

# HELIOS ANALYTICS

Helios Analytics PRGSIGHELANA1 / 4107



## Professional management, monitoring and presentation of solar tracker

System management, monitoring, remote diagnosis, data adjusting and visualization: the Helios Analytics is the high-performance communication hub for single- to small-scale of solar trackers. It continuously display all the data from the solar trackers on the system side, thereby keeping you informed of the system's status at any given time. The Helios Analytics is a multi-functional, energy-efficient data system which offers importing and exporting settings data for solar trackers.

## Overview

### Safe

- Remote monitoring, diagnosis and configuration of the solar trackers
- Quick detection of malfunctions and notification in case of a failure
- Powerful data system for importing and exporting all trackers setting data

### User-friendly

- Central administration of all customer and tracker data
- Easy remote access via PC
- Easy to understand reporting



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## Technical Capabilities

### Languages

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Software language        | English                                              |
| Language versions manual | German, English, French, Italian, Spanish, Slovenian |

### System requirements

|                             |                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported operating systems | Windows XP (installed version of Microsoft .NET Framework > 2.0 is required with 64 bit systems), Windows Vista (32-Bit and 64-Bit), Windows 7 (32-Bit and 64-Bit) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Hardware (minimum requirements)

|                      |                                          |
|----------------------|------------------------------------------|
| Processor            | PIII 800 MHz (XP) / P4 1 GHz (Vista)     |
| Main Memory          | 512MB (XP) / 1 GB (Vista)                |
| Free hard disk space | 265 MB (240 MB .Net / 25 MB application) |
| Resolution           | 1024 x 768 pixels                        |
| Color depth          | 256 colors                               |

### Communication

|                       |                                |
|-----------------------|--------------------------------|
| Tracker communication | USB 2.0, CAN BUS 2.0 A         |
| Type                  | IP address, URL (e.g., DynDns) |

### Max. number of devices

|                         |                         |
|-------------------------|-------------------------|
| USB 2.0 / CAN BUS 2.0 A | 1 / up to 2000 trackers |
| RS485 / Ethernet        | /                       |

### Max. communication range

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| USB 2.0 / CAN BUS 2.0 A | 5 m / 500 m (Twisted Pair Cable with cross section 0,7 mm <sup>2</sup> ) |
| RS485 / Ethernet        | /                                                                        |

### Software

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Type                         | Exe                                                      |
| Other                        | Zip                                                      |
| Client Software Requirements | No installation-dependent requirements for the operation |

### System information

|                       |                                                                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tracker overview      | Ideally suited for an overview over the solar tracker by presentation of the most important data                                                                                                                                  |
| System settings       | Simple parameter setting for an entire device                                                                                                                                                                                     |
| Current system values | Summary of current device data. The display of minimum and maximum values, sums and averages (depicted for every device category) provides the operator with detailed information about the current status of their solar tracker |

### Device information

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Device overview       | The most important device information at a single glance          |
| Device settings       | Individual parameter adjustment for each device                   |
| Current device values | Detailed information on the current values of the selected device |

### Information displayed

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| General information | Time, date                                                                                        |
| System Data         | Power supply voltage, current motion, position, error codes, angle, tracker version, tracker type |

### Advanced System Data

|                 |                                                                                                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor A         | A1, A2, A3, A4, A5, A6, B1, B2, min range A, max range A, gear ratio A, I motor max A, coordinate mode A, geometry mode A, I motor factor A, night position A, go to reference A                    |
| Motor B         | A1, A2, A3, A4, A5, A6, B1, B2, min range B, max range B, gear ratio B, I motor max B, coordinate mode B, geometry mode B, I motor factor B, night position B, go to reference B                    |
| Common settings | Night position time, link, U supply factor, group, conf. flags, SN1, SN2, SN3, can ID, options, run, delay n.p., run delay, panel wide, panel space, rtc correction, H target angle, V target angle |

### Individual set-up options

|        |                                                               |
|--------|---------------------------------------------------------------|
| Values | Three configurable pre-defined positions for snow, wind, etc. |
|--------|---------------------------------------------------------------|

### The weather station for PV plants

|                       |   |
|-----------------------|---|
| Current system values | / |
|-----------------------|---|