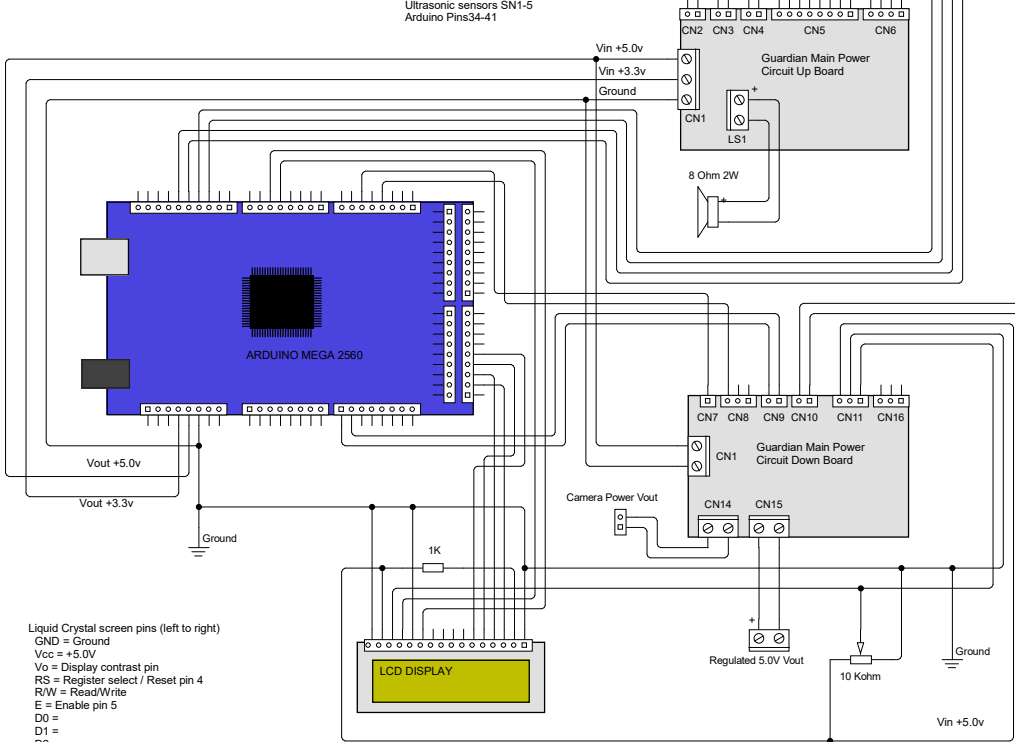


Ultrasonic Sensors SN1-SN5:  
 SN1 Trig pin 15, SN1 Echo pin 14  
 SN2 Trig pin 40, SN2 Echo pin 41  
 SN3 Trig pin 38, SN3 Echo pin 39  
 SN4 Trig pin 35, SN4 Echo pin 34  
 SN5 Trig pin 36, SN5 Echo pin 37

WTV020-SD-16P sound module CN6 pins  
 Reset pin 12  
 Clock Pin 13  
 Busy Pin 10  
 Data Pin 11



Guardian Main Power Circuit Up Board  
 CN1 = Arduino power in  
 CN2 = Led Bar ja Led power out (only Gnd is used)  
 CN3 = Ultrasonic Front Down Sensor power out  
 CN4 = Efcopm power out  
 CN5 = Ultrasonic Sensor power out 2-4  
 CN6 = WTV020-SD module pins Arduino  
 LS1 = Speaker out

2 x Battery Vout

Liquid Crystal screen pins (left to right)  
 GND = Ground  
 Vcc = +5.0V  
 Vo = Display contrast pin  
 RS = Register select / Reset pin 4  
 RW = Read/Write  
 E = Enable pin 5  
 D0 =  
 D1 =  
 D2 =  
 D3 =  
 D4 = Data4 pin 47  
 D5 = Data5 pin 49  
 D6 = Data6 pin 51  
 D7 = Data7 pin 53  
 A = Anode  
 K = Katode  
 LCD pwr pin 18 (Optional use)

Guardian Main Power Circuit Down Board  
 CN1 = Arduino power in  
 CN7 = Camera Arduino pin on/off; pin16  
 CN8 = LCD Display Arduino power pin on/off (optional use); pin 18  
 CN9 = DC Voltmeter Vout pins: LiPo 7.4v battery pin A8 (62), MIMh 9.6v battery pin A9 (63)  
 CN10 = DC Voltmeter Vin pins (Lipo and MIMh)  
 CN11 = LCD Display pins  
 CN14 = Camera power out 5V pins  
 CN15 = Camera MIMh regulated 5V power in  
 CN16 = LDR Potentiometer pins (connect to the Potentiometer)