Procedure to install Electron to Window

Remark : Electron works only on the Windows OS upper that W7.

- Connect the sun photometer thru PC with a DCP cable (RJ11 to USB serial converter or directly on COM Port)
- Download the zip file from <u>https://www-loa.univ-</u> <u>lille1.fr/documents/PHOTONS/Support_photons/INSTALLATION/electron-insall-</u> 2017.zip
- Move 'photo-dt' folder to the hard disk (C:) for Window OS
- In \photo-dt\Winscp-ph\ double click on 'electron-test-ftp.bat'
- On the same folder, check the second last line of the text file named 'log-test-ftp.txt'. If the connection is well etablished between your PC and our server, you will see appear "Directory listing successful"

ſ	log-	test-ftp.tx	t - Bloc-n	otes				_		×
Fi	chier	Edition	Format	Affichage	Aide					
>	2015	-02-23	13:37	:01.142	PASV					^
<	2015	-02-23	13:37:	:01.189	227 Entering Pas	ssive Mo	de (134,206,2	25,51,	192,67)
>	2015	-02-23	13:37	:01.189	LIST -a					
<	2015	-02-23	13:37	:01.267	150 Accepted dat	ta conne	ction			
<	2015	-02-23	13:37	:01.267	226-Options: -a	-1				
<	2015	-02-23	13:37	:01.267	226 22 matches t	total				
	2015	-02-23	13:37	:01.516	Directory listin	ng succe	ssful			
·	2015	-02-23	13:37	:01.532	Disconnected fro	om serve	en			
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• In \photo-dt\ double click on 'electron-site.ini' and change the name site by the right one

electron	-site.ini	i - Bloc-r	notes		_	×
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[COM-GPS] COM=COM1]					^
[NAME SI Henties_	TE] Bay					
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- If you have a GPS connected to the PC you have the choice or not to update the time of your PC thanks to that .ini file. If not put a COM Port not used. The program will return an error when it will turn On only during several seconds and it will continue the process without update the time.
- In *photo-dt*\ double click on 'Tasks-PH-WIN7-10.bat' to create the task on the window task scheduler. It will check the folder wich contain the data and send it each 30min everyday indefinitely.
- If the .bat file didn't work due to bad access, you will need to do the task manually. Go to the *Task Scheduler* of Windows and create a *Basic task*, followings these parameters : name : FTP_PHOTOMETER_TO_PHOTONS -> every days -> Start at 00:00:00 -> Start a program -> C:\photo-dt\Winscp-ph\electron.bat -> tick 'open

properties of that task ...' -> Trigger tab -> modificate -> Advanced parameter -> Repeat Task every 30min -> indefinitely -> Ok -> Ok.

Now, install the ASTPWin (white box) or PhotoGetData (orange box) soft depending of your sun photometer version. The both software need to be installed on C:\Program Files (x86)\ path ! To download ASTPWin : <u>https://www.cimel.fr/wp-content/uploads/2019/07/astpwin_us.zip</u> and to download PhotoGetData : <u>https://travel.cimel.fr/public/setupphotogetdata</u>

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• On ASTPWin : Go to Configuration and on Communication tab, tick 'Automatic connection at start', 'Stop the connection after two empty events', 'Optimize transmissions' and 'Enable direct update time'. Choose the rigth COM Port and let 1200bps.

ASTP Options							×
Communication	ASCII format	Misc.	Data				
_Link							
Communication	n type	Serial c	able	\sim			
🗹 Automatic d	connection at s	start					
Communication	port		_				
Port number	CO	IM5	\sim				
Speed (in ba	auds) 12	00	\sim				
Misc.							
Stop the co	nnection after	two emp	oty events	;			
🗹 Optimize tra	ansmissions						
Enable sma	art update of tin	ne					
🗹 Enable dire	ct update of tir	ne					
						_	
		0	K		Cancel		2 Help

• On **Misc.** tab in 'Directories' section, the 'Plugins' and 'Configuration' path need to be setted at *C:\Program Files* (*x86*)*ASTPWin\Plugins ...or.*. *Par*\

ASTP Options			×
Communication	ASCII format Misc. Data		
Data list display	uty scenarios (.INI) narios with errors		
Files options	ore overwriting files nissions report		
Directories Plug-ins	C:\Program Files (x86)\ASTPWin	\PlugIns\ Browse	
Configuration	C:\Program Files (x86)\ASTPWin	h\Par\ Browse	
Sounds	d at the end of the transfer	Choose]
	OK	Cancel ? Help	,

• on **Data** tab, tick 'Activate automatic K7 recording', complete the directory path with *C:\photo-dt\base\aenvoyer* and put 'Pxxx_' in the *Base name* and click on 'Ok' button.

Communication ASC	Il format Misc. Data	
-Automatic data stora	ge	
🗹 Activate automa	tic K7 recording	
In directory	C:\photo-dt\base\aenvoyer Browse	
ASCII files creati	on	_
Files period		
None	O Monthly	
 Hourly 	○ Yearly	
🔿 Daily	◯ Infinite	
Page name	Puuu I	1
Dase name		1
		_

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- On the main window, click on Connect . Now ASTPWin is configured.



• On PhotoGetData : Go to ' . On **Data** tab, tick 'Enable', 'Create K8', Start time at '09:00:00' and Period at '2 hrs'.

Configuration	ı	×
General Da	ta Communication	
Files director	ry: L:\Users\Gael Dubois\Documents\PhotoGetDat Browse	
-Automatic re	etrieval	
🗹 Enable	Create K8	
Start time:	09:00:00	
Period:	2 Hours 🗸	
Files period		
None	O Monthly O Retrieval date	
ODaily	○ Annual	
Base name		
Prefix:	P%HEAD%_ %VERS%: Photometer version %HEAD%: head number	
Example:	P0000k8	
	OK	

• On **Communication** tab, select the right communication USB, Serial or Modem and tick 'Get missing data', 'Enable log', 'Enable auto set time at 10sec' and 'Ok'.

General Data Communicatio	n		
Link			
Type: USB 🗸]		
Miscellaneous			
Miscellaneous Get missing data		View unknown	records
Miscellaneous Get missing data Limit retrieving days 1		View unknown	records
Miscellaneous Get missing data Limit retrieving days Fnable log		View unknown	records
Miscellaneous Get missing data Limit retrieving days Enable log Enable auto set time		Uiew unknown	records
Miscellaneous Get missing data Limit retrieving days Enable log Enable auto set time Difference max (sec): 1		Uiew unknown	records

• Now PhotoGetData is configured.