



NB: Lab shorted R22 and removed R25.
This ruins the Manual mode range.

Rev:D LINEAR AND LOG VARIANTS

LOG CONTROL:
The control input corresponds logarithmically to optical power.
Use UCA821IDGS RF amp and the log PD amplifier. The PD BNC is a monitor.
Use R22=10K, R32=out, R19 = 20.0K.

LINEAR CONTROL:
The control input corresponds linearly with optical power.
Use UCA821IDGS RF amp and do not use the LOG PD amplifier. Use an external linear PD amp (such as Thorlab's PDA36A) connected to the PD BNC.
Use R22=10K, R32=10K, R19 = 3.32K.

E	A.Stummer	2017 Feb	Removed UCO daughter board, now built in.
D1	A.Stummer	2016 Apr	Changed R19, R5, C6.
D	A.Stummer	2014 Nov	Add lin ver, renum PD PCB, add ext AM, fixed Q5 B-E.
C	A.Stummer	2013 Mar	Many minor mods.
B1	A.Stummer	2013 Jan	Many assorted mods.
A2	A.Stummer	2012 Sept	As assembled and tested.
A1	A.Stummer	2012 Sept	Initial layout.

Ltr	Date	By	REVISION DESCRIPTION
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			REV: E

NOTES

- 1) Be sure to use the nylon spacers on the UCO A06 cases.
- 2) Do not wash the audio device, front panel switch or pot.
- 3) Log version only, wire for connector on main unit: 22cm of 24AWG solid, PD box 5cm stranded.
- 4) The rotary switch is shipped for 2 position. Turn knob CW. Remove two nuts and back cover. The metal plate will be touching a stop pin. Move that pin two stops. Close cover. See web page for details.
- 5) There are intentionally two types of opamps in SOT23-5 with similar numbers, AD8605 and AD8065. Do not confuse them.
- 6) Sample UCO: MiniCircuits POS-150, 75-150MHz
- 7) Measured with no UCO or loads, manual, 12V in: Lin 200mA, log 185mA.