Power on

Sensor Output:

HW\_CONF,000006LP,0,UNDEFINED,0,000123VE,1,150,250,192419,0.600,393819,20000,2,193.49.112.100,0,403,6,20,2342.000,1.136,73,0.610,20210310,202103241604,marc.picheral@obs-vlfr.fr,40.3,50.8,64,80.6,102,128,161,203,256,323,406,512,645,813,1020,1290,1630,2050;

Board should give: $start:ACQ\_CSCS\_022H,YYYMMDD,HHMMSS;

Sensor answers:

ACQ\_CONF,ACQ\_SG\_002L,2,2.000,1,1,0,0,1,0,10,2,620,1.5,100,10,0,1000,0,40,marc.picheral@obs-vlfr.fr,0,393809;

And then it will take one BLACK picture.

BLACK\_DATA,-0.02,20210412,063902,1,20.31,0,2612,0,54,0,0,0,0,0,0,0,0,0,0,0,0,0,0;

We can ignore Black data lines for now. After that it will do a measurement every 2 seconds and returns this line:

LPM\_DATA,-0.02,20210412,063917,1,20.31,0,2267,0,88,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,29,0,32,0,0,0,0,0,0,0,0,0,0,0,0,0,0;

The table below describes what LPM\_DATA frame items mean. There are 18 columns of measurements (starts after 20.31 in the above line, which is the temperature). We need to sum every 4 measurement together and save only that number. So we sum every 4 number for the first 16 numbers and then sum the last 2. For the above line for example, we save:

2355,0,0,0,29

And so on for the rest of the data.

To stop the measurement at the end of the dive we send:

$stop

The UVP6 start to sleep 500ms after the last work if it doesn't receive any other command.  
"starterr:33" means that the UVP6 was sleeping (to save energy) when it received the command.  
So it has interpreted the command loosing some elements.   
When it sends starterr:33, you have 5 seconds to send it again the command.   
  
The best way is to send it again the command as soon as and if you receive a starterr 33.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Unit** | **Min** | **Max** |
| LPM\_DATA | characters | na | na |
| Depth | mH2O |  |  |
| Date | YYYYMMDD |  |  |
| Time | HHMMSS |  |  |
| Number of analyzed images | images | 1 | 28 |
| Internal temperature | °C |  |  |
| Cumulated number of objects for class 1 | entier | 0 | 216 |
| Cumulated number of objects for class 2 | entier | 0 | 216 |
| Cumulated number of objects for class 3 | entier | 0 | 216 |
| Cumulated number of objects for class 4 | entier | 0 | 28 |
| Cumulated number of objects for class 5 | entier | 0 | 28 |
| Cumulated number of objects for class 6 | entier | 0 | 28 |
| Cumulated number of objects for class 7 | entier | 0 | 28 |
| Cumulated number of objects for class 8 | entier | 0 |  |
| Cumulated number of objects for class 9 | entier | 0 |  |
| Cumulated number of objects for class 10 | entier | 0 |  |
| Cumulated number of objects for class 11 | entier | 0 |  |
| Cumulated number of objects for class 12 | entier | 0 |  |
| Cumulated number of objects for class 13 | entier | 0 |  |
| Cumulated number of objects for class 14 | entier | 0 |  |
| Cumulated number of objects for class 15 | entier | 0 |  |
| Cumulated number of objects for class 16 | entier | 0 |  |
| Cumulated number of objects for class 17 | entier | 0 |  |
| Cumulated number of objects for class 18 | entier | 0 |  |
| Mean grey level of objects from class 1 | entier | 0 | 255 |
| Mean grey level of objects from class 2 | entier | 0 | 255 |
| Mean grey level of objects from class 3 | entier | 0 | 255 |
| Mean grey level of objects from class 4 | entier | 0 | 255 |
| Mean grey level of objects from class 5 | entier | 0 | 255 |
| Mean grey level of objects from class 6 | entier | 0 | 255 |
| Mean grey level of objects from class 7 | entier | 0 | 255 |
| Mean grey level of objects from class 8 | entier | 0 | 255 |
| Mean grey level of objects from class 9 | entier | 0 | 255 |
| Mean grey level of objects from class 10 | entier | 0 | 255 |
| Mean grey level of objects from class 11 | entier | 0 | 255 |
| Mean grey level of objects from class 12 | entier | 0 | 255 |
| Mean grey level of objects from class 13 | entier | 0 | 255 |
| Mean grey level of objects from class 14 | entier | 0 | 255 |
| Mean grey level of objects from class 15 | entier | 0 | 255 |
| Mean grey level of objects from class 16 | entier | 0 | 255 |
| Mean grey level of objects from class 17 | entier | 0 | 255 |
| Mean grey level of objects from class 18 | entier | 0 | 255 |