

# Improved Video Monitor Relay

(adapted from Electronic Sensor Circuits & Projects by Forest Mims III)

Qty	Description	Part #	Supplier	Price
1	9 volt DC power supply		any	\$4.00 - \$6.00
1	1K resistor 1/4 watt	1/4 watt 1K	All	\$0.50/ 10
2	100K resistor 1/4 watt	1/4 watt 100K	All	\$0.50/ 10
1	Operational Amplifier I.C.	LM-358	All	\$0.40
1	Transistor 2N2222A	PN2222A	All	\$0.80/5
2	CDS cells (<1K light, >MW dark)*	G151777	ElecGoldmine	\$1.00
1	100K potentiometer (large panel mount)**	NLP-100K	All	\$1.00/2
	or			
1	100K potentiometer (small board mount)**	TR-100K	All	\$1.00/2
	DC Relay DPDT - can have its own power supply		any	\$1.00 - \$2.00

Parts from All Electronics ([www.allelectronics.com](http://www.allelectronics.com)) & Electronic Goldmine ([goldmine-elec.com](http://goldmine-elec.com))

\* Buy these in two's since you need a matched pair. All Electronics no longer stocks CdS cells.

\*\* Buy the larger potentiometers if you intend to mount them on a panel -- easier to do fine adjustments.  
Buy the small ones to mount onto a circuit board.

