HOW TO SETUP HELIOS ANALYTICS

STEP-BY-STEP INSTRUCTIONS:

1. Download Helios analytics from

http://www.solar-kit.com/tracker-solaire/suiveur-solaire/Logiciel-de-pilotage-Helios to C:\Users\USER\Downloads

- 2. Extract downloaded file to disk C:\Program Files (x86)\HELIOS
- 3. **Run or open HeliosAnalytics.exe** from the folder where all other original files and folders are. If you want to run from desktop, make shortcut on desktop! Do not copy this file on desktop, because will not work!

File System Update Support	
COM6 Coververse	1
Mode: Link:	
Voltage: V Type:	
Sunrise: Version:	
Sunset: Service:	
System settings	
Solar h/m/s: : : : Enable Angle:	°
Solar d/m/y: 1 / Automatic tracking. Disable Position:	<u> </u>
GMT h/m/s: : Destination:	i
H/V Alignment Snow I motor:	A
Lon/Lat:	
Moving interval:	
Sync time Do reference A Do reference B	
Common Motor B	
Power failed Automatic tracking must be disabled Angle:	- •
Button pressed	<u> </u>
A end switch pressed	i
B end switch pressed	_ A
B loosing hall pulses	
A&B async	
Stop motors Error:	
)ffline

- 🚊 🖤 Vrata (COM in LPT)
 - Communications Port (COM1)

 - Terial Port (COM3)
 - Terial Port (COM4)
 - Printer Port (LPT1)
 - Time STMicroelectronics Virtual COM Port (COM6)
- 🗄 💠 WD Drive Management devices

4. **Choose right COM port.** You can check which COM port in ->START -> COMPUTER -> PROPERTIES -> DEVICE MANAGER -> PORTS COM & LPT -> check for STMicroelectronics Virtual COM port (COMx) (x is a number). In our case, we choose COM6 and press connect. (the button left beside COM ports.



5. The numbers appear and link is counting; **now disable tracking** in case tracking enabled.

🐵 Sat Control d.o.o - He	lios Analytics 2.0.3	
File System Updat	e Support	
Port: COM6	•	
Positioners	Monitoring Advanced Sensors Options	
୍ତି 36A1(1)	Overview Mode: tracking ok	Link:
	Voltage: 3.78 v	Туре:
	Sunrise: 05:59:40 (Local:06:42:04)	Version:
	Sunset: 18:15:22 (Local:18:57:46)	Service:
	System settings	
	Solar h/m/s: 18 : 17 : 23	Enable
	Solar d/m/y: 21 / 03 / 2016 Automatic tracking:	Disable
	GMT h/m/c: 17 - 50 - 17	
	Do you want to stop SunTracer?	

6. Click **"Do reference A"** and confirm action to initiate a position calibrating for motor A. When motor A stops, click **"Do reference B"** and confirm action to initiate a position calibrating for motor B.

WARNING: Before proceeding to this step, make sure that all connectors are plugged in, all wires and screws are properly tied in junction box and on motor's side! If not, all further actions can lead to serious damage of tracker! The power 24VDC must be on!

🐵 Sat Control d.o.o - He	elios Analytics 2.0.3		
File System Updat	e Support		
Port: COM6	T.		
Desilieren			
Positioners	Monitoring Advanced Sensors Options		
36A1(1)	Mode: tracking disabled	Link:	
	Voltage: 3.87 V	Туре:	
	Sunrise: 05:59:40 (Local:06:42:04)	Version:	
	Sunset: 18:15:22 (Local:18:57:46)	Service:	
	System settings		
	Solar h/m/s: 20 : 30 : 06	Enable	
	Solar d/m/y: 21 / 03 / 2016 Automatic tracking:	Disable	
	GMT h/m/s: 20:12:29		
	GMT d/m/y: 21 / 03 / 2016 H/V Alignment	Snow	
	Time zone: 1.0 h Wind	Custom	
	Moving interval: 300 s		
	Sync time	Do reference B	
	- Common		
	X		
Go to nome position? This will synchronize internal councers.			
Confirm			

Click "Do reference A" and confirm action. When motor A stops, click "Do reference B". You can proceed when motor stops moving and both positions are same as parameter "min range A" and "min range B" under tab Advanced parameters. Important Note: The motor fully retracts then goes to "min range A/B". Check whether motor position is "0" (or "min range A/B" in case it is different from 0) when motor stops. In case it is not, please contact us. For additional information, refer to Helios Analytics manual.

7. Sync time, set Longitude and Latitude and time zone of yours's solar tracker position. (minus sign is WEST)

🔓 Sat Control d.o.o - He	elios Analytics 2.0.3			
File System Updat	e Support			
Port: COM6	*			
Positioners	Monitoring Advanc	ed Sensors Options		
ි <mark>වි</mark> 36A1(1)	Mode:	tracking disa	abled	Link:
	Voltage:	3.87 V		Туре:
	Sunrise:	05:59:40 (Local:0	ð6:42: 0 4)	Version:
	Sunset:	18:15:22 (Local::	18: 57: 46)	Service:
	System settings		Tracker control	
	Solar h/m/s: Solar d/m/y:	20 : 30 : 06 21 / 03 / 2016	Automatic tracking:	Enable Disable
	GMT h/m/s: GMT d/m/y:	20 : 12 : 29 21 / 03 / 2016	H/∨ Alignment	Snow
	Lon/Lat:	1.0 h 4.4000 ° 51.4000 f	Wind	Custom
	Moving interval:	300 s	Do reference A	Do reference B

8. After the calibration is finished and motors stops, **press H/V alignment to initiate horizontal alignment**. After motors stops, make mechanical calibration so, that you loosen the clamp of stator part of linear motor; adjust plate with solar panels fully horizontally with help of spirit level, then tight clamp back. Do it so by both linear motors. **WARNING**: At the time of horizontal alignment, check if parameter Min. range A is zero and parameter Min. range B is zero in Advanced tab. When are not zero, then set it to zero (both).

😑 Sat Control d.o.o - Helios Analytics 2.0.3				
File System Upda	te Support			
Port: COM6	Ŧ			
Positioners	Monitoring Advanc	ed Sensors Options		
36A1(1)	Overview Mode:	tracking disa	abled	Link:
	Voltage:	3.87 V		Туре:
	Sunrise:	Ø5:59:40 (Local:	Ø6:42:Ø4)	Version:
	Sunset:	18:15:22 (Local:	18:57:46)	Service:
	System settings		Tracker control	
	Solar h/m/s: Solar d/m/y:	20:30:06	Automatic tracking:	Enable
	GMT h/m/s:	20 : 12 : 29		Disable
	GMT d/m/y:	21 / 03 / 2016	H/V Alignment	Snow
	Time zone: Lon/Lat:	1.0 h 4.4000 ° 51.4000 °	Wind	Custom
	Moving interval:	300 s		
	Sync time		Do reference A	Do reference B

See photos of horizontal aligning.



9. Enable tracking.

😑 Sat Control d.o.	- Helios Analytics 2.0.3	
File System	Jpdate Support	
Port: CON	6 •	
Positioners	Monitoring Advanced Sensors Options	
्रि <u> </u>	Overview Mode: Tracking disabled	Link:
	Voltage: 3.83 v	Туре:
	Sunrise: 05:59:40 (Local:06:42:04)	Version:
	Sunset: 18:15:22 (Local:18:57:46)	Service:
	System settings	
	Solar h/m/s: 13 02 49 Solar d/m/y: 21 / 03 / 2016 Automatic track	king: Enable Disable
	GMT h/m/s: 12 : 45 : 13	×
	GMT d/m/y: 21 / 03 / 2016 H/V Alignme	int
	Time zone: 1.0 h Lon/Lat: 4.4000 • 51.4000 •	Do you want SunTracer to run automatically?
	Moving interval: 300 s Sync time Do reference	A Do Prekliči

Start to use the Helios analytics and discover the advantages and benefits with help of user manual for Helios analytics.

🐵 Sat Control d.o.o - He	elios Analytics 2.0.3		
File System Updat	e Support		
Port: COM6	*		
Positioners	Monitoring Advanced Sensors Options		
୍ତ୍ରି 36A1(1)	Overview	Link:	lon
		T	
	Voltage: 3.83 V	Type.	36A1
	Sunrise: 05:59:40 (Local:06:42:04)	Version:	6.63 (B1)
	Sunset: 18:15:22 (Local:18:57:46)	Service:	Run:normal,Wi=0,Si=0
	System settings		Motor A
	Solar h/m/s: 13 : 06 : 02 En	able	Angle: -46.2 °
	Solar d/m/y: 21 / 03 / 2016 Automatic tracking: Dis	able	Position: 18734 i
	GMT h/m/s: 12:48:26		Destination: 18734 i
	GMT d/m/y: 21 / 03 / 2016 H/V Alignment Sr	now	I motor: 0.00 A
	Time zone: 1.0 h		
	Lon/Lat: 4.4000 ° 51.4000 ° Wind Cu	stom	Status:
	Moving interval: 300 s		
	Sync time Do reference A Do refe	rence B	ОК
	Common		Motor B
	Power failed Automatic tracking must be disat	oled!	Angle: 86.4
	Button pressed		Position: 17605 i
	Button stuck		Postination: 17605
	B end switch pressed		
	Aloosing hall pulses		I motor: Jo.oo A
	E Bloosing hall pulses		Status:
	A&B async	motors	Idle
	Snow input/ Reference input(6)	ear	Error:
		cai	
			Opline COME -> mode: USP/covial
			Online Como -> mode: Obb/serial