# ASTPWin

# Data acquisition and treatments for **CIMEL** instruments

Version 1.1

Author : Printing date : **Revision** : Document reference: ASTPW/9903

Jean-Baptiste DEFOSSEZ Monday 17 May 1999 REV0



5-7 Cité de Phalsbourg

**75011 PARIS** 

### FRANCE

Tel : (+33) 1 43 48 79 33

Fax : (+33) 1 43 48 62 61

Email : cimel@cimel.fr

Internet : <u>www.cimel.fr</u>

# **Table of contents**

GENERAL	4
Minimal required configuration	4
Presentation	5
DATA ACQUISITION	6
Hardware configuration	6
Link kind choice	
Communication port choice	
A carriettion lorench	
Connecting to the communication port	
Acquisition launch	
Acquisition end	
Advanced options	9
Automatic data storage	9
Automatic connection at the start	
Stop the transmission after two empty events	
Transmission statistics	
Writing transmissions report.	
I ransmissions history visualization	
DATA VISUALIZATION	
Scenarios list	
Events sorting	
Scenarios suppression	
Measurement details	
Advanced options	
Display empty scenarios (.INI)	
Display scenarios with errors.	
Data processing and Plug-ins	
How the Plug-Ins work	
Plug-Ins directory	
K7 FILES MANAGEMENT	
Generalities	
What's a .K7 file ?	
Importance of K7 files in relation to ASCII files	
ASTP for DOS compatibility	
Opening and saving files	
Several K7 file merging	
ASCII EXPORTATION	
ASCII exportation SETUP	
Current file exportation	
Several K7 files conversion in ASCII	
	24
rarameters edition	

# General

# Minimal required configuration

#### **Operating** system

- Windows 95 or higher
- Windows NT 4 Service Pack 3 or higher

#### <u>Processor</u>

All; A more powerful processor will speed up loading and merging operations of large files.

#### <u>Memory</u>

16 Mb ; Performances are better with more memory.

Graphical resolution

640\*480 16 colors.

Communication port

1 free COM port.

#### Version problem with Comctl32.dll file

This problem concern the first version of Windows 95, it doesn't occur on Windows version superior or equal to OSR B version of Windows 95 (Windows 98 and Windows NT aren't affected).

To launch ASTPWin, you must have on your system the 4.70 version for the Windows DLL COMCTL32.DLL. Actually with the first version of Windows 95, released in October 95, there's a bug which can hang up the computer.

To install the correct version of this file, you must download the Comctl32.exe file , available for free on the Microsoft web site and decompress it.

Then, restart the computer in DOS mode and replace the file with the same name (COMCTL32.DLL) which is on the system directory of Windows (C:\WINDOWS\SYSTEM in most cases).

Note that ASTPWin won't run if the version of this file isn't correct.

# Presentation

ASTPWin allows data acquisition on CIMEL Electronique instruments.

The main ASTPWin window is composed of several parts :

1			2	3
AST	P Win			×
ichier	Outils Messa Irait	tements		
Dialogur	e communication			Status de la incression
06/03/9	99 C 24:02 : Mesure S	LIN		Statistiques
06/03/9	99 07:23:36 : Mesure S	ŪN		Réception
6/03/9	99 07:23:09 : Mesure S	UN		29% 79 car/s
NG/03/9	99 U7:22:53 : Status			Caractères recus : 16720
Evenem	nent vide (0xFF). nent vide (0xFF).			Calabieles leçus : 10/20
E fonom	ioni io joni i j.		<b>T</b>	Temps: 00:03:37
Nom :	C:\Progs\AstpWin\K7	7_Files_P	ar_Files\CalibrPhotomètre.K7	05/03/9913.24.49 Mesure SUN 🗐
Nom : Taille : Type	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure	7_Files_P nnées : 2 Taille	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données	06/03/99132449 Means X
Nom : Taille : Type SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40	7_Files_P nnées : 2 Taille 30	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données 06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28.7	06/03/99132449 Mean X Date 06/03/1999 Heure 13:24:49 Données SUN 56
Nom : Taille : Type SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:29	7_Files_P nnées: 2 Taille 30 30	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données 06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7 06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7	05/03/99132449 Means ▼ Date 06/03/1999 Contract 13:24:49 Données SUN 56 Données SUN 56
Nom : Taille : Type SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:33:19	7_Files_P nnées: 2 Taille 30 30 30 19	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données 06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7 06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7 06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7 06/03/1999,13:33:17,17,21,26,127,25,23,9,0	06/03/99132449 Means ▼ Date 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 66 Données SUN 29
Nom : Taille : Type SUN SUN SUN SUN STA SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:29 06/03/99 13:33:19 06/03/99 13:33:17 06/03/99 13:25:00	7_Files_P nnées: 2 	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données 06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7 06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7 06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7 06/03/1999,13:33:17,7,67,30,1,0,71,2,3,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,2,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,2,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,2,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,2,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,2,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,1,0,70,22,28,7 06/03/1999,13:25:00,56,55,29,10,70,22,28,7 06/03/1990,13:25:00,56,55,29,10,70,22,28,7 06/03/1990,13:25:00,56,55,29,10,70,22,28,7 06/03/1990,13:25:00,56,55,29,10,70,22,28,7 06/03/1990,13:25:00,56,55,29,10,70,22,28,7 06/03/1990,13:25:00,56,55,29,10,70,22,28,7 06/03/1990,10,50,50,50,50,50,50,50,50,50,50,50,50,50	06/03/99132449 Means ▼ Date 06/03/1999 → Heure 13:24:49 → Données SUN 56 → Données SUN 66 → Données SUN 29 → Données SUN 1
Nom : Taille : Type SUN SUN SUN STA SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:33:17 06/03/99 13:25:00 06/03/99 13:24:49	7_Files_P nnées: 2 30 30 30 18 30 30 30	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données 06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7 06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7 06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7 06/03/1999,13:23:00,56,65,29,1,0,70,2,2,28,7 06/03/1999,13:24:49,56,66,29,1,0,70,2,2,28,7 06/03/1999,13:24:49,56,66,29,1,0,70,2,3,28,7	06/03/93 13:24:49 Mesore SU Date 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 56 Données SUN 29 Données SUN 1 Données SUN 1 Données SUN 1
Nom : Taille : SUN SUN SUN SUN STA SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:25:00 06/03/99 13:24:49	7_Files_P nnées: 2 30 30 30 30 18 30 30 30 30	ar_Files\CalibrPhotomètre.K7 44 scénarios Instrument : Photomètre non polarisé Données 06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7 06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7 06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7 06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7 06/03/1999,13:24:49,56,66,29,1,0,70,2,3,28,7 06/03/1999,13:24:49,56,66,29,1,0,70,2,3,28,7 06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7	06/03/93 13:24:49 Mesure SUN ➤ P Date 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 66 Données SUN 29 Données SUN 1 Données SUN 1 Données SUN 1 Données SUN 20
Nom : Taille : SUN SUN SUN SUN STA SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:29 06/03/99 13:33:19 06/03/99 13:23:17 06/03/99 13:24:500 06/03/99 13:24:43 06/03/99 13:24:37	7_Files_P nnées : 2 30 30 30 30 30 18 30 30 30 30	Iar_Files\CalibrPhotomètre.K7           244 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:24:49,56,66,29,1,0,70,2,3,28,7         06/03/1999,13:24:39,56,66,29,1,0,70,2,3,28,7           06/03/1999,13:24:39,56,66,50,10,71,2,3,28,7         06/03/1999,13:24:37,7,2,175,137,35,23,0,0	06/03/99 13:24:49 Mesure SUIL ▼
Nom : Taille : SUN SUN SUN STA SUN SUN SUN STA SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:29 06/03/99 13:33:19 06/03/99 13:23:17 06/03/99 13:25:00 06/03/99 13:24:39 06/03/99 13:24:39 06/03/99 13:24:37 06/03/99 13:24:37	7_Files_P nnées: 2 30 30 30 30 18 30 30 30 30 30 30	Image: State	06/03/93 13:24:49 Mesone SUI ▼ P Date 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 66 Données SUN 29 Données SUN 1 Données SUN 1 Données SUN 1 Données SUN 70 Données SUN 2
Nom : Taille : SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:24:39 06/03/99 13:24:39 06/03/99 13:24:37 06/03/99 13:24:37 06/03/99 13:24:37	7_Files_P nnées: 2 30 30 30 18 30 30 30 30 30 30 30 30 30 30 30	Iar_Files\CalibrPhotomètre.K7           244 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:24:49,56,66,29,1,0,70,2,3,28,7         06/03/1999,13:24:49,56,66,29,1,0,70,2,3,28,7           06/03/1999,13:24:37,7,2,175,137,35,23,0,0         06/03/1999,13:16:10,56,65,29,1,0,70,3,3,28,7           06/03/1999,13:15:59,55,65,29,1,0,70,3,28,7         06/03/1999,13:15:59,55,65,29,1,0,70,3,28,7           06/03/1999,13:15:59,55,65,29,1,0,70,3,28,7         06/03/1999,13:16:10,56,65,29,1,0,70,3,28,7           06/03/1999,13:15:59,55,65,29,1,0,70,2,2,28,7         06/03/1999,13:16:10,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:16:10,56,65,29,1,0,70,2,2,28,7         06/03/1999,13:16:10,56,55,29,1,0,70,2,2,28,7	06/03/93 13:24.49 Means SU ▼ Pate 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 66 Données SUN 29 Données SUN 1 Données SUN 1 Données SUN 70 Données SUN 2 Données SUN 2 Données SUN 2 Données SUN 3
Nom : Taille : SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:25:00 06/03/99 13:24:39 06/03/99 13:24:39 06/03/99 13:24:37 06/03/99 13:16:16 06/03/99 13:16:15 06/03/99 13:15:49 06/03/99 13:15:49	7_Files_P nnées : 2 30 30 30 18 30 30 30 30 30 30 30 30 30 30 30	ar_Files\CalibrPhotomètre.K7           244 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,65,30,1,0,71,2,3,28,7         06/03/1999,13:32:17,7,2,176,137,35,23,0,0           06/03/1999,13:24:49,56,66,29,1,0,70,2,2,28,7         06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7           06/03/1999,13:24:37,1,2,175,137,35,23,0,0         06/03/1999,13:16:10,56,65,29,1,0,70,3,3,28,7           06/03/1999,13:16:10,56,65,29,1,0,70,2,2,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,2,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7	06/03/93 13:24.49         Means         ▼
Nom : Taille : Type SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:25:00 06/03/99 13:24:39 06/03/99 13:24:39 06/03/99 13:15:15 06/03/99 13:15:15 06/03/99 13:15:49 06/03/99 13:15:48 06/03/99 13:15:48	7_Files_P nnées : 2 30 30 30 18 30 30 30 30 30 30 30 30 30 30 30 30 30	ar_Files\CalibrPhotomètre.K7           244 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,10,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:24:49,56,66,29,1,0,70,2,2,28,7         06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7           06/03/1999,13:24:37,1,2,175,137,35,23,0,0         06/03/1999,13:16:10,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:59,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:48,7,2,175,137,35,23,0,0           06/03/1999,13:15:48,7,2,175,137,35,23,0,0         06/03/1999,13:15:48,7,2,175,137,35,23,0,0           06/03/1999,13:15:48,7,2,175,137,35,23,0,0         06/03/1999,13:15:48,7,2,175,137,35,23,0,0           06/03/1999,13:15:48,7,2,175,137,35,23,0,0         06/03/1999,13:15:48,7,2,175,137,35,23,0,0	06/03/99 13:24.49 Mecres SUN → Date 06/03/1999 → Heure 13:24:49 → Données SUN 56 → Données SUN 29 → Données SUN 1 → Données SUN 1 → Données SUN 70 → Données SUN 2 → Données SUN 2 → Données SUN 3 ↓ Température 28.7
Nom : Taille : SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor 06/03/99 13:33:40 06/03/99 13:33:29 06/03/99 13:33:19 06/03/99 13:33:17 06/03/99 13:25:00 06/03/99 13:24:37 06/03/99 13:24:37 06/03/99 13:15:59 06/03/99 13:15:59 06/03/99 13:15:48 06/03/99 13:15:48 06/03/99 13:08:20	7_Files_P nnées : 2 30 30 30 18 30 30 30 30 30 30 30 30 30 30 30 30 30	Iar_Files\CalibrPhotomètre.K7           244 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,10,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7         06/03/1999,13:24:37,15,2175,137,35,23,0,0           06/03/1999,13:16:10,56,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:59,55,65,29,1,0,70,2,2,28,7           06/03/1999,13:15:48,7,2,775,137,35,23,0,0         06/03/1999,13:15:48,7,2,175,137,35,23,0,0           06/03/1999,13:15:48,7,2,175,137,35,23,0,0         06/03/1999,13:15:48,7,2,175,137,35,23,0,0           06/03/1999,13:15:48,7,2,175,137,35,23,0,0         06/03/1999,13:16:40,7,2,2,28,7           06/03/1999,13:15:48,7,2,175,137,32,23,0,0         06/03/1999,13:16:40,7,2,2,28,7           06/03/1999,13:15:48,7,2,175,137,35,23,0,0         06/03/1999,13:08:09,56,66,29,1,0,70,2,3,28,7	06/03/9913:24.49       Mecore SUI
Nom : Taille : Type SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor 06/03/99 13:33:40 06/03/99 13:33:29 06/03/99 13:33:19 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:24:49 06/03/99 13:24:37 06/03/99 13:24:37 06/03/99 13:15:15 06/03/99 13:15:15 06/03/99 13:15:49 06/03/99 13:15:48 06/03/99 13:16:49 06/03/99 13:08:20 06/03/99 13:08:20 06/03/99 13:08:20	7_Files_P nnées : 2 30 30 30 18 30 30 30 30 30 30 30 30 30 30 30 30 30	Iar_Files\CalibrPhotomètre.K7           244 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7         06/03/1999,13:24:39,56,56,29,1,0,70,2,3,28,7           06/03/1999,13:15:19,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:08:09,56,66,30,1,0,71,2,2,28,7           06/03/1999,13:08:09,56,66,30,1,0,71,2,2,28,7         06/03/1999,13:08:09,56,66,30,1,0,71,2,2,28,7	06/03/9313:24.49 Merve SU ▼ Pate 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 29 Données SUN 1 Données SUN 70 Données SUN 2 Données SUN 2 Données SUN 3 Température 28.7
Nom : Taille : Type SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor 06/03/99 13:33:40 06/03/99 13:33:29 06/03/99 13:33:19 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:24:39 06/03/99 13:24:39 06/03/99 13:24:37 06/03/99 13:15:19 06/03/99 13:15:19 06/03/99 13:15:49 06/03/99 13:15:48 06/03/99 13:08:20 06/03/99 13:08:20 06/03/99 13:07:57	7_Files_P nnées : 2 30 30 18 30 30 30 30 30 30 30 30 30 30 30 30 30	Iar_Files\CalibrPhotomètre.K7           V44 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:32:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7         06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7           06/03/1999,13:24:37,12,175,137,35,23,0,0         06/03/1999,13:15:59,55,52,91,0,70,2,3,28,7           06/03/1999,13:15:59,55,52,91,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:15:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:16:59,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:16:40,56,66,29,1,0,70,2,3,28,7           06/03/1999,13:16:59,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:16:40,56,66,29,1,0,70,2,3,28,7           06/03/1999,13:16:40,56,66,20,1,0,71,2,2,8,7         06/03/1999,13:08:20,56,66,20,1,0,71,2,2,28,7           06/03/1999,13:08:20,56,66,20,1,0,71,3,2,28,7         06/03/1999,13:07:57,75,75,75,23,0,0	06/03/9913:2449 Means
Nom : Type SUN SUN SUN SUN SUN SUN SUN SUN SUN SUN	C:\Progs\AstpWin\K7 32768 octets Dor Date / Heure 06/03/99 13:33:40 06/03/99 13:33:19 06/03/99 13:33:19 06/03/99 13:25:00 06/03/99 13:25:00 06/03/99 13:24:43 06/03/99 13:24:43 06/03/99 13:24:37 06/03/99 13:15:16 06/03/99 13:15:49 06/03/99 13:15:49 06/03/99 13:08:20 06/03/99 13:08:20 06/03/99 13:08:20 06/03/99 13:08:20 06/03/99 13:07:57 06/03/99 12:55:00	7_Files_P nnées: 2 30 30 30 18 30 30 30 30 30 30 30 30 30 30 30 30 30	Iar_Files\CalibrPhotomètre.K7           44 scénarios         Instrument : Photomètre non polarisé           Données         06/03/1999,13:33:40,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28,7         06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7           06/03/1999,13:33:19,57,67,30,1,0,71,2,3,28,7         06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7           06/03/1999,13:25:00,56,65,29,1,0,70,2,2,28,7         06/03/1999,13:24:39,56,66,30,1,0,71,2,3,28,7           06/03/1999,13:16:10,56,65,29,1,0,70,2,3,28,7         06/03/1999,13:16:10,56,65,29,1,0,70,2,3,28,7           06/03/1999,13:16:10,56,65,29,1,0,70,2,3,28,7         06/03/1999,13:16:30,56,56,29,1,0,70,2,3,28,7           06/03/1999,13:16:49,55,65,29,1,0,70,2,3,28,7         06/03/1999,13:16:49,55,65,29,1,0,70,2,3,28,7           06/03/1999,13:16:30,56,66,30,1,0,71,2,2,28,7         06/03/1999,13:08:20,56,66,20,1,0,70,2,3,28,7           06/03/1999,13:08:20,56,66,20,1,0,70,2,3,28,7         06/03/1999,13:08:20,56,66,30,1,0,71,3,2,28,7           06/03/1999,13:08:20,56,66,30,1,0,71,3,2,28,7         06/03/1999,13:08:20,56,66,30,1,0,71,3,2,28,7           06/03/1999,13:07:57,7,2,175,137,35,23,0,0         06/03/1999,13:07:57,7,2,175,137,35,23,0,0           06/03/1999,13:07:57,7,2,175,137,35,23,0,0         06/03/1999,13:07:57,7,2,175,137,35,23,0,0           06/03/1999,13:07:57,7,2,175,137,35,23,0,0         06/03/1999,13:07:57,7,2,175,137,35,23,0,0           06/03/1999,13:07:57,7,2,175,137,35,23,0,0	06/03/93 13:24.49 Mesure SUN ➤ Pate 06/03/1999 Heure 13:24:49 Données SUN 56 Données SUN 29 Données SUN 1 Données SUN 1 Données SUN 2 Données SUN 2 Données SUN 2 Données SUN 2 Données SUN 3 Température 28.7

It's possible to access all the ASTPWin functions with the main menu (1).

The part (2) contains the icon shortcuts. Each icon accelerate the access to one particular function. To know the signification of each image, let the mouse cursor a few seconds over it.

The part (3) allows to see the acquisition progression. This part is only visible if the communication port has been opened.

The list of events (or scenarios) currently edited is indexed in the list view (4). The selected scenario detail is in text chart (5). This chart is only visible if the measurement details visualization is activated.

# **Data acquisition**

### Hardware configuration

ASTPWin need to know the link type between the PC and the instrument, the communication port (from COM1 to COM4) and the transmission speed (1200 or 9600 bauds). To specify you configuration, select the menu «Tools->General Setup» in the principal menu and click on the «Communication» sheet.

#### Link kind choice

For a local link with a serial port, choose Serial link, for a MODEM link, choose MODEM. By selecting MODEM, you will have to setup the MODEM initialization string, and the number of ring before the MODEM pick up to answer the call.

#### Communication port choice



You must indicate the communication port number used for the acquisition (from COM1 to COM4).

#### Transmission speed

The speed (in bauds) is the speed used for the transmission. That option is generally 1200 Bauds. At this time, only few instruments can handle 9600 Bauds speed rate. Standard instruments are running at 1200 bauds.

# Acquisition launch

#### Connecting to the communication port

To activate the link with the serial port, select the item «Tools->Connect / Disconnect » in the main menu or click on the following shortcut icon :



Link connection ON / OFF

The acquisition progression visualization should appear :

0

The software is now waiting for an instrument transmission.

If the dialog don't appear, the communication port can't be opened :

- Verify the communication port number.
- Verify if the communication port isn't already used by Windows or by another • application.
- Some portable computer doesn't have COM1 communication port. Choose another communication port.

#### Acquisition launch

The acquisition start when the instrument begin to send data :

- Connect the instrument to the chosen communication port
- Select the PC scenario on the instrument (see the instrument documentation for much details, by default : MAN / SEL / PC / GO ).

The data transmission LED (4) becomes green as soon as data from the instrument come :



This panel gives some information about the status of the current acquisition. The transmitted memory (1) is the percentage of memory uploaded in the PC. The number of characters received (2), the amount of time from the transmission starts (3) and the average acquisition speed in characters per second (5) are given for information. The graphic (6) shows the last 30 seconds of transmission, it allows to report the stability and the cuttings during the data transmission.

#### Acquisition end

The acquisition stops automatically, but can be terminated by a user intervention :



Stop transmission

The data transfer end if one of these conditions is done :

- The instrument memory is fully transmitted (Detection : the last received scenario was already received at the start of the transmission)
- Two consecutive empty events were received and the related stop option was activated.
- The connection between the PC and the instrument was broken (no data received during several seconds)
- The connection between the PC and the instrument is too bad (less than two characters per seconds transmitted during the 30 last seconds)
- The transfer was interrupted by the user

Then, the scenarios list is refreshed.

# Advanced options

#### Automatic data storage

It's possible to create automatically after every transfer

- The .K7 file of the acquisition
- ASCII files organized by period

To parameter the automatic data storage, choose in the menu «Tools->General setup » the tab «Data ».

Configuration ASTP	
Communication Format ASCII Divers Données Stockage automatique des données Activer l'enregistrement automatique	-2
Dans répertoire C:\Data\Paris\ Création des fichiers ASCII Période pour chaque fichier ○ Aucune ⓒ Mensuelle ○ Horaire ⓒ Annuelle	-4
O Journalière     O Infinie       Nom de base     PARIS_       Optimisation des transmissions	-5
OK X Annuler ? ∆ide	

By activating the automatic recording (1), K7 files will be saved automatically in the K7 directory (2).

The K7 file name is automatically created with the PC date at the time of the end of the transmission. The file name is MMDDhhmm.K7 (MM = Acquisition month, DD = Acquisition day, hh = Acquisition hour and mm = Acquisition minute). To activate this option permit to configure the ASCII files creation.

The option « Create ASCII files » validate the text files creation (3).

The data in text files can be organized in several ways (4):

- No period (None)
- The files are created with the same K7 file name (MMDDhhmm.EXT).
- Hourly period

The data are gathered hour by hour. The files are named hhDDMMYYYY.EXT.

- Daily period The data are gathered day by day. The files are named DDMMYYYY.EXT.
- Monthly period The data are gathered month by month. The files are named MMYYYY.EXT.
  Yearly period
  - The data are gathered year by year. The files are named YYYY.EXT.
- Infinite period The data are gathered in the same file. The file name is equal to the base name.

*Attention:* Larger is the period, longer takes the treatment time for adding data.

The base name (5) is the optional prefix that is added before the text file name. For example if the base name is "PARIS\_" and the period is monthly, the file name for June 98 will be PARIS\_0698.EXT (EXT us the ASCII file extension).

The option « Optimize transmissions » (6) allows to stops the transmission when the software detects a scenario already transmitted in previous communications.

#### Automatic connection at the start

It's possible to connect (to open) automatically to the communication port at every launch of ASTPWin. That option is convenient when occurs a power failure and you want launch automatically ASTPWin is reception mode at the computer start.

To activate that option, choose the menu «Tools->General setup» tab «communication» and check «Automatic connection at the start».

#### Stop the transmission after two empty events

Activate this option in order to optimize the transmission. The PC stops the acquisition when it detects two consecutive empty events (0xFF type). In fact, when two empty events are produced, the rest of the instrument memory should not contain data anymore.

To activate that option, choose the menu «Tools->General setup», «communication» tab and check «Stop the connection after two empty events».

# **Transmission statistics**

ASTPWin can display statistics about the transmission done during the current session. These statistics are useful for example, if the user isn't physically present during automated transmission.

#### Writing transmissions report

That option create a little log file about the communications. Each transmission add one line to this file. The file name is «Transmission.Log», it's stored in the root directory of ASTPWin. This file is never deleted, the data are always appended to it. That's why the user should erase periodically this file if that option is activated.

To activate that option, choose the menu «Tools->General setup», «Misc.» tab and check «Write transmissions report».

#### Transmissions history visualization

To see the history, choose the menu «Tools->Transmission history». That screen shows the list of transmissions done during the current session.



The number of transmission (1) is the amount of communication done from the start of ASTPWin.

Columns description (2) :

- Date / Time Date and time when the transmission started.
- Duration
- Duration of each transmission.
  - Errors Number of errors during each transmission. It's an indication of the transmission quality.
- End Trans.
   Show how the transmission ended :

OK : It normally ends.

Canceled : The transmission was canceled by the user.

Timeout : There was no data during about 10 seconds. The software has ended the connection.

Bad trans : The connection was so bad that the program terminate the transmission.

• Scenarios

Amount of scenarios (events) transmitted.

• Bytes

Amount of bytes transmitted during the communication.

• Speed

Compute a transmission speed (in characters / sec.).

The « Save » button (3) saves the list in a simple ASCII file.

# Data visualization

### Scenarios list

The scenarios list shows the content of the currently edited K7 file :



It's an information panel including some general information : The complete file name (1), it's size (2) and the number of scenarios (3) contained and the CIMEL instrument name (4). After that comes the scenarios detail. That list (5) is composed of several columns :

- Type Scenario type (short name or extension)
- Date / Time Time when the scenario starts
- Size Size of the event in bytes
- Data Show the digital counts

Note that when a transmission occurs, you're not allowed to use that list.

#### Events sorting

You can sort that list by your criterion by clicking on the title of the column.

A first click sort the scenarios in increasing order:



Туре	Date / Heure	Taille	Données
ALM	16/09/98 08:54:15	146	16/09/1998,08:54:15,9
ALM	16/09/98 08:53:07	146	16/09/1998,08:53:07,5
ALM	16/09/98 08:52:02	146	16/09/1998,08:52:02,2
ALM	16/09/98 08:50:55	146	16/09/1998,08:50:55,1
ALM	16/09/98 08:14:11	146	16/09/1998,08:14:11,9
ALM	16/09/98 08:13:06	146	16/09/1998,08:13:06,5
ALM	16/09/98 08:11:59	146	16/09/1998,08:11:59,2
АГМ	16/09/98 08:10:5/	1/6	16/09/1998 08:10:57 1

A second click sort the scenarios in decreasing order :

	Туре	Date / Heure	Taille	Données
	STA	16/09/98 08:50:18	18	16/09/1998,08:50:18,9
	STA	16/09/98 08:10:17	18	16/09/1998,08:10:17,9
	STA	16/09/98 07:20:18	18	16/09/1998,07:20:18,9
	STA	16/09/98 06:29:17	18	16/09/1998,06:29:17,9
	STA	15/09/98 16:10:17	18	15/09/1998,16:10:17,9
	STA	15/09/98 15:30:17	18	15/09/1998,15:30:17,9
	PP1	16/09/98 08:58:33	92	16/09/1998,08:58:33,9
ļ	PP1	16/09/98 08:57:56	92	16/09/1998 08:57:56

#### <u>Scenario type</u>

The scenario type condition the ASCII file name extension. Direct sun data (SUN type) will create file with a .SUN extension.

If the scenario isn't recognized by the software, the type is ???. Please contact CIMEL Electronique to add the new scenario in the program.

# Scenarios suppression

It's possible to suppress bad or uninteresting scenarios.

Taille :	32768 octets Do	nnées : 1	83 scéi
Туре	Date / Heure	Taille	Donn
SKX	05/09/94 14:09:42	30	05/09
SKX	05/09/94 14:10:06	30	05/09
SKY	05/09/94 14:10:49	30	05/09
SKY	05/09/94 14:10:59	30	05/09
SUN	05/09/94 14:12:01	30	05/09
SUN	Voir détails	30	05/09
SUN	Currenting	30	05/09
SUN	Supprimer	30	05/09
SUN	05/09/94 1	30	05/09
SUN	05/09/94 14:15:01	30	05/09
STA	05/09/94 14:17:28	18	05/09
SUN	05/09/94 14:18:01	30	05/09
L CLIM	05/00/04/14.10.01	20	0E /00

Select scenarios to remove, click on the right mouse button and select « Remove ». It's also possible to suppress the events with the main menu « Measurement->Delete measurements ».

The selected scenarios are <u>definitely</u> removed from the K7 file.

# Measurement details

To know the details of one event, choose in the main menu «Measurement -> Measurement details ».

A new window appears and shows the details of one measurement. Each symbol correspond to a data type family :

HAL 1	Date
Ø	Time
۲	Filter number
l	Temperature
₽	System data
<u> 1</u>	Battery
4	Angle
₩	Physical data (DC)



# Advanced options

#### Display empty scenarios (.INI)

It's possible to hide or to show the empty scenario (0xFF Type) in the scenario list. By default, this scenario type is hidden because it don't bring interesting information. To activate that option, select the menu «Tools->General setup», «misc.» tab and check «Display empty scenarios (.INI)»

#### Display scenarios with errors

It's possible to hide or to show the scenarios with errors (transmission error, bad checksum, unknown scenario or impossible to decode...) in the scenario list. By default, these scenario types are displayed.

To activate that option, choose the menu «Tools->General setup», tab «misc.» tab and check «Display scenarios with errors».

# **Data processing and Plug-Ins**

#### ASTPWin Software organization

ASTPWin is an open software which manage particular treatment adding :



#### How the Plug-Ins work

Physically, a plug-in is a .DLL file with optionally some others data files. When it's placed in the plug-in directory, it's automatically added in the ASTPWin interface (typically in the « Processing » menu) when the application starts :



#### Plug-Ins directory

You must indicate in what directory the plug-ins are stored.

To modify that directory, select the menu «Tools->General setup», «misc.» tab and give the full path of that directory «Plug-ins directory».

If that directory contains valid .DLL files for ASTPWin, the new processing will be added ASTPWin at its next start (you must restart ASTPWin for chances to take effect).

# **K7** files management

### Generalities

#### What's a .K7 file ?

A .K7 file is originally an image of the inquired instrument memory. It's size is 32kb, exactly the size of the classical CIMEL Electronique instrument memory.

The new extensions allows to overtake that size and the .K7 files produced by ASTPWin can do more than 32kb.

#### Importance of K7 files in relation to ASCII files

A K7 file can produce ASCII files, but <u>the inverse isn't true</u>. It's very important to keep the K7 file rather than the ASCII files.

The K7 file contains :

- Instrument parameters (at the acquisition time)
- The scenarios that are correctly decoded
- The bad or partially transmitted scenarios (except for merged files)

If a scenario isn't well decoded (due to a software problem), it's possible to correct the bug from the K7 file. If the use remove the K7 file, it's impossible to go back. Besides ASTPWin plug-ins are exclusively using K7 file format.

#### ASTP for DOS compatibility

The compatibility between ASTPWin and ASTP for DOS is total and in both directions :

- ASTP for DOS can use ASTPWin files.
- ASTPWin can use ASTP for DOS files.

There's a limitation with files <u>larger than 32kb</u> that aren't supported by ASTP for DOS (it occurs for merged K7 files for example).

# **Opening and saving files**

The K7 file opening can be done in the main menu «File->Open... » or by clicking on the shortcut icon :



Open a K7 file

To write the currently edited file, select the menu «File->Save » or click on the shortcut icon :



Save the K7 file

It's possible to change the currently edited file name by selecting the menu «File->Save as... »

### Several K7 file merging

You can merge several file together. That action is very useful to pack several days together to process it all of a sudden. It's possible to create a K7 file that contains the scenarios of several K7 files.

Doubloons and scenarios with transmission errors are eliminated.

The file size can do more than the traditional 32kb that's why it's size is adjusted at it minimum.

To merge the files, select in the menu « File->Merge K7 files »:

\Xi Fusion des fichiers K7	
Fichiers K7 source Répertoire C:\Data\Paris\	-1
Type de fusion	9
C Totale	<u> </u>
🕫 Bornée entre deux dates	
Date de début         Date de fin           01/03/99         I0/03/99	<u> </u>
Progression de la fusion	
V OK X Annuler ? Aide	

The K7 files source directory (1) specify where the K7 files are stored. All these files will be used for the merging and will produced a huge K7 file.

It's possible to add all the scenarios (Complete merging) (2) or to eliminate the scenarios which aren't included between the two dates (Between two dates merging) (3).

The fusion progress shows the merging progression, this process can be long and depends of the computer power and the amount of files to merge.

# **ASCII Exportation**

To use the data in other applications and programs, it's simpler to convert the files in text files which are readable by all the programs.

# **ASCII** exportation SETUP

To configure the ASCII file format, go to the menu <code>«Tools->General Setup»</code> and select the tab <code>«ASCII Format»</code>

_	Configuration ASTP	×
1	Communication Format ASCII Divers Données	
	Données	
<b>9</b>	🔭 🔽 Afficher les années sur 4 chiffres	
	Dates et heures entre guillemets	
2	Dates et heures avec zéros non significatifs	
J	Ajouter un en-tête de description au début de chaque fichier	
4	Séparateurs	
◀ _	Séparateur de liste 🔎 Séparateur décimal 🖯	
5 —	Séparateur date / Séparateur heure :	
ß	Test de la célection	
0	11/12/1998,09:35:03,3592,25.4	
	OKX Annuler? <u>A</u> ide	

The dates can be displayed with four or two digits (For example 2001 or 01), tick the slot (1) to display the dates with all digits, on four numbers.

You are allowed to add quotation marks (") between the dates and the times. That option (2) can be useful with some software for automatic dates recognition.

The option " Dates and times with not significant zeros " (3) allows to display the dates with a fixed size format. To take an example, the  $1^{st}$  January 1998 is displayed 01/01/98 instead of 1/1/98.

It's possible to add a description header describing each column at the beginning of the ASCII files. Select the box (4) to add it, here is an example of a file with this king of header : Date, Time, Sun0, Sun1, Sun2, Sun3, Sun4, Sun5, Sun6, Sun7, Temp 06/03/1999, 13:33:40, 56, 65, 29, 1, 0, 70, 2, 3, 28.7

06/03/1999,13:33:29,57,66,30,1,0,71,2,3,28.7

Each separator can be modified (5) to create files compliant to your recipient software.

The selection test line (6) shows quickly the format that will be used in the ASCII files.

### Current file exportation

To export the currently edited .K7 file, select in the main menu «Measurement->Save ASCII files » or click on the shortcut icon :



•••

#### Save the ASCII files

The ASCII files are created in the same directory of the K7 file but have a different extension. Each extension corresponds to a different measurement :

PP1	Principal Plane
ALM	Almucantar
RDR	Direct radiance status
STA	Instrument status
PPP	Polarized principal plane
SUN	Direct sun measurement
NSU	Direct sun measurement triplet
SKY	Sky measurement
SKX	Sky measurement (Max)
CAX	Calibration sky measurement (Max)
NSK	Sky measurement triplet
SSK	Mixed sun and sky triplet measurement
BLK	Black measurement
RAD	Filter / mirror radiometer measurement
R2M	Filter / mirror radiometer measurement
R4M	Radiometer measurement
R6M	Radiometer measurement (6 filters)
RBK	Filter / mirror / black radiometer measurement
AUR	Halo (aureole) measurement
CON	Cone measurement
GND	Ground measurement
CLL	Calibration radiance measurement
LUM	Radiance measurement
CRS	Sun Cross
CRK	Sky Cross

(this chart is only given for information and may not be complete)

# Several K7 files conversion in ASCII

It possible to convert several K7 files (raw or merged) in ASCII text files. To choose the files to convert, select the menu «File->Convert in ASCII...».

Conversion de fichiers K7 en fichier ASCII	
Fichiers K7 à convertir	
C:\W0RK\eta\\DEUZE\P71a1707.k7 C:\W0RK\eta\\DEUZE\P71a1807.k7 C:\W0RK\eta\\DEUZE\P71a1807.k7	Ajouter
C:\\-ORK\etal\DEUZE\P71m1807.k7	<u>R</u> etirer
Paramètres de la conversion	
Répertoire destination [U:\Data\PicMidi	
Période pour chaque fichier	
C Aucune 💿 Journalière	C Annuelle
C Horaire C Mensuelle	C Infinie
Nom de base des fichiers ASCII PIC98_	
Progression de la conversion	
	🖌 Annular 🖉 Aida
	Annuer Alde

The files list to convert (1) can be modified by adding files (2) or by removing selected files items (3).

Indicate the directory where will be stored the ASCII files (4). The ASCII files are sorted in chronological order and the doubloons are eliminated.

The text files data can be organized in different ways (5):

- No period
- Created files have the same name of the K7 file, only the file extension change.
- Hourly period Data are gathered hour by hour. Files are named hhDDMMYYYY.EXT.
- Daily period
   Data are gathered day by day. Files are named DDMMYYYY.EXT.
- Monthly period Data are gathered month by month. Files are named MMYYYY.EXT.
- Yearly period Data are gathered year by year. Files are named YYYY.EXT.
- Infinite period

Data are gathered in the same file. The file name is the base name with the specific ASCII file extension.

Attention: Bigger is the period, longer is the computation time when adding data.

The base name (6) is an optional prefix that ASTP adds before the text file name. E.g. if the base name is "PARIS\_" and you choose a Monthly period, for the month of June 99, the filename will be PARIS\_0698.EXT (EXT is the extension of the ASCII file)

# Tools

### **Parameters** edition

At the beginning of each transmission are transmitted the instruments EEPROM parameters (Identification, position, gains...). You can visualize and modify (carefully!) these parameters by selecting the menu «Tools->Parameters edition»:

Edition des	paramètre	s III III III III III III III III III I
<b>N</b>		
Paramètre	Valeur	Description
12 Country	33	Numéro du pays (souvent l'indicatif téléphonique)
12 District	1	Numéro de la région ou du département
12) Number	4	Numéro de l'instrument
E node_s	30	Temps entre deux mesures SUN pour le scénario MesAut (en seco
12 T_Offset	+0.0	Compensation du décalage du zéro de la sonde de mesure de la te
12 Org. offset	42	Origine du premier filtre par rapport à l'index sur la roue porte filtres (
12 FSun1	5	Facteur de sensibilité sur SUN [Par défaut: 5]
12 FSun2	5	Facteur de sensibilité sur SUN [Par défaut: 5]
12 FSun3	5	Facteur de sensibilité sur SUN [Par défaut: 5]
12)FSun4	5	Facteur de sensibilité sur SUN [Par défaut: 5]
🔄 FSun5	5	Facteur de sensibilité sur SUN [Par défaut: 5]
12 FSun6	5	Facteur de sensibilité sur SUN [Par défaut: 5]
12 FSky1	5	Facteur de sensibilité sur SKY Ciel [Par défaut: 5]
12 FSky2	5	Facteur de sensibilité sur SKY Ciel [Par défaut: 5]
12 FSky3	5	Facteur de sensibilité sur SKY Ciel [Par défaut: 5]
		OK X Annuler ₹ Aide

It's possible to save the parameters in a text file (1) or to print them (2).

Each parameter can be edited by double clicking on it. Warning, the old parameters will be lost if the modified K7 file is saved.

The name of the parameter is in the first column (3), then come the value of this parameter (4) and the last column describe the parameter (5).

The instrument parameters definition is stored in a .PAR file. If ASTPWin didn't find the file, an error message will be displayed « unable to load the parameter description file ». If the acquisition seems to be a good one, contact CIMEL Electronique to obtain a ASTPWin update (go to the CIMEL Web : <u>www.cimel.fr</u>).