

General Notes

Miscellaneous...

SQ11 Info

Useful info on sq11 mini cam...

[sq11_info.txt](#)

Operating Instructions SQ11

Charging

Attention! Before using for the first time, fully charge the mini camera battery!

This mini video camera has a built-in lithium-ion battery. You can perform

charging in one of the following ways:

1. Connect the mini video camera to the USB port of your PC, stop recording first.
2. Connect the mini camera to a charger from a 220V network or a portable 5V charger. In this case, you can continue to use the mini-camera in the charging process. In the charging process, the blue and red LEDs will light constantly.

After the mini camera battery is fully charged, the blue LED will light constantly and the red LED will turn off.

- If the built-in battery is empty or there is not enough space on the memory card to continue, the blue and red LEDs on the mini camcorder will blink for 5 seconds simultaneously, after which the mini camcorder will save the recorded video and automatically turn off.
- If the memory card is not installed, the blue and red LEDs of the Mini Recorder will blink simultaneously for 5 seconds, after which the Mini Camera will automatically turn off.
- If the camcorder is in the standby mode and does not take any action

on it,
the camcorder automatically turns off after 1 minute to save the charge of
the built-in battery.

Solar panel stuff

[solar_power_system_calc.txt](#)

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- inverter?
- battery?
- solar panel?

1) load calculation
- assume 4x25w led light, 2x80w fan, 1x40w tube light, 1x50w tv
- total power = 100w + 160w + 40w + 50w = 350w

2) inverter selection
- load = 350w (consider: 500w)
- recommended: 800w-1000w

3) battery selection
- assume 12v dc battery
- for 350w ac load,  $i(\text{dc}) = 350\text{w}/12\text{v} = \sim 30\text{a}$ 
- assume battery operation of 8h
- battery capacity =  $30\text{a} \times 8\text{h} = 240\text{ah}$ 
# 250ah battery available!

4) battery charging current calculation
- assume 250ah
- charging current =  $\sim 10\%$  current rating (Ah)
- charging current = 25A

5) solar panel selection
- solar panel current = charging current + load current =  $25 + 30 = 55\text{A}$ 
- solar panel power =  $12\text{v} \times 55\text{A} = 660\text{W}$ 
- solar panel options: 125w / 180w / 375w / 440w
- solar panel count =  $660\text{W} / 180\text{W} = \sim 4!$ 
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