

Wired remote control of the Sony A6300 camera.

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Refer to the Sony A6300 Camera Interface Board schematic

1. Set a DC power supply to 8.0Vdc, current limit of 1amp. (The input voltage range of the Sony A6300 is 7.2Vdc to 8.4Vdc). Set output to OFF.
2. Plug the dummy battery into the A6300.
3. Connect the red & black wires between the dummy battery and the DC power supply.
4. Plug the test cable into the A6300 in the Multi connector.
5. At the output end of the test cable there are 5 wires:

Orange: Power On and Off

Violet: Shutter Focus

White: Shutter Release

Grey: Video Record and Stop

Black: Camera Ground (Return)

6. Connect the black wire to a PLC return
7. Connect the orange, violet, white, and grey wires to low voltage DC, open collector outputs.
8. Turn the On/Off knob on the A6300 to ON.
9. Turn on the DC power supply.
10. The camera should power up.

There are five functions available:

1. Turn camera on
2. Turn camera off
3. Begin video recording
4. Stop video recording
5. Take a still image

All functions are initiated by pulling the appropriate line low for a specific amount of time. I have not accurately measured the exact time needed for each, but I have made the following observations:

1. To power the camera off, pull Orange low for very short time, maybe 100msec.
2. To power the camera on, pull Orange low for 500-1000msec.
3. To begin video recording, pull Grey low for 500-1000msec.
4. To stop video recording, pull Grey low for ~100msec.
5. Taking still images is a two-step process:
 - a. Pull Violet low for 500-msec.
 - b. While Violet is still low, pull White low for ~100msec.