Quick start

- Unscrew the tail-cap and insert a 18650 cell.
- Double check the polarity every time before closing: The battery must point with plus (nipple) towards the head.
- Screw the tail-cap back. The FM1 will flash twice when electrical contact is made. Continue to tighten the tail-cap to a gentle stop. Do not overtighten.
- All functions are performed using the single side button. Note that pressing this button continuously for more than 16 s enters the UI configuration settings (indicated by the light blinking). If this is done inadvertently, exit the configuration settings by simply releasing the button briefly then pressing it again continuously for about 4 s until all the resulting blinks stops.
- The FM1 comes factory-set to use the **RAMPING** UI: From **OFF**, press&hold the side button. The light output will ramp up from a very low level to full power. Release the button when the required light level is reached. (The full ramp takes about 3 s. To signal 'End of Ramp' it does a subtle blink) Use a single-click at any time to turn the FM1 **OFF**. Please see below for further details.
- There is a very small drain on the battery while **OFF**. This should not be of any concern, but we recommend removing the cell (or partially loosening the tail-cap) if the FM1 will not be used for several months.
- The FM1 on budgetlightforum: http://budgetlightforum.com/node/70873.
- If you transport this light in a bag use at least the electronic lock-out! It will burn things on higher levels!

Default UI: Smooth ramping

This feature-rich UI provides for smooth ramping of the light output between 0 and 50%, with an easily-accessible 100% **TURBO** mode.

		Ι.
Turn the FM1 ON:	single-click the button, FM1 turns ON using the previously used light output level	
Ramp light level:	press&hold button	
Reverse ramp:	while ramping in one direction, release button briefly and press&hold again	
Instant TURBO:	double-click	
Turn the Lamp OFF:	single-click	
MOON mode:	from OFF : press the button and release as soon as the FM1 turns on	
Strobes:	double-click for TURBO , and then double-click again	
	must klick 3 times in setting #4	
types of strobes, but y a strobe longer than 1 click is OFF . Press&ho	8 (modes). Incle forward through the different you have to be quick: If resting on .2 s it locks in and the next single- ld at any time to cycle backwards	
(Use single-clicks to cy types of strobes, but y a strobe longer than 1 click is OFF . Press&ho	rcle forward through the different rou have to be quick: If resting on .2 s it locks in and the next single-	
(Use single-clicks to cy types of strobes, but y a strobe longer than 1 click is OFF . Press&ho through the strobes.)	triple-click (4 blinks, a short pause, then 1 blink would indicate 4.1 V average per cell,	
(Use single-clicks to cy types of strobes, but y a strobe longer than 1 click is OFF . Press&ho through the strobes.) Battery status:	cicle forward through the different rou have to be quick: If resting on .2 s it locks in and the next single- ld at any time to cycle backwards triple-click (4 blinks, a short pause, then 1 blink would indicate 4.1 V average per cell, for example) four clicks to disable FM1,	

Alternative UI: Mode-sets

The FM1 is factory-set to operate using the contemporary **RAMPING** user interface, as described in the previous section. However, the FM1 can also be operated using a more conventional **MODE-SET** style user interface. (See next section for detail on how to set UI options).

Using the **MODE-SET** UI the output does not ramp, it steps from one mode to the next using single-clicks.

e direction, priefly and	Turn the FM1 ON:	single-click		
	Next mode:	single-click before the current mode 'locks in' (1.2 s)		
	Previous mode:	press&hold		
e button and as the FM1	Last mode [100%]:	from OFF: press&hold		
	Turn the Lamp OFF:	single-click button, after resting on a mode more than 1.2 s (mode locked in)		
BO , and ain	Strobes:	press&hold		
setting #4 the different If resting on e next single- e backwards	To enable strobes you (ramping) or setting # (Use single-clicks to control types of strobes, but a strobe longer than 1	The strobes are deactivated by default. To enable strobes you must klick 3 times in setting #4 (ramping) or setting #8 (modes). (Use single-clicks to cycle forward through the different types of strobes, but you have to be quick: If resting on a strobe longer than 1.2 s it locks in and the next single- click is OFF . Press&hold at any time to cycle backwards through the strobes.)		
a short link would age per cell, e FM1,	Battery status:	from OFF: single-click followed by press&hold (4 blinks, a short pause, then 1 blink would indicate 4.1 V average per cell, for example)		
the Lamp nd re- to return to	Electronic lock-out:	from OFF: double-click followed by press&hold, same to re- enable the FM1		
ry status double-click re mode), (firmware), then ut 2 s. Four successful	Factory reset:	from OFF , single-click followed by a press&hold (battery status mode), then double-click (driver temperature mode), double-click again (firmware version mode), then press&hold for about 2 s. Four blinks confirm a successful reset.		

Safety precautions

• Use only reputable 18650 cells of known origin.

MEOTE FM1

USER MANUAL

- Remove and recharge cells when the low voltage indication is given by the FM1 (4 blinks and repeated step-downs in light level and eventual shutdown of the light).
- The extraordinary energy density that 18650 cells offers also means that hazardous conditions are created when a cell is short-circuited or damaged. Always treat cells with respect and properly dispose of damaged cells.
- The FM1 is a very high-intensity flashlight. Do not point the lamp directly at a person, animal, moving vehicles or flammable materials.
- When running at higher output levels the head of the FM1 will quickly heat. This is normal. In warmer ambient conditions this temperature may exceed 60°C, so please take the necessary precautions when handling the FM1.

Advanced operation

By default the FM1 is set to suit most users and applications, but several settings are userconfigurable. To enter the configuration settings, press&hold the button for about 16 s (3 s if in the MODE-SET UI), do not release until a double flash followed by a single blink is seen. The single blink is the prompt for the first setting. Click the button as many times as required for that setting, or leave the setting alone and simply wait for the next double flash, this time followed by two blinks, indicating that we are now at setting #2, etc.

The FM1 confirms each click with a blink. A press&hold skips to the next setting. A continuous press exits the setup menu completely. Four blinks indicate that the setup is completed.

The available settings differ, depending if the FM1 is currently set to the RAMPING UI or the MODE-SET UI. Note that changing setting 1 flips to the other UI and immediately kicks you into the table for that UI:

RAMPING user interface settings		
Setting	Function	Clicks
1	User interface	1: MODE-SET 2: RAMPING [default]
2	MOON level	1-7 [default 3]
3	Auto step- down	1: Disable 2: Temperature [default]** 3: Timed, requires another 1-6 clicks for 60s, 90s, 2m, 3m, 5m, 7m respectively
4	Strobes	1: Disable [default] 2: Strobe 1 only 3: All strobes

MODE-SET user interface settings				
Setting	Function	Clicks		
1	User interface	1: MODE-SET 2: RAMPING [default]		
2	Mode-set	1-12 [default 4]		
3	Moon mode	1: Disable 2: Enable [default]		
4	Mode order	1: Low to high [default] 2: High to low		
5	Mode memory	1: Disable [default] 2: Enable		
6	MOON level	1-7 [default 3]		
7	Auto step- down	1: Disable 2: Temperature [default]** 3: Timed, requires another 1-6 clicks for 60s, 90s, 2m, 3m, 5m, 7m respectively		
8	Strobes	1: Disable [default] 2: Strobe 1 only 3: All strobes		

** If [temperature] is selected for auto step-down, the FM1 goes to 100% output. Leave the lamp to heat to the desired limit, and then click to set that temperature as the trip point (this can take a minute, use fresh cells for this). Or click within 5 s to keep previous setting.

The mode-sets have been selected to suit a high-power thrower like the FM1:

Mode-			Мо	des [%	of light]		
set no.	1	2	3	4	5	6	7
1	100						
2	7	100					
3	3	36	100				
4	0.7	7	38	100	[def	ault]	
5	0.7	3	7	38	100		
6	0.5	3	9	29	60	100	
7	0.6	1.6	4	7	34	61	100
8	7	21	50				
9	0.7	17	100				
10	0.7	38	100				
11	7	34	100				
12	0.5	6	42	100			

Note that **MOON** mode is enabled by default, adding one extra mode (mode 0) to the above.

Pre-programmed strobes (disabled by default):

Strobe	Туре
1	16 Hz
2	Police strobe (dual frequency)
3	Biking (low light with hi-vis stutter)
4	2 s beacon
5	10 s beacon

The FM1 has no button led, just ignore the following table.

Additional UI settings are available to control the button back-light. While in the battery check mode, press&hold the button. A double flash followed by a single blink is again the prompt for the first setting:

Advanced UI settings (FM1 only after hardware change)				
Setting	Function	Clicks		
1	Button LED on while FM1 OFF	1: Disable 2: Enable [default]		
2	Battery level blinks on button LED only	1: Disable [default] 2: Enable		
3	Button LED	1: Disable 2: Enable [default]		

Specifications

Emitter:	Luminus SST-20 4000K CRI95 Samsung LH351D 5000K CRI90 Cree XP-L HI 1A 6500K CRI70
Flux:	>4980 lumen
Range:	184 meters
Firmware:	Tom E's open-source GPL NarsilM v1.3 adapted by Texas_Ace
User interface:	[1] By default the FM1 is set to use the very intuitive Narsil smooth RAMPING UI. Instant access to a 2.5 A TURBO mode is also provided.
	[2] A more conventional discrete level MODE-SET UI is available as an alternative. Any one of 12 pre- defined mode-sets can be selected.
	[3] MOMENTARY mode is useful for signaling purposes or rapidly/briefly lighting up targets.
Battery:	One 18650 cell. High drain powerful cells are recommended. Cells are not included.
Driver:	Texas Avenger FET Driver
Optic:	quad optic
Lens:	Glass with anti-reflective coating
Body:	Aluminum with Type III hard-coat anodizing
Button:	Electronic tail switch
Ingress rating:	Equivalent to IPX7, do not immerse in liquids
Impact resistance	•
Weight:	Approximately 95g without cells



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Made in China





110mm*30mm*27.6mm

Dimensions: