

Vision System Quest Pro

Description

The Vision System Quest Pro, hereafter called "QuestPro", is a device for measuring the statistical distribution of coated seeds within a lot under laboratory conditions. Coating and seed geometry is measured with a camera. A light barrier is used to trigger the flash light and the camera to capture the free falling seeds. To get a sharp and distortion free image, a telecentric lens is used together with a very short flash on time.



Camera

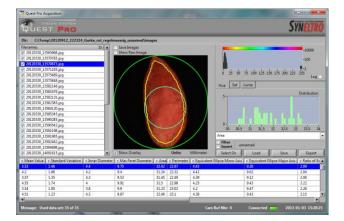
The camera is a GigE color camera from Allied Vision Technologies. The camera can be connected to a WLAN network or directly to a computer.

Flash Controller

After a trigger signal has been generated by the light barrier, the flash controller generates all the timings needed to capture an image. A high speed current source guaranties very accurate exposure time to keep illumination on all the images the same. The image is then transferred to a computer for further processing of the image.

Software

The data are analyzed and statistically visualized by the software to generate reports and to compare different data sets.





Technical Data

Camera S	System
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Туре:	AVT GC655C
Resolution:	659 x 493pixel
Pixel Size	9.9 x9.9 μm
Voltage:	12Vdc (5V to 16V)
Power	less than 3W
Objective:	SILL TZM 0199/0.2-C

12Vdc

500mW

IR (890nm)

Flash Controller

Vdc
0mW
to 75Vdc
Ous

Flash Light

Type: Light Color: LED Ring Light White

General

Voltage:

Power:

Light:

Light Barrier

Working Temperature:	10 to 50°C
Max. Humidity:	80% rel. up to 31°C (not condensing), linear decreasing to 50% until 40°C
Weight:	6.6kg
Usage:	For indoor use only, up to 2000m above sea level

Dimension

