# NarsilM Reference

(NarsilM –Multi-channel v1.0)

## Ramping Operation

- From OFF, press&hold ramps up with a pause at moon level -- click to turn ON at last level
- From ON, press&hold ramps up or down, changing direction unless paused for at least 1.2 sec – click to turn OFF
- Double-click from OFF or ON to go to max level (the max level does not override the last level)
- Triple-click from OFF or ON to engage Battery Check mode
- 4X-click from OFF or ON to Lock-Out the light (4 blinks to confirm, indicator LED off in Lock-Out). Same to unlock.
- When at max level, a double-click will turn the 1st Strobe ON, if enabled
- When in Strobe, clicks without pausing will skip to the next special mode (strobe or beacon). Just like normal mode set operation: press &hold goes to the previous special mode, paused in a mode will lock it in
- In Battery check mode, a double-click blinks out temperature in Celsius (not factory calibrated), another double-click blinks out the firmware version # (v1.0 is 1 blink followed by a pause)

## Mode Set Operation

- From OFF, a click goes to 1st mode, while a press&hold (~1/3 sec) goes to last mode
- When ON, a click goes to next mode, while a press&hold goes to the previous mode
- if paused in a mode (over 1.2 secs), the mode locks in and then a click will turn the light OFF
- If you are locked in a mode, a press&hold will still work to go to previous mode, and the lock-in cancels
- in any mode, including OFF, a long hold (over 1.2 secs) will turn the 1st Strobe ON
- To engage Battery Check, from OFF, do a click quickly followed by a press&hold
- To Lock-Out the light, From OFF, 2 clicks in quick sequence followed quickly by a press&hold. Same to unlock.
- When in Strobe, clicks without pausing will skip to the next special mode (strobe or beacon). The special modes work just like normal modes: press&hold goes to the previous special mode, paused in a mode will lock it in
- In Battery check mode, a double-click blinks out temperature in Celsius (not factory calibrated), another double-click blinks out the firmware version # (v1.0 is 1 blink followed by a pause)

### Mode Sets

| Mode Set Order | Mode Count | Mode Percentages | Notes |
|---|---|---|---|
| 1 | 1 | full only | (full is always max FET, no 7135) |
| 2 | 2 | 10-full | max 7135, max FET |
| 3 | 3 | 5-35-full | 5=1/2 7135, 35=mixed |
| 4 | 4 | 2-10-40-full | 10=max 7135, 40=mixed |
| 5 | 5 | 2-5-10-40-full | 10=max 7135, 40=mixed |
| 6 | 6 | TK BLF A6 7 mode | 6 well evenly spread modes |
| 7 | 7 | 1-2.5-6-10-35-65-full | 10=max 7135, 35=mixed |
| 8 | 3 | 10-25-50 | 10=max 7135 |
| 9 | 3 | 2-20-full | 2=1/5 7135, 20=mixed |
| 10 | 3 | 2-40-full | 2=1/5 7135, 40=mixed |
| 11 | 3 | 10-35-full | 10=max 7135, 35=mixed |
| 12 | 4 | TK BLF A6 4 mode | 4 well evenly spread modes |

## Configuration UI Operation

For Ramping, hold the button for 8 seconds, and for Mode Sets, hold the button for 3.2 seconds to activate the main Configuration UI settings. The light blinks 2 times quickly, and once slowly to indicate Configuration UI mode is active. As listed below, you can change or leave any of these settings – there's no need to set each one. Clicks choose the value for each setting, and each click will blink the light to acknowledge the click. If you disable Ramping, then the next setting will be #2 under Mode Sets, and vice versa. If no clicks are entered in 3.5 seconds, the light jumps to the next configuration setting indicated by 2 quick blinks and slow quicks of the number for what setting it is (ex: 3 slow blinks means the 3rd setting). You can bypass the timeout by doing a press&hold to skip to the next setting. If you continue to hold it, it will exit configuration UI settings mode altogether, indicated by 4 quick blinks.

For thermal stepdown, the main LEDs will go to max output, if you click in under 5 secs, the set temperature will be unaffected, but more than 5 secs, the current temperature reading will be recorded as the new temperature to use for the stepdown – be sure you set it high enough – light should be hot enough to barely hold, or even hotter. Factory default temperature is 55C, but calibration will vary from unit to unit. When timed stepdown is chosen, it will blink, prompting to enter the choice of time, 1-7 clicks as described below.

To reset settings to factory defaults, in firmware version # display, press&hold for at least 1.2 seconds.

### Configuration Settings – Ramping

| Setting # | Function | Clicks | Defaults |
|---|---|---|---|
| 1 | Ramping Mode | 1=disable, 2=enable | 2 |
| 2 | Set Moonlight Level | 1 - 7 (PWM value) | 3 |
| 3 | Thermal/timed stepdown | 1=disable, 2= Temperature, 3=timed<br>Timed: 1=60secs, 2=90secs, 3=2 mins, 4=3 mins, 5=5 mins, 6=7 mins | 3-4 |
| 4 | Blinky mode | 1=disable, 2=one strobe, 3=all strobes/beacons | 3 |

### Configuration Settings – Mode Sets

| Setting # | Function | Clicks | Defaults |
|---|---|---|---|
| 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, 3=timed<br>Timed: 1=60secs, 2=90secs, 3=2 mins, 4=3 mins, 5=5 mins, 6=7 mins | 3-4 |
| 8 | Blinky mode | 1=disable, 2=one strobe, 3=all strobes/beacons | 3 |

## Advanced Configuration UI Operation

Activated from Battery Check mode by doing a press&hold for at least 1.2 seconds. The light blinks twice quickly, and once slowly. 3 settings summarized below, and operates the same as the main configuration UI.

| Setting # | Function | Clicks | Defaults |
|---|---|---|---|
| 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 |