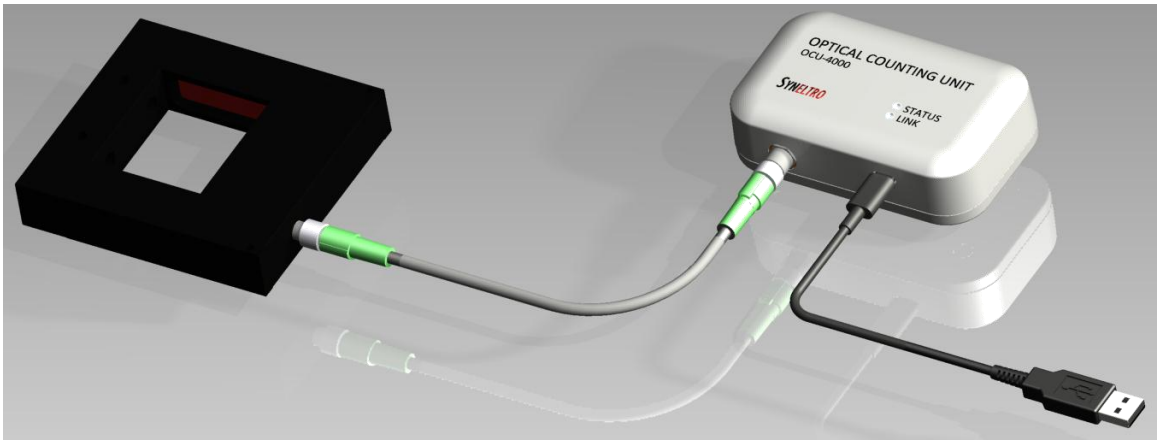
OCU-4000 (Optical Counting Unit) Data Sheet

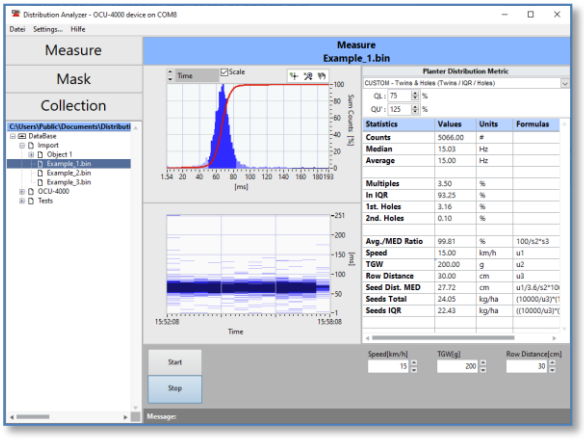


Description

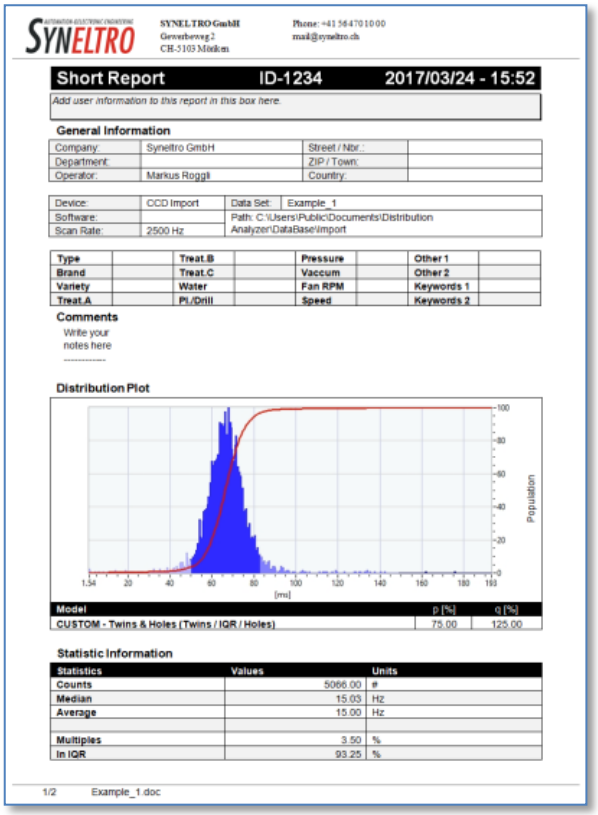
The OCU-4000 system is used to record chronological, temporal sequences of objects that pass a sensor. The system consists of an interface which transmits the data to the computer and the light barrier sensor which detects the objects. The system is used in applications where exact seeding regularity is important.

All objects are counted with the precise time of passage. These different time stamps are cumulated in a histogram which shows the exact distribution of the measured time series.

The software “Distribution Analyzer“ analyzes all data and represents it to the user in form of MS Word-based reports. All data sets are stored on the computer and can be compared to each other with statistical models.



The reports are based on templates and can be customized to the needs of the user. For the reports, a valid MS Office license is required on the computer.



With the implemented export options, the data can also be further analyzed and processed with third-party tools.

Technical Data

OCU-4000 Interface

Operating Voltage:	4.8V_{DC} to 5.2V_{DC}
Current:	< 500mA (with sensor)
Time Resolution:	250us
USB Mode:	Full-Speed, 12Mbps
Connector 1:	USB-C
Connector 2:	M8, female, 3pol.
Weight:	82g
Sealing Class:	IP65

Light Barrier

Operating Voltage:	24V_{DC} ± 20%
Power Consumption:	1.7W max
Type:	Frame Sensor
Light:	Infrared (880nm)
Output Type:	PNP
Connector:	M8, male, 3pol.
Weight:	282g
Sealing Class:	IP67

Computer Requirement

Operating System:	MS Windows 7, 8, 10
CPU:	i5 or newer
Memory:	at least 8 GB RAM
HD Storage:	50 GB free space

General

Storage Temperature:	-20 to 80°C
Operating Temperature:	0 to 60°C
Power:	Over USB-C port (< 2.5Watt)

Dimensions

Units are in mm