



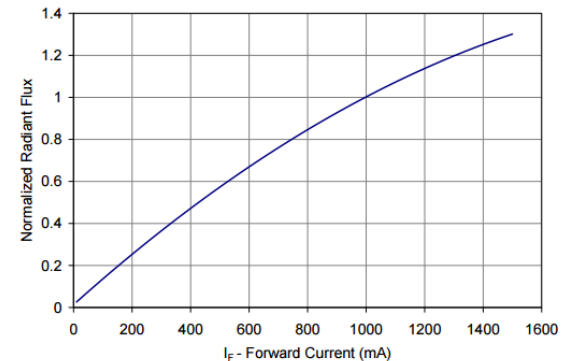
Strobe controller EFFI-IPSC4

Key features



IPSC4 = LED Strobe driver

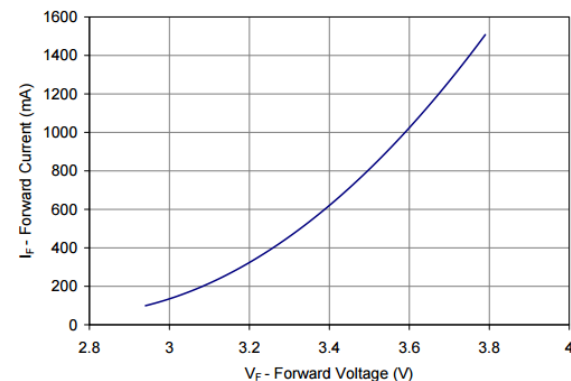
Operator : LED current setting according to the desired LED flux



Features

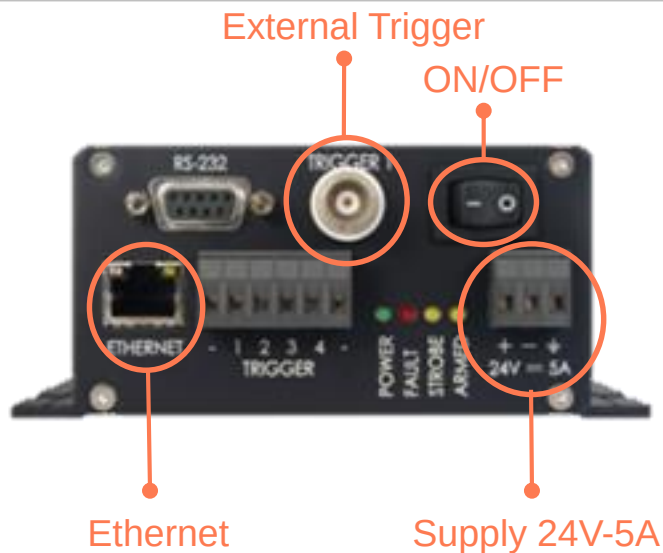
- Ethernet Interface
- Power Supply : 24V – 5A
- Output : 4
- $I_{\text{max_per_channel}} = 1\text{A (CW) \& } 10\text{A (Strobe)}$
- $U_{\text{max/sortie}} = 30\text{V (CW) \& } 200\text{V (Strobe)}$
- Pulse : $1\mu\text{s} < t_p < 1000\text{ms}$

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)

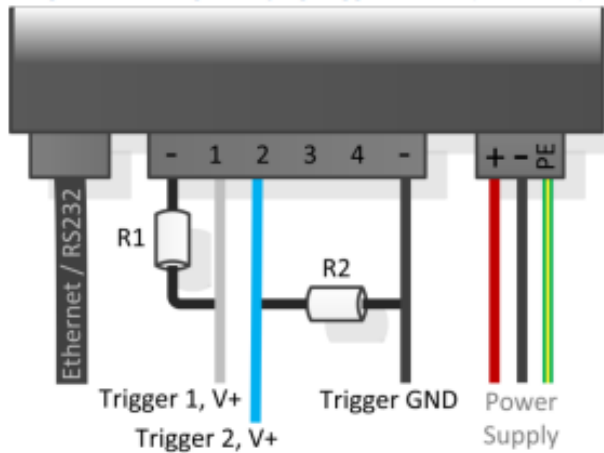
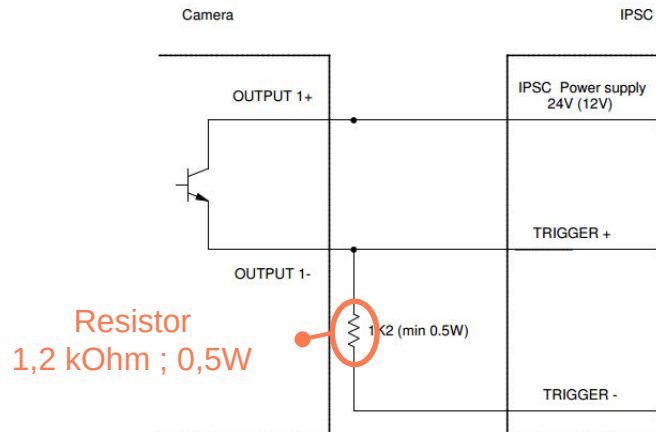
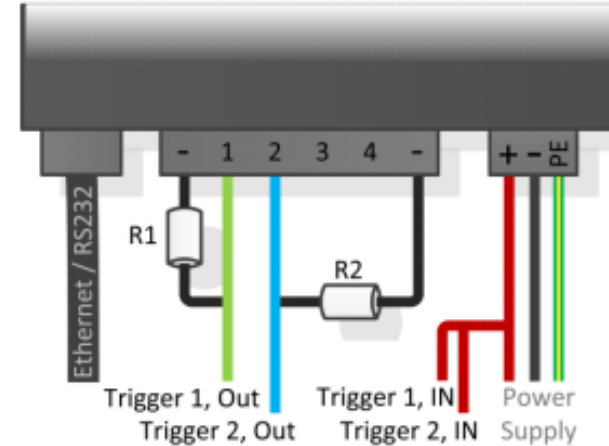


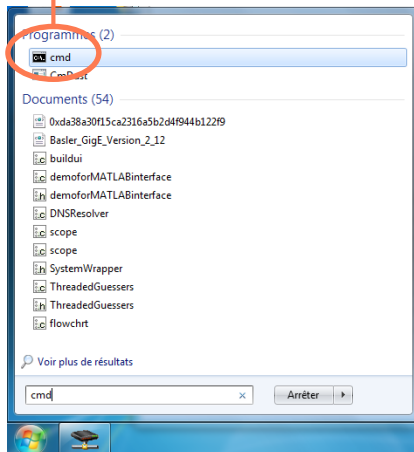
Figure 4 - Opto-coupled trigger source (max. 24V)



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



```
Administrateur : C:\Windows\system32\cmd.exe
Copyright (c) 2009 Microsoft Corporation. Tous droits réservés.
C:\Users\jp.blanchot>ipconfig
Configuration IP de Windows

Carte Ethernet Connexion au réseau local :
    Suffixe DNS propre à la connexion. . . : 
    Adresse d'autoconfiguration IPv4 . . . : 169.254.34.153
    Masque de sous-réseau. . . . . : 255.255.0.0
    Passerelle par défaut. . . . . : 

Carte Tunnel Teredo Tunneling Pseudo-Interface :
    Statut du média. . . . . : Média déconnecté
    Suffixe DNS propre à la connexion. . . : 

Carte Tunnel isatap.{1B97DFCC-3755-45D6-9A09-3C8E699082C9} :
    Statut du média. . . . . : Média déconnecté
    Suffixe DNS propre à la connexion. . . : 
C:\Users\jp.blanchot>
```

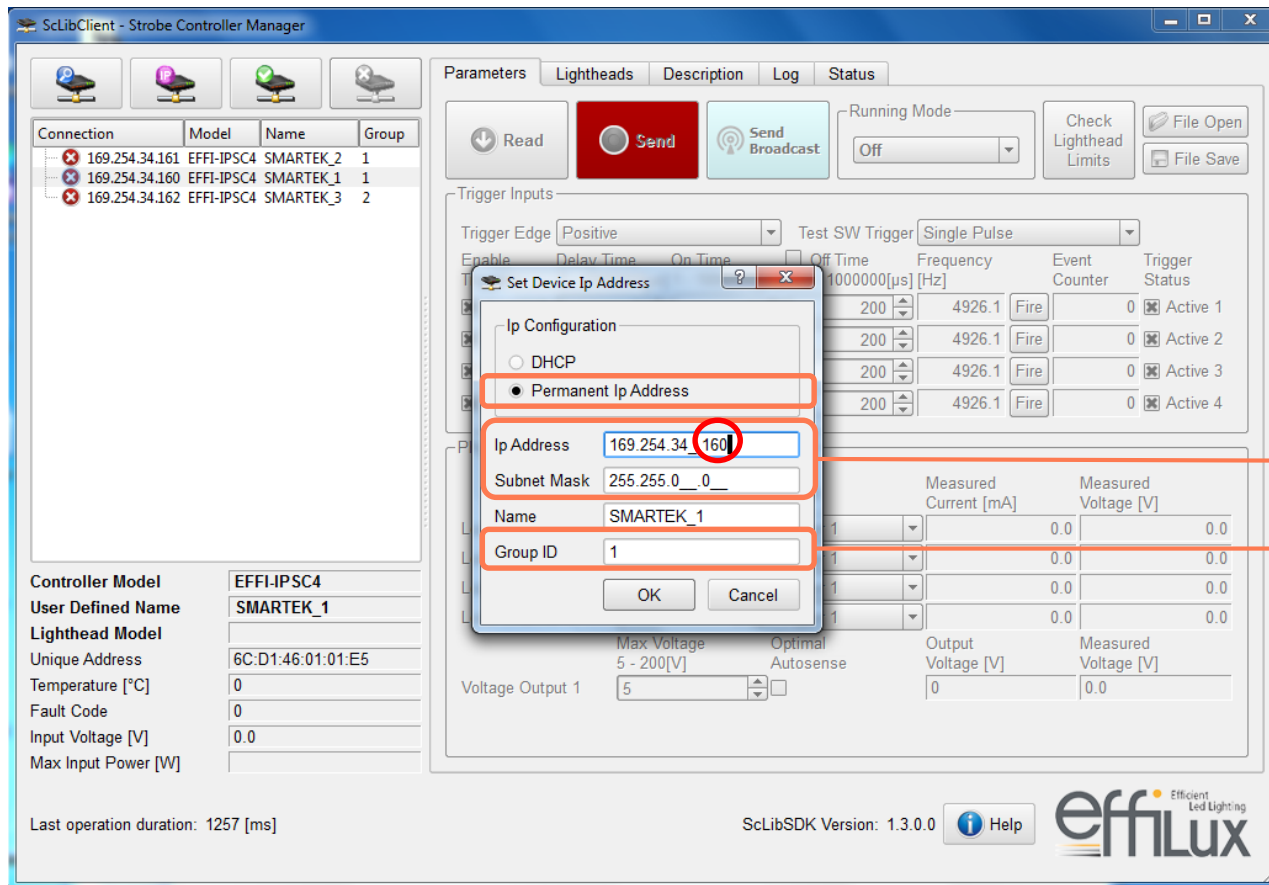
Software Environment

1. Search IPSC4

2. Config IP

3. Search IPSC4
(reconfiguration)

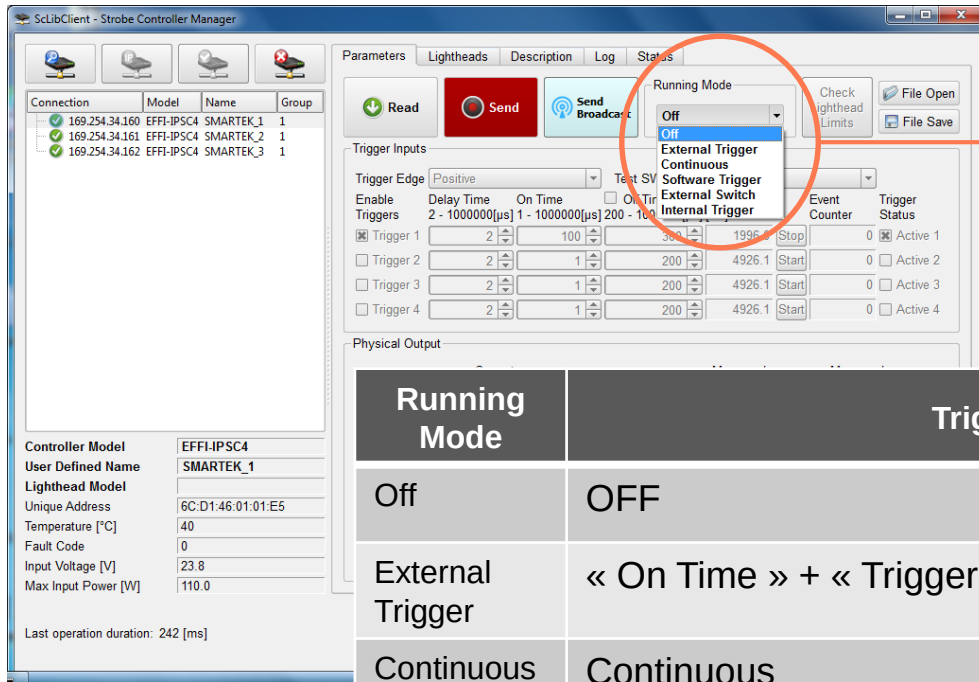
4. Connect IPSC4



169.254.34.153
255.255.0.0

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 Synchronise
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

ScLibClient - Strobe Controller Manager

Parameters | Lighthead | Description | Log | Status

Read Send Send Broadcast

Running Mode: Software Trigger

Check Lighthead Limits File Open File Save

Connection	Model	Name	Group
169.254.34.160	EFFI-IPSC4	SMARTEK_1	1
169.254.34.161	EFFI-IPSC4	SMARTEK_2	1
169.254.34.162	EFFI-IPSC4	SMARTEK_3	1

Trigger Inputs

Trigger Edge: Positive Test SW Trigger: Repeated 10Hz

Enable	Delay Time	On Time	Off Time	Frequency	Event Counter	Trigger Status
☒	2	300	☐	10000	16.4	Stop 224 Active 1
☐	2	1	☐	1000	997.0	Start 0 Active 2
☐	2	1	☐	1000	997.0	Start 0 Active 3
☐	2	1	☐	1000	997.0	Start 0 Active 4

Physical Output

Load Channel	Current	Trigger	Measured Current	Measured Voltage
Load Channel 1	0	Trigger 1	0.0	1.9
Load Channel 2	0	Trigger 1	0.0	3.2
Load Channel 3	400	Trigger 1	395.2	20.0
Load Channel 4	400	Trigger 1	395.2	19.7

Max Voltage 5 - 200[V] Optimal Autosense

Voltage Output 1	Output Voltage [V]	Measured Voltage [V]
55	55	56.7

Controller Model: EFFI-IPSC4

User Defined Name: SMARTEK_1

Lighthead Model:

Unique Address: 6C:D1:46:01:01:E5

Temperature [°C]: 41

Fault Code: 0

Input Voltage [V]: 23.8

Max Input Power [W]: 110.0

Last operation duration: 128 [ms]

ScLibSDK Version: 1.3.0.0

Help

effiLux Efficient Led Lighting

Trigger setting

Output setting
Do not check « Optimal Autosense »

Software Environment

Save setting

 File Open

 File Save

Read state of IPSC4

 Read

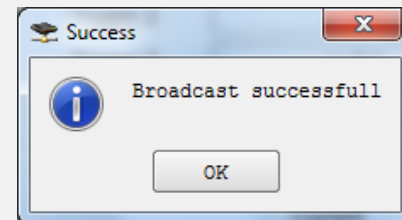
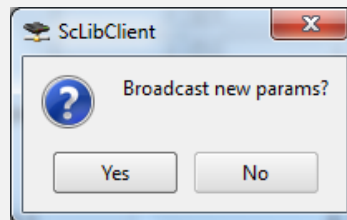
Send setting

Send to
IPSC4
selected

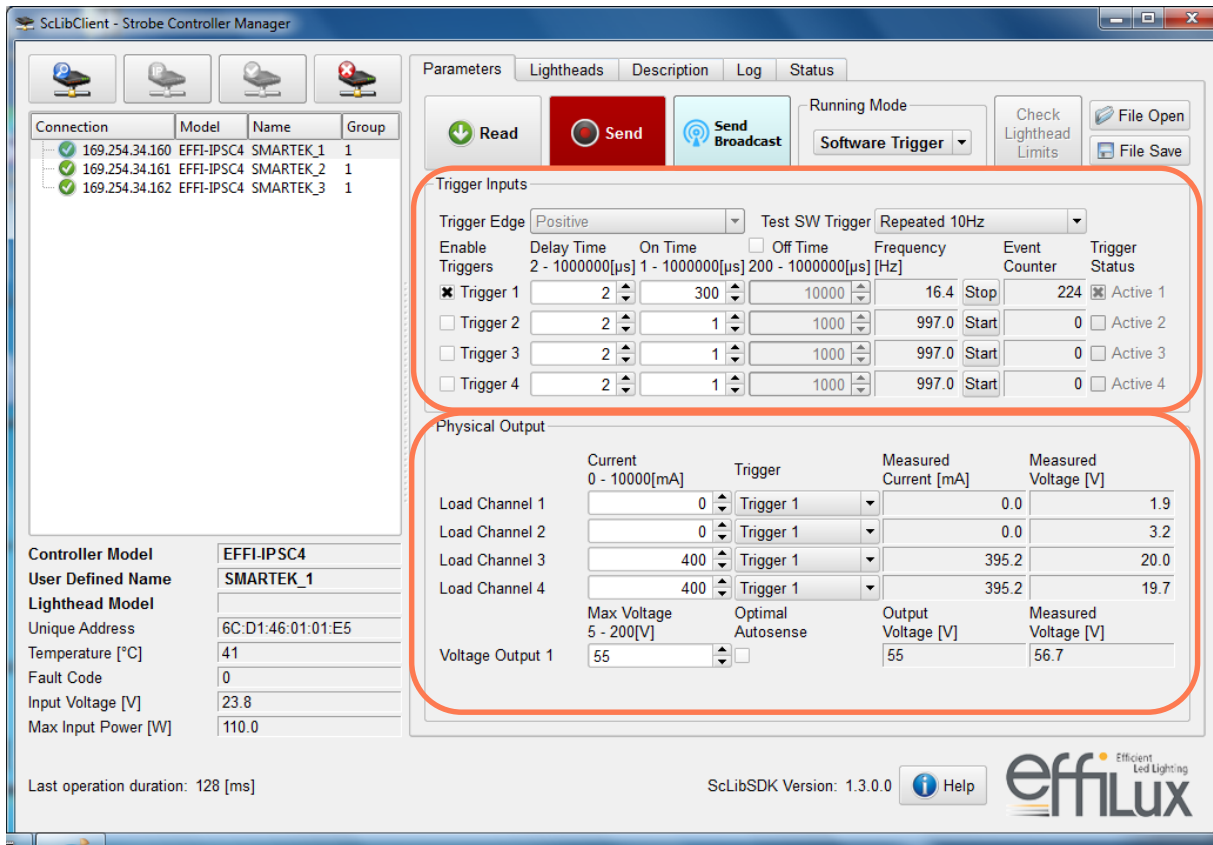
 Send

Send to a
group

 Send
Broadcast



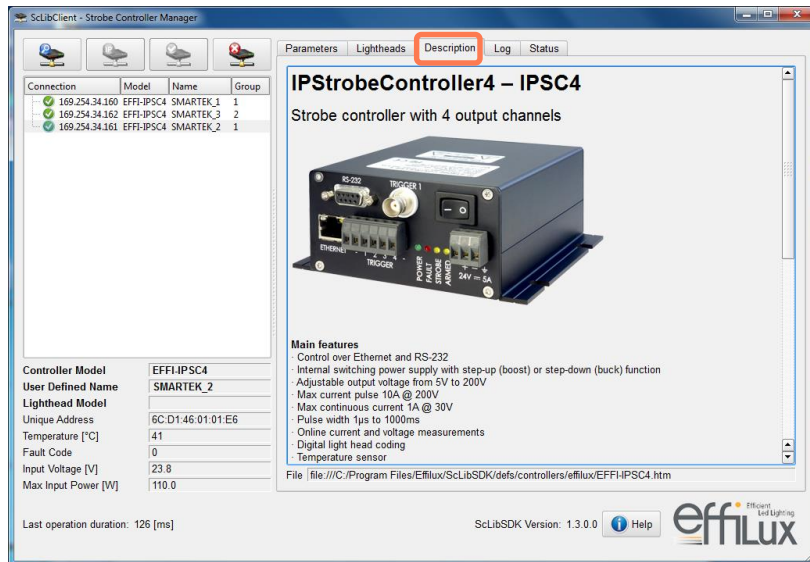
Setting



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 ”

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

Key feature



Error listing

