior treatment measures to minimise the amount of waste ultimately disposed.

The objective of this regulation is to preserve, protect and improve the quality of the environment, protect human health, and utilise natural resources prudently.

To help in the proper handling of electronic products at the end of their useful life, Fotonic requests you return those products using the instructions provided here, so that the products can be collected, dismantled for reuse and recycled, or properly treated.

Please send e-mail to [support@fotonic.com](mailto:support@fotonic.com) whereas a Fotonic representative will provide you with information as to how to return the product.

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