Print Advice

- Print the cheat sheet on a laser printer double sided in landscape. Size -> [x] double sided -> Use [x] mirrored on the short edge
- The height of the cut out should be 62mm
- Cut it out

Astrolux S43:
The top of the ramp brings you to half of TURBO. A double click brings you to TURBO with 100% Output.
It is made to keep the S43 longer in regulation with very little visual difference.

Links　　S43 lamp on BLF: **http://budgetlightforum.com/node/62239**
　　　　Produced by Astrolux: **http://banggod.com**　　Videos: configuration **http://bit.ly/narsil-vid3** @8.5min
　　　　A Lithium Ion Safety 101 on BLF: **http://bit.ly/liionsafety**　　more about UI **http://bit.ly/narsil-vid1**
Narsil software in the GT thread on BLF: **http://bit.ly/narsilgt**　　　　　**http://bit.ly/narsil-vid2**
Narsil Thread with links to Narsil Manual (PDF) and Advanced Notes (PDF): **http://bit.ly/narsilthread**
Narsil Cheat Sheet (PDF) to print by yourself: **http://bit.ly/narsil-cs**　　GT Support: **http://bit.ly/gtsupport**

Navigation has "Lock in Mode". Explanation: Navigation works only in Modes and Strobe, not in Ramping.
After 1.2sec after setting the brightness you can not increase the brightness with a single click, because it turns it off. But you can first decrease the brightness by a hold and then increase by a single click. A hold in MODES or STROBES wrap from 1st mode to last.
Ramping Explained A hold increases the brightness. If you miss your desired brightness / overshoot, a second hold reduces the brightness. So it toggles direction with each hold. (Timeout for this is 1.2sec)
If your lamp is off, a hold starts first moonlight, pauses shortly and then ramps up.
To indicate the maximum or minimum brightness level the lamp flickers when it reaches this limits.
If You Want to switch from a low brightness level to FULL and back again to the lower level:
- 2x for FULL brightness, then 2x to go low again (Works only in Ramping with strobes = off) or
- 2x for FULL brightness, then 1x for OFF and 1x for last memorized brightness. (Works only in Ramping, strobes = on)

Concept and Design by J. Hollmann

Safety Measures in Narsil
To reach best results use only high quality batteries in the Lamp .
Indication it is ready: 2x blinks after power is applied
In case of a jammed button: Shut off after 20sec
　　Electronic Lock Out in Ramping:
　　Lock out turn ON or OFF　　　4x click
　　　　　　　　　(4x short blinks)
　　Electronic Lock Out in Modes:
　　Lock out turn ON or OFF　　2x click + click&hold
　　　　　　　　　(4x short blinks)

Overheat protection: Output is lowered at 55°C
Low Voltage Protection (LVP)
Output decreasing from (fuel saver) 3.0V on.
　　Main LED: 3x blinks as indication.

Shut off at **2.8V**
　　Main LED: 8x blinks as indication and shut off

You should at least **remove the cells** or **do a mechanical lockout** to prevent any more drainage! Otherwise your batteries can be damaged.

This lamp belongs to:

If found please:
Tel.

Email

The Astrolux S43 is available with two different LEDs: Cree or Nichia. That means the table with the MODES output in percent can be a bit off.

In the **S43** the strobes are disabled by default.
To enable please watch **http://bit.ly/narsil-vid3** from 8.5 min on. To get an idea how to do this. To enable strobes you must klick 3 times instead of one in setting #4 (ramping) or setting #8 (modes).

The **S43** uses an open source GPL firmware called NarsilM.
The same firmware is used in other lights (BLF Q8 and BLF GT)
So the videos for these lights are also helpfull for your lamp. The biggest difference is you must hold the button down for 16sec instead of 8sec to get in configurations menue.
The charging circuit works on its own.

Charging
It has a over-discharging and overcharging protection
Use a micro USB cabel to charge the light. The red light indicates it is charging.
When the LED-Switch turns green unplug the charger.

NarsilM Cheat Sheet
NarsilM v1.3 for Astrolux S43

- It has on the left tables with the user interface operations for RAMPING and MODES. And how to get the temperature and firmware version
- on the right tables how to set up and the mode set table.

Configuration

User Interface

- The arrows indicate how sub-tables are connected.

lock at http://bit.ly/narsil-vid3 @8,5min before

- In the "Mine" column you can enter your settings

PLEASE CUT HERE ✂

Overview Click Sequences NarsilM for version 1.3 (Cheat Sheet for Astrolux S43 Rev. B)

RAMPING / MODES (from OFF)

RAMPING Clicks	Action	MODES Clicks	Action
- 1x	last level ON	- 1x	first mode (from the mode set) a) ON
- hold	moon + ramps up	- hold	last mode (from the mode set) = full
- 2x	TURBO = max level b)		
- 3x	battery check		
- 4x	lock out on/off (4x short blinks)	- 1x + hold	temporarily locator LED off/on c)
- 5x	momentary (for off: Power Reset)	- 1x + hold (for 2.5 sec)	battery check
		- 2x + hold	lock out on/off (4x short blinks)
		- hold (over 1.2 sec)	strobe #1

RAMPING / MODES (from ON)

RAMPING Clicks	Action	MODES Clicks	Action
- 1x	switches lamp OFF	- 1x	next mode or after 1.2sec OFF
- hold	ramps up, if max level = ramps down d)	- hold	previous mode
- 2x	TURBO = max level b)		
- 3x	battery check		
- 4x	lock out on/off (4x short blinks)		
- 5x	momentary (for off: Power Reset)	- 2x + hold	lock out on/off (4x short blinks)
		- hold (over 1.2 sec)	strobe #1

Navigation for MODES and STROBE

Blink Out Temperature

"from battery"check via 2x
45°C would be 4 blinks, pause, then 5 blinks
like in battery check

Blink Out Firmware Number

from "Blink Out Temperature" via 2x
version 1.2 would be 1 blink, pause, then 2 blinks
like in battery check
To RESET to factory settings: hold for at least 1.2 seconds. Success indicator: 4x short blinks

Strobe Modes / Blinky Modes

to get strobe:
from Ramping: go to full, then 2x Clicks
from Modes: longhold
then navigation works as in Modes
to end: a click for off

Strobe #	Modename
1	18 Hz strobe
2	police strobe
3	bike strobe e)
4	2 sec beacon
5	10 sec beacon

a) depends on option "Mode Memory". If set = 2, it starts with the last memorized mode. Default is 1 = off
b) This max level is not memorized. So you can 2x for full and to go back to the previous brightness, please use: Switch OFF and ON
d) Every consequent hold within 1.2 sec reverses the ramping direction.
c) When enabled in Advanced Settings
e) Continuous light with a brighter stutter so car drivers notice you better at night.

Configuration Settings — MODES

from Modes = "hold" for 3.2sec
2x short blinks 1x long blink

Setting #	Function	Clicks	Default Value	Mine
1	Ramping Mode	1=disable, 2=enable	2	
2	Choose Mode Set	1-12 (1-7 is # of modes) see Mode Sets	4	
3	Moon Mode	1=disable, 2=enable	2	
4	Mode ordering	1= sets lo→hi, 2=sets hi→lo	1	
5	Mode Memory	1=disable, 2=enable	1	
6	Set Moonlight	Level 1-7 (PWM value)	3	
7	Thermal / timed Stepdown	1=disable, 2=Temperature f) , 3=timed. Timed: 1=60sec, 2=90sec, 3=2 min, 4=3min, 5=5 min, 6=7 min	2	
8	Blinky mode	1=disable, 2=one strobe, 3=all strobes/beacons	1	

bypass the 3.5 sec wait: doing a hold to skip to the next setting.
to end: hold, untill exit is indicated with 4x short blinks

Mode Sets

from "Chose Mode Set"

Mode Set Order	Mode Count	Mode Percentages S43	Notes
1	1	full only	(full is always max FET)
2	2	7 - full	
3	3	3 - 36 - full	
4	4	0.7 - 7 - 38 - full	
5	5	0.7 - 3 - 7 - 38 - full	
6	6	0.5 - 3 - 9 - 29 - 60 - full	
7	7	0.6 - 1.6 - 4 - 7 - 34 - 61 - full	
8	3	7 - 21 - 50	
9	3	0.7 - 17 - full	
10	3	0,7 - 34 - full	
11	3	7 - 34 - full	
12	4	0.5 - 6 - 42 - full	

to end: not needed, it continues to Configuration Setting number three (#3)

Configuration Settings — RAMPING

from Ramping = "hold" for 16sec
2x short blinks 1x long blink

Setting #	Function	Clicks	Default	Mine
1	Ramping Mode	1=disable, 2 = enable	2	
2	Set Moonlight Level	1-7	3	
3	Thermal / timed Stepdown	1=disable, 2= Temperature f), 3= timed. Timed: 1=60sec, 2=90sec, 3=2min, 4=3min, 5=5min, 6=7min	2	
4	Blinky mode	1=disable, 2= one strobe, 3=all strobes /beacons	1	

bypass the 3.5 sec wait: doing a hold to skip to the next setting.
to end: hold, untill exit is indicated with 4x short blinks

f) To set Temp.: Wait with click till lamp gets hot. If clicked before 5sec = No new temp. is set. Default is 55°C. See more in the main manual

Advanced Configuration Settings

from "Battery Check" Mode via hold
2x short blinks 1x long blink

Setting #	Function	Clicks	Default	Mine
1	Locator LED feature	1=disable, 2=enable	2	
2	Battery level Indicator LED Only	1=disable, 2=enable	1	
3	Indicator LED Enable	1=disable, 2=enable	2	

bypass the 3.5 sec wait: doing a hold to skip to the next setting.
to end: hold, untill exit is indicated with 4x short blinks

A few Notes:

1x is a single click, 2x is a double click, 3x is a triple click.
hold = You press the button and hold it down a bit longer. When you have to hold it down much longer it is mentioned.

If you have a problem at OFF, lamp seems not respond to click:
Timing of click for off, hold the switch just a tad too long and the Lamp will not register it as shut down command but treat it as a very short ramp command. Your light is not broken. Please try a very fast and short click.

Quick introduction for newbies or relatives:
- Don't hold the button down for longer than 16 seconds! The lamp will enter configuration and starts wild blinking. Don't push a button or you change things. In case handle it to a pro or search for reset in the cheat sheet.
- Don't look in the working end!
- One click on, one click off.
- Push the button and keep it holding for ramping. Rember to release within 16 seconds.

JasonWW has a few Videos about the NarsilM user interface: **http://bit.ly/narsil-vid1**

Reset to factory in RAMPING:
The Lamp can be OFF or ON:
3x, 2x, 2x, hold (for 1.2sec) till 4 blinks

Reset to factory in MODES:
Only from OFF:
1x, click&hold (for 2.5 sec), 2x, 2x, hold (for 1.2sec) till 4 blinks

Strobe Modes: (changed from NarsilM v1.0)
Hint: In the S42 the strobes are off by default. To activate see backside.
The normal way to use strobes (RAMPING: 2x, 2x, Y clicks [Y=1...4]) is time sensitive because of the lock in modes. Some people are not quick enough for the Y clicks, because the Ys have to be done right after the second double click.
If navigation is hard, try:

RAMPING from OFF/ON: Double click, double click. Now you are in the 1th strobe = 18Hz Strobe.
or
MODES from OFF/ON: Longhold (over 1,2sec). Now you are in the 1th strobe = 18Hz Strobe.

Now you can go back via hold. You can go back endlessly. If you go backwards you have time to do this.

MODES The mode sets in the table are exclusive moonlight. If you choose mode set #6 (which has 6 values in the table) and enable moonlight you will end up with 7 brightness levels.

Switch from MODES to RAMPING
(while holding, the lamp goes into strobes, that's normal)
hold for 3.2sec, after two short blinks and one blink, do a doubleclick (2x).
The lamp continues to blink out configuration for RAMPING.

Switch from RAMPING to MODES
(you hold for a long time, if you ramp down it's easier on the eyes)
hold for 16sec, after two short blinks and one blink, do a single click (1x).
The lamp continues to blink out configuration for MODES.

Basically it is holding the button till it blinks 2x and 1x and than a double click shuts RAMPING on or a single click shuts it off.

Now you can wait till the lamp is gone through the rest of the config menu. The lamp will blink four times short when finished.

If strobes are completely disabled in the settings:
A 2x click from 2x turbo should restore the previous level you were at.
S43: The strobes are disabled by default. To activate see backside.

There is a bit of confusion when you read in the forum about Narsil and its version numbers, because they are not straight and there was a name change to NarsilM. Open Source under GPL

Narsil / NarsilM Timeline
2016-07   Narsil v1.12
2016-09   Narsil v1.1 (because only two digits blink out)
2016-09   Narsil v1.2
2016-10   fork to Narsil Triple
2017-04   Narsil v1.3
2017-05   NarsilM v1.0
(Narsil Multi, combines Narsil 1.3 and Narsil Triple)
It is used in the BLF Q8 and the Q8 uses only two channels.
2017-08   NarsilM v1.1 for the BLF GT prototype (with Buck driver support merging) also another config: GTBug
2017-10   NarsilM v1.2 config: 2C1S
2018-05   NarsilM v1.3 for Haikelite MT09R (Texas_Ace)
2018-07   NarsilM v1.3 for Lumintop GTmini (Texas_Ace)
2018-08   NarsilM v1.3 for Lumintop GT70 (Texas_Ace)
2018-10   NarsilM v1.3 for Astrolux S42 with charging (Texas_Ace)