# 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 https://www-loa.univ-lille1.fr/documents/PHOTONS/Support_photons/INSTALLATION/electron-insall-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"
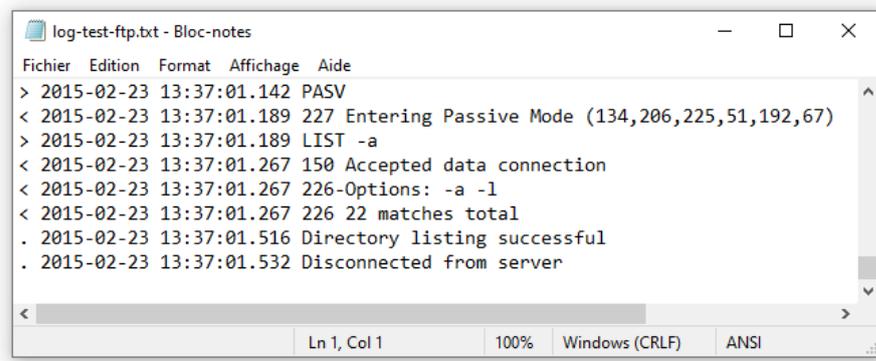
```
log-test-ftp.txt - Bloc-notes                                    —   □   ×
Fichier  Edition  Format  Affichage  Aide
> 2015-02-23 13:37:01.142 PASV
< 2015-02-23 13:37:01.189 227 Entering Passive Mode (134,206,225,51,192,67)
> 2015-02-23 13:37:01.189 LIST -a
< 2015-02-23 13:37:01.267 150 Accepted data connection
< 2015-02-23 13:37:01.267 226-Options: -a -l
< 2015-02-23 13:37:01.267 226 22 matches total
. 2015-02-23 13:37:01.516 Directory listing successful
. 2015-02-23 13:37:01.532 Disconnected from server

                              Ln 1, Col 1      100%   Windows (CRLF)   ANSI
```

- In *\photo-dt\* double click on 'electron-site.ini' and change the name site by the right one
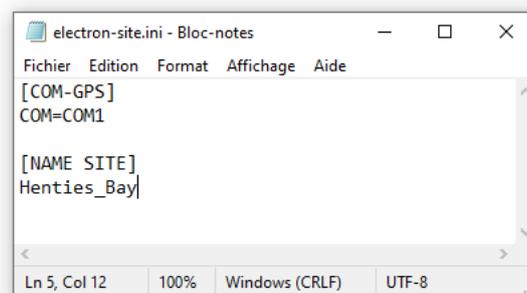
```
electron-site.ini - Bloc-notes                       —   □   ×
Fichier  Edition  Format  Affichage  Aide
[COM-GPS]
COM=COM1

[NAME SITE]
Henties_Bay

    Ln 5, Col 12   100%   Windows (CRLF)   UTF-8
```

- 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 : https://www.cimel.fr/wp-content/uploads/2019/07/astpwin_us.zip and to download PhotoGetData : https://travel.cimel.fr/public/setupphotogetdata

- 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.
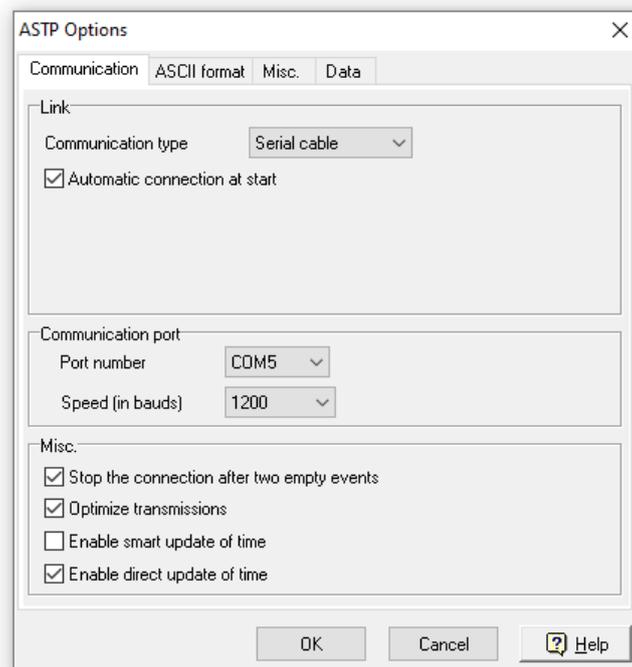


- On **Misc.** tab in 'Directories' section, the 'Plugins' and 'Configuration' path need to be setted at *C:\Program Files (x86)\ASTPWin\Plugins ..or.. Par\*
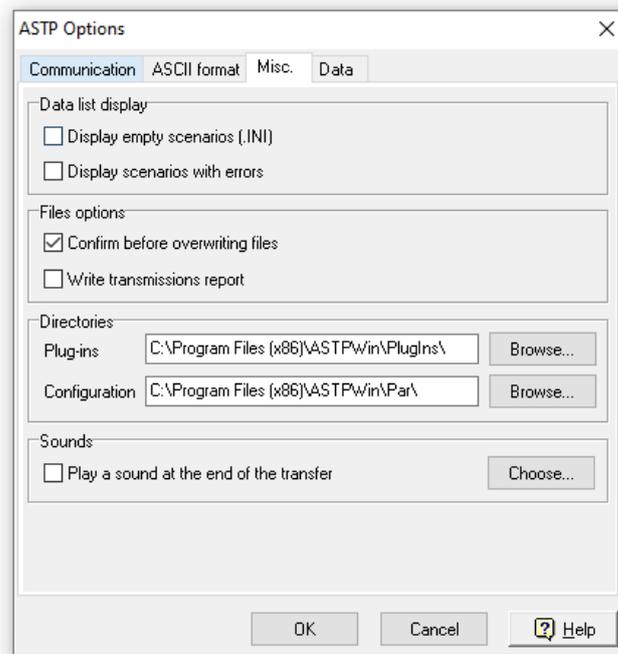
- on **Data** tab, tick 'Activate automatic K7 recording', complete the directory path with *C:\photo-dt\base\aenvoyer* and put 'Pxxx_' in the *Base name* and click on 'Ok' button.
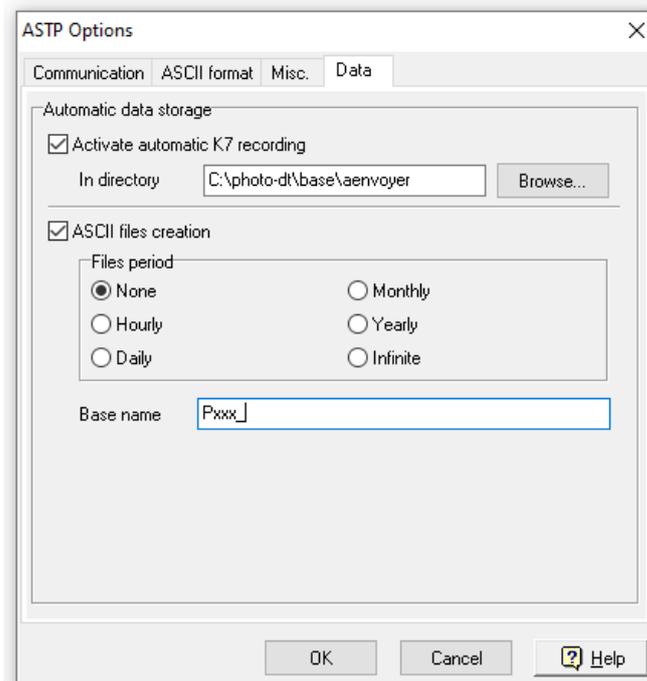


- On the main window, click on  . Now ASTPWin is configured.
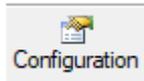
- On PhotoGetData : Go to  . On **Data** tab, tick 'Enable', 'Create K8', Start time at '09:00:00' and Period at '2 hrs'.
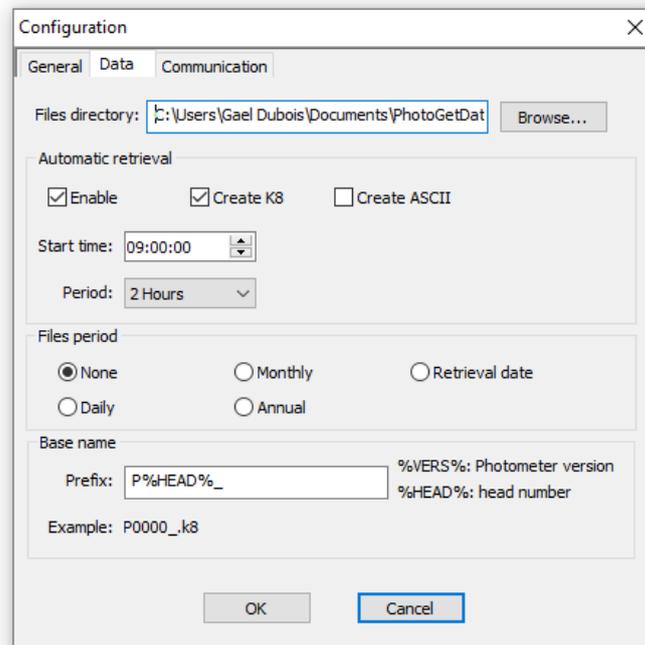


- On **Communication** tab, select the right communication USB, Serial or Modem and tick 'Get missing data', 'Enable log', 'Enable auto set time at 10sec' and 'Ok'.
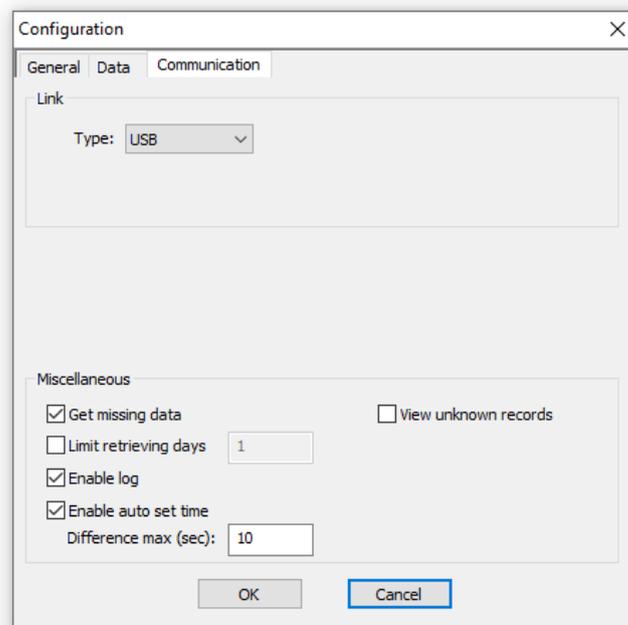


- Now PhotoGetData is configured.