Efficient
Led Lighting
effiLux

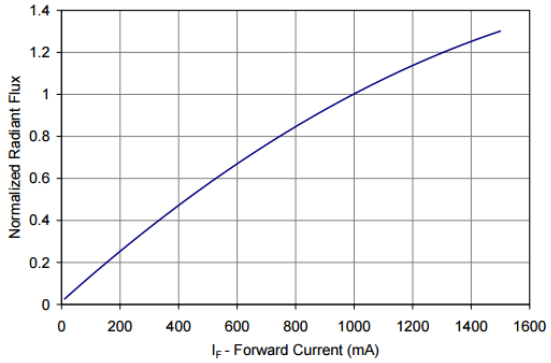
Strobe controller EFFI-IPSC4

Novembre 2015

Key features

IPSC4 = LED Strobe driver

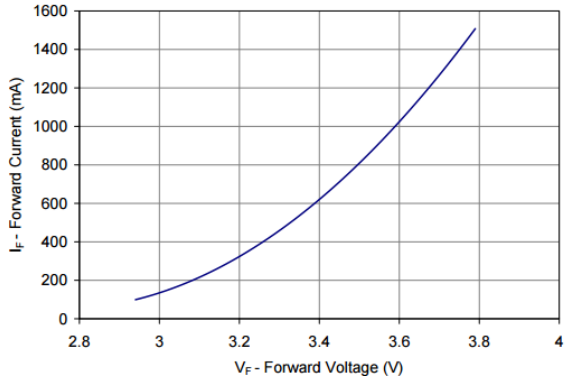
Operator : LED current setting according to the desired LED flux



Features

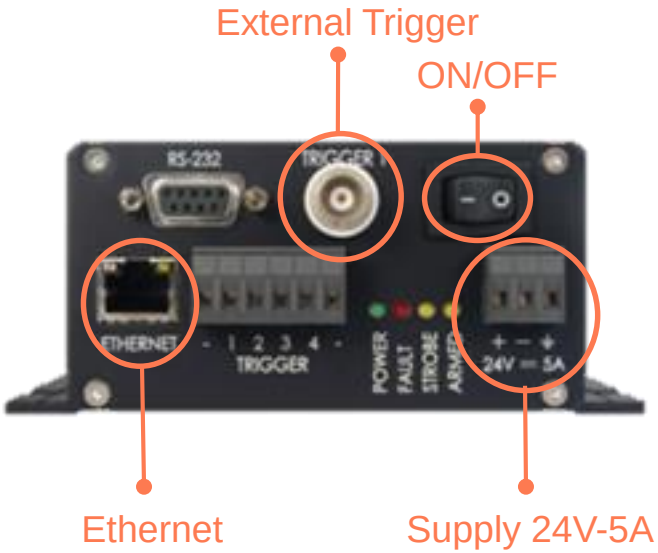
- Ethernet Interface
- Power Supply : 24V – 5A
- Output : 4
- $I_{max\_per\_channel}$ = 1A (CW) & 10A (Strobe)
- $U_{max/sortie}$ = 30V (CW) & 200V (Strobe)
- Pulse : 1µs < t_p < 1000ms

IPSC4 : Smart voltage adjustment according to the number of LED and the current



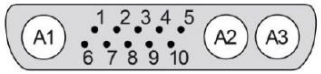
General Connections

Input



Output

Connector type: Deltron DTS 13W3 PZ



1 – **Channel 1, GND**
2 – **Channel 2, GND**
3 – **Channel 3, GND**
4 – **Channel 4, GND**
A1 – +24V DC, max 0.5A (for light head cooling fan)
A2 – Power GND
A3 – **+V, Common Output voltage**

Connections : External trigger

Figure 3 - Voltage carrying trigger source (max. 24V)

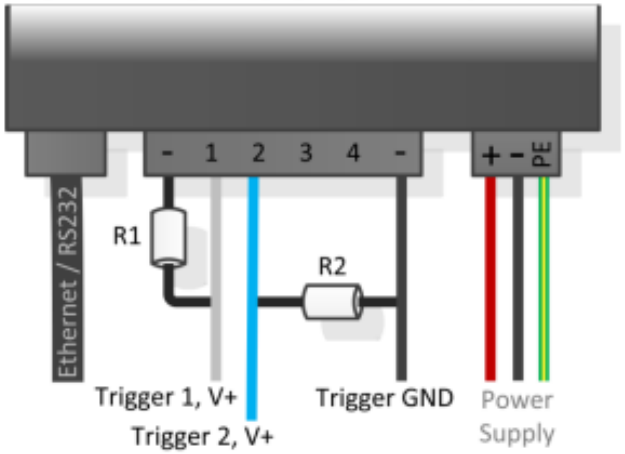
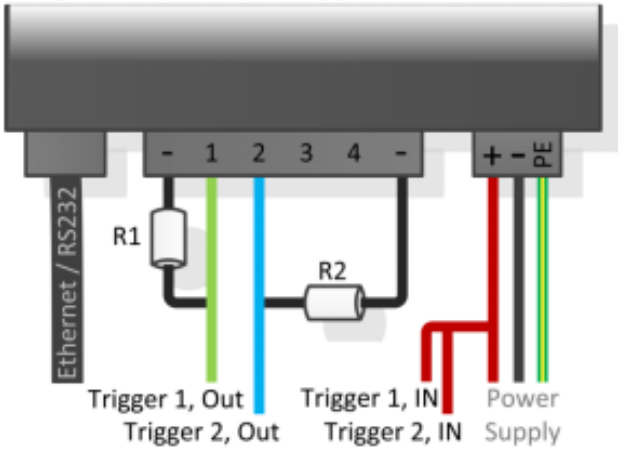
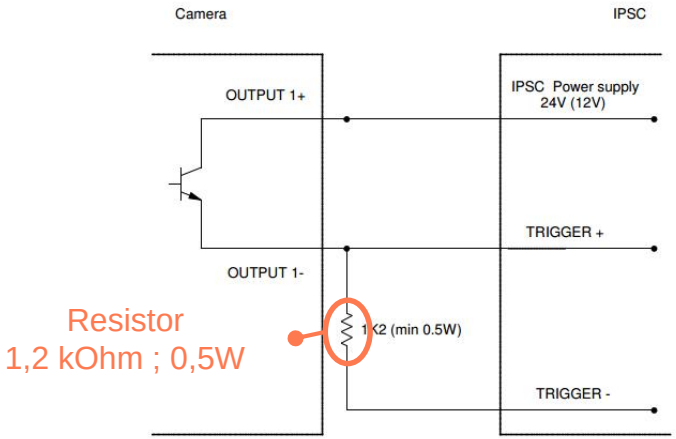


Figure 4 - Opto-coupled trigger source (max. 24V)



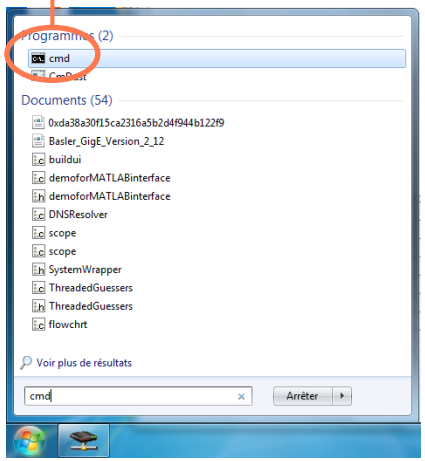


Resistor
1,2 kOhm ; 0,5W

Camera optocoupler should be able to supply min. 20mA current and be rated for min. 24V voltage.

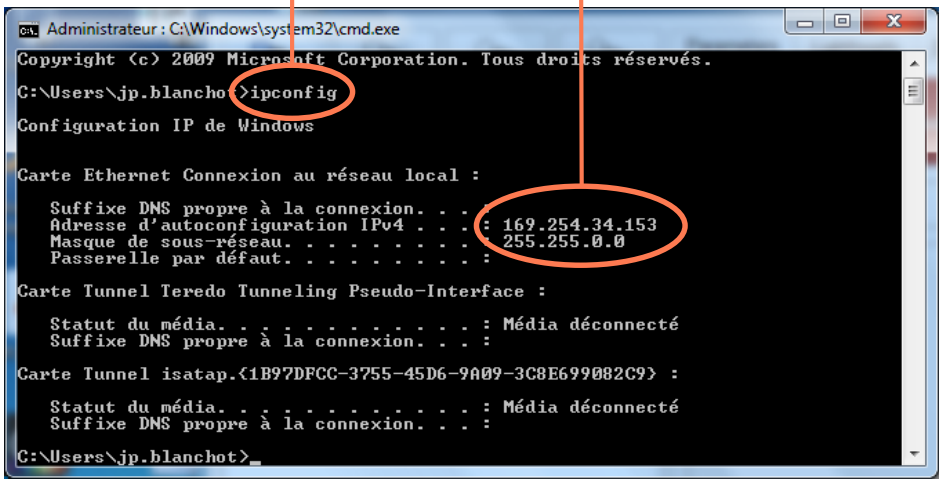
Software Environment : IP address

1. Type « cmd »



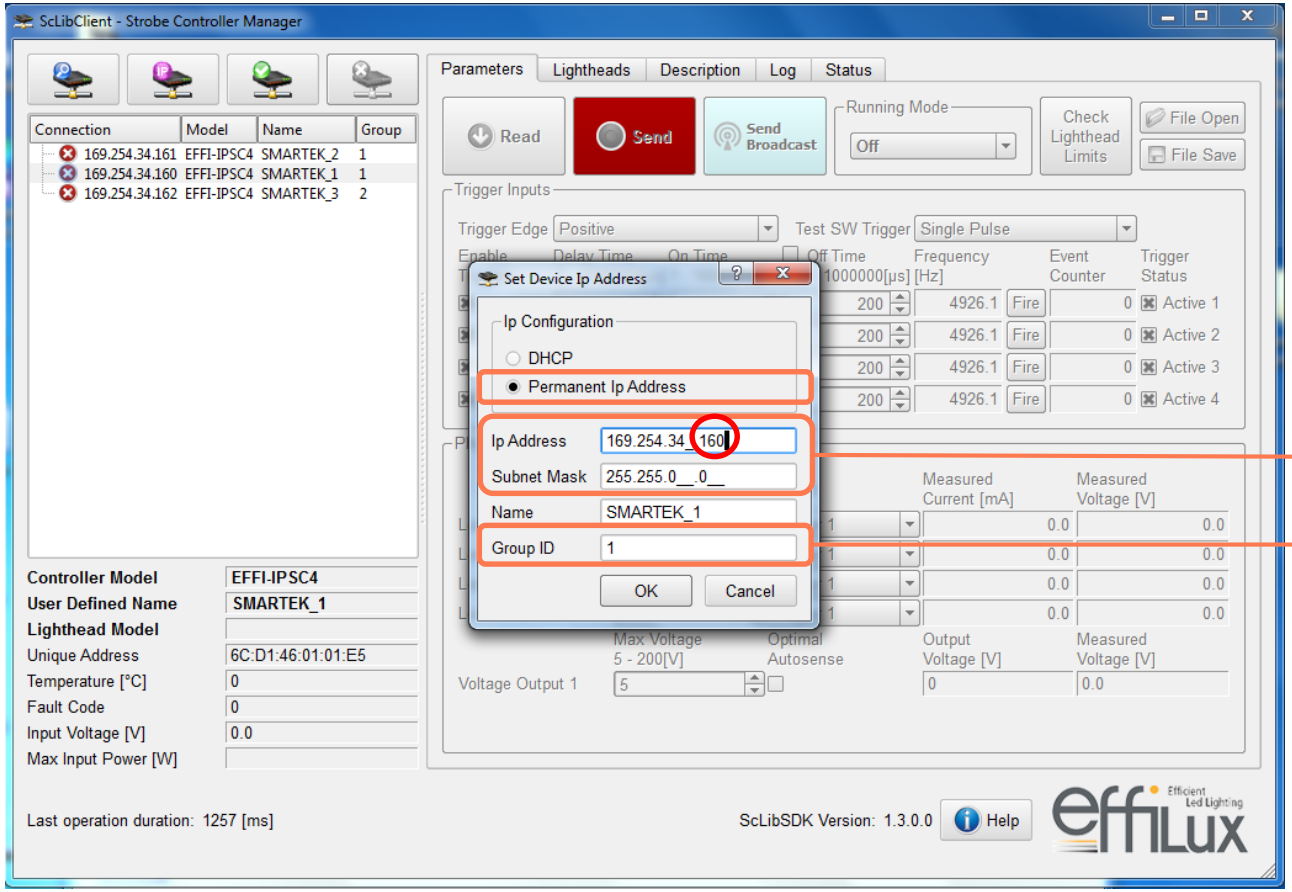
2. Type « ipconfig »

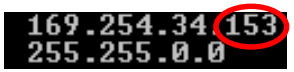
3. IP Address



Software Environment

1. Search IPSC4
2. Config IP
3. Search IPSC4 (reconfiguration)
4. Connect IPSC4

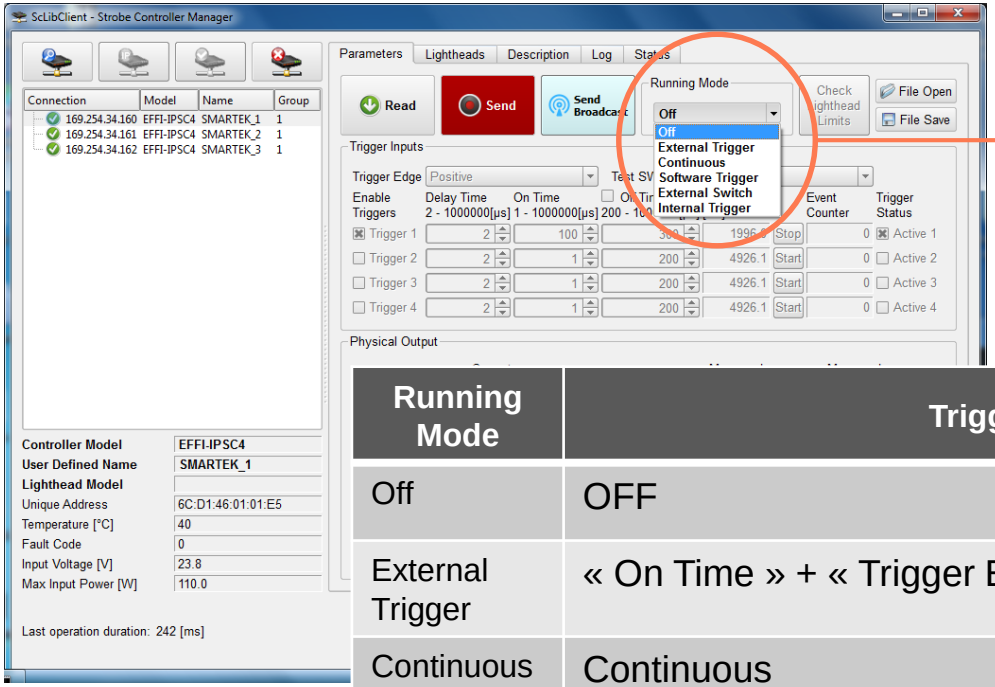




IP Address : /!\
Change the last number for each IPSC4

Choose group : from 0 (without group) to 254

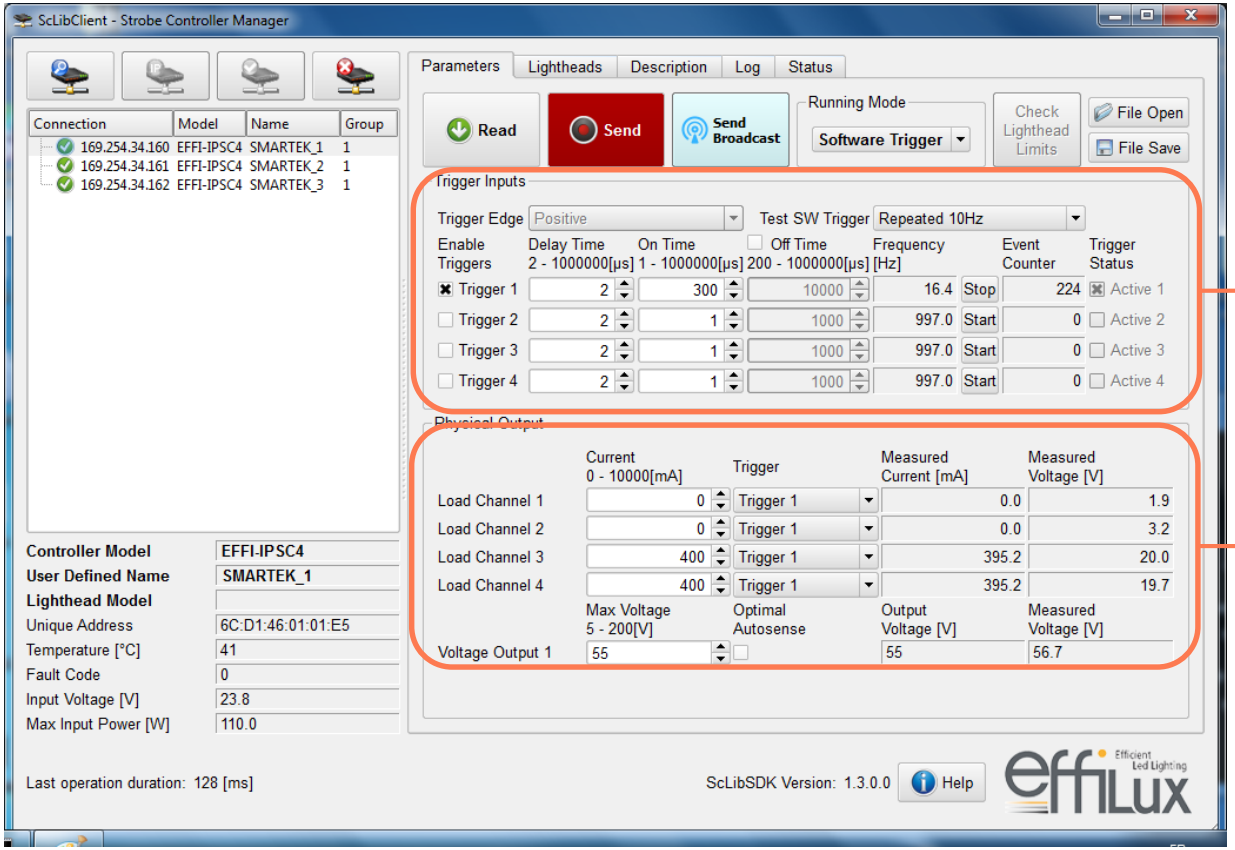
Software Environment : Running mode



Choose the « Running Mode »

Running Mode	Trigger setting	Group Synchrone
Off	OFF	X
External Trigger	« On Time » + « Trigger Edge » + External trigger	X
Continuous	Continuous	X
Software Trigger	« On Time » + « Test SW Trigger »	X
External Switch	Full external setting by GBF	
Internal Trigger	« On Time » + « Off Time »	

Software Environment : Setting

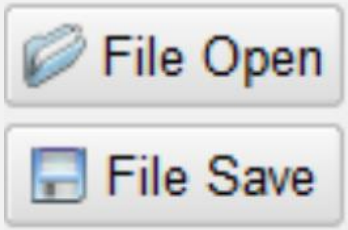


Trigger setting

Output setting
Do not check « Optimal Autosense »

Software Environment

Save setting

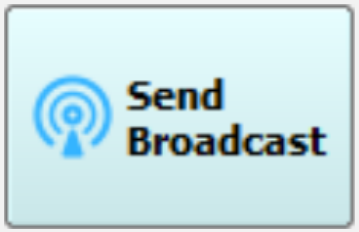


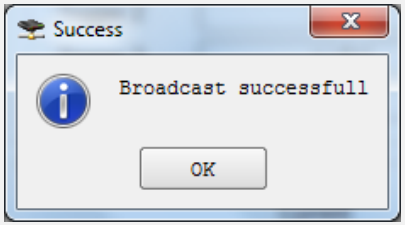
Read state of IPSC4

Send setting

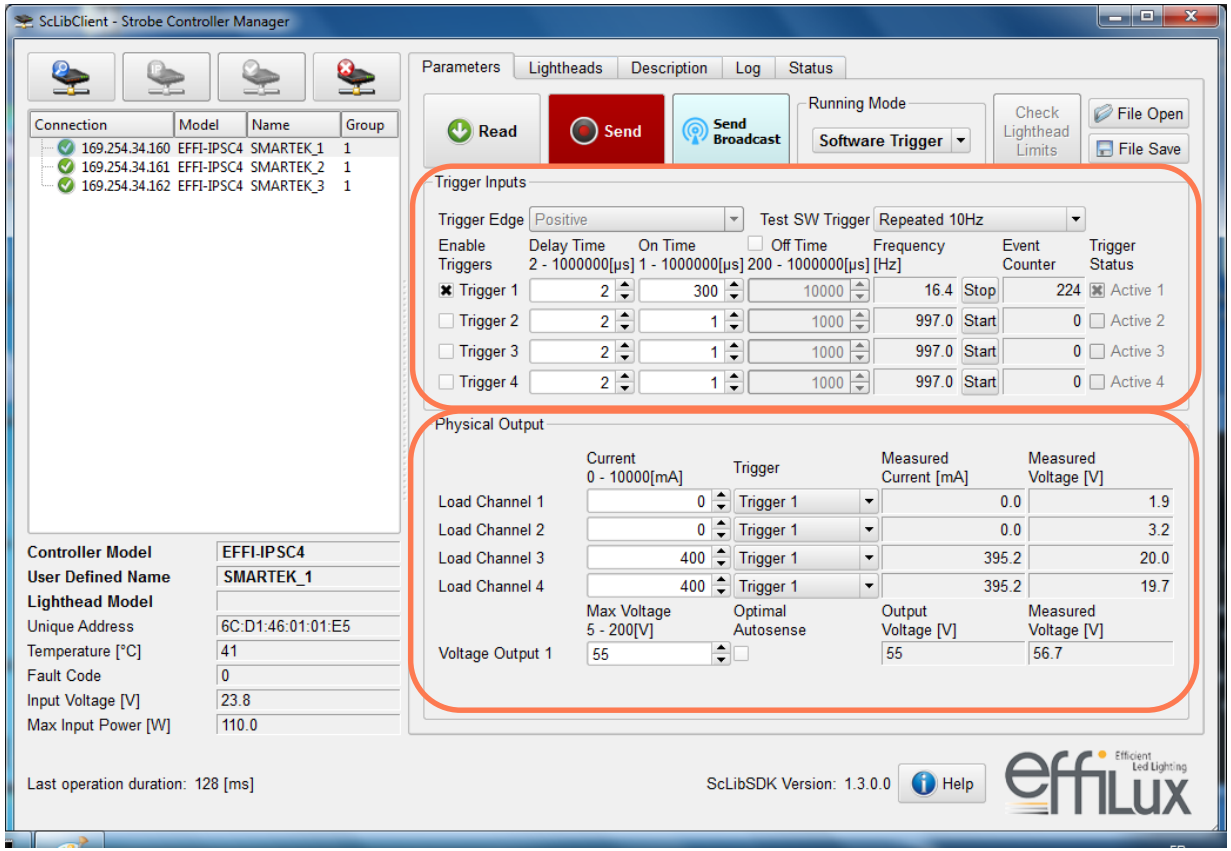
Send to IPSC4 selected

Send to a group





Setting

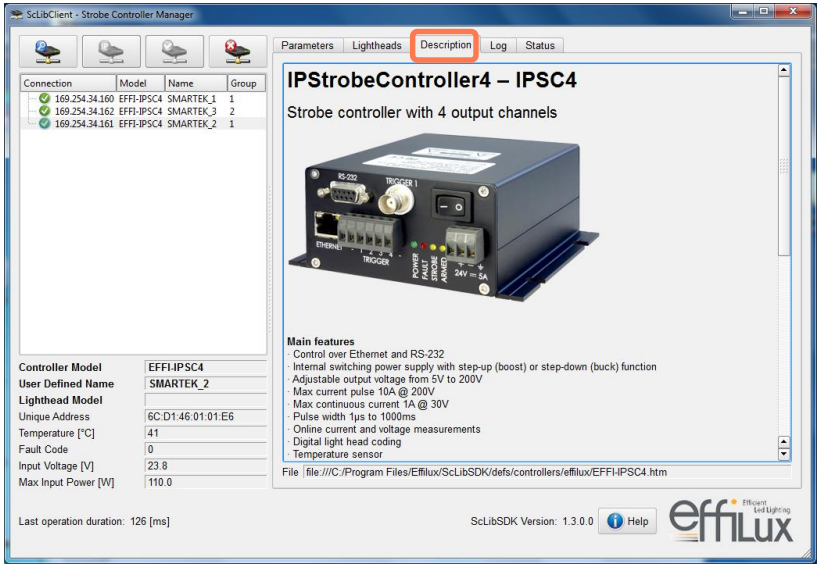


LED Configuration	Max f(Hz)	Current	Max T_{ON} (µs)
0	-	800mA	Continuous
1	100	1.5A	200
2	100	2A	100
3	100	2,5A	50
4	100	3A	20

1. Connect the two IPSC4
2. Allocate IP address (last number different for each IPSC4) + indicate 1 for « group ID »
3. Choose running mode : « External Trigger » (frequency < 100Hz) + complete « Delay time » (> 2µs) + complete « On Time » (between 20µs and 200µs)
4. Indicate current for each channel (Refer to the table)
5. Indicate “Voltage Output” (>60V)
6. To switch ON : “ Send broadcast ”
7. To switch OFF : Choose “ Running mode ” : OFF, then “ Send Broadcast ”

Software Environment

Key feature



Error listing