

Microstim Case II Comments.

- 1 There are only two fixing screws (below the battery compartment). Should there be two at the top to stop the case springing open?
- 2 Will the case plastic age well or will the moulding deform over time due to fixings stresses? Will the case joins start to come apart if only two fixing screws are used?
- 3 The pot is stood well off the PCB. If it is not glued in place, it will be able to move. This will cause the three wire spills to snap off. How is the pot going to be secured so that this will not happen?
- 4 Are the stand-offs for mounting the PCB a bit thin? Will their screw threads strip if the screws are repeatedly inserted/removed? Will the pillars break off from the rest of the case if stressed?
- 5 How is the PCB assembled into/removed from the unit? Will the pot and LED be attached to the PCB when it is inserted and the switches soldered afterwards? Can it be assembled? The PCB needs to be single sided – a THP board will be difficult to desolder for board removal.
- 6 The battery compartment floor needs to be solid so that a label can be stuck on – serial number and battery type.
- 7 How will the knob be attached to the pot? Will it be screwed as at the moment? Will the screw show?
- 8 The LED should not be capable of being pushed backwards with a pen.
- 9 Do the two battery contacts attach to the PCB with wires?
- 10 The two battery contacts will have to project a long way forward to ensure contact is made with the battery if the battery is hard up against the other end of the compartment.
- 11 The moulding that stops the battery from being inserted the wrong way round needs to be made more substantial so that it cannot be broken off.
- 12 Will it be possible for the battery contacts to touch the two case contacts from the top if someone attempts to put the battery in the wrong way round?
- 13 If there is a reliable mechanical way of preventing the battery from being inserted the wrong way round, do we need diode D1 on the PCB? Removing this would improve battery life and save cost.
- 14 How do you remove the switches for replacement?

- 15 Will the output lead connector be mechanically secured to the case independent of the PCB so that it cannot move relative to the PCB - if it has solder spill connections to the PCB, not wire tail PCB connections? Movement could cause solder spill connections to fracture.
- 16 Will the unit stand a 1-metre drop test onto a concrete floor?
- 17 Is the camera mount moulding substantial enough? Will it shear from the rest of the case if the case is bent away from a fixed camera mount?

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