Case:

1/8” Mirror – 1 sq ft

1/8” Glass – 1 sq ft

“Transparent” Mirror film – Gila privacy control or equiv.

6” PVC Pipe (about 3” required) – 24” length Lowes

½” Plywood – birch works nicely 2’ x 1’ is sufficient (actually 15/32”)

1/8” Masonite or equiv. – 2 sq ft

¾” x .064 brass – K&S Precision Metals 12” long, 3 pieces

2x4 12” or equivalent for gussets

#5 round phillips head brass wood screws, 5/8” or ¾” long. (24 required) – Amazon.com 100 pack

#6/#8 round head wood screws (to secure back to assembly)

black spray paint

wood stain

polyurethane

clear lacquer spray for brass

glue

sand paper

polishing compound (to remove any scratches from the brass)

spray glue (optional)

Electronics:

Arduino 101 – SparkFun, adafruit, Amazon.com

Analog Light Sensor – GA1A1S202WP - adafruit 1384

24 channel 12-bit PWM LED Driver – adafruit 1429 (2 required)

9 VDC 1000ma reg. switching power adaptor – adafruit 63, Amazon.com

Tactile Switch Buttons (6mm) 10 pack – adafruit 1490 (only 4 switches required)

26K 1/8 watt resistors (4)

PCF8523 Real Time Clock – adafruit 3295

CR1220 battery (for real time clock)

Perf board 2-3/4 x 5/8

¼” standoff (2) and associated screws

Small flat head bolt and nut to hold light sensor to front panel

10mm RGB common anode LED (12 required) – Amazon.com 50 pack

8-conductor flat cable

Heat shrink tubing or electrical tape

Rosin core solder

Optional cable connectors:

Dupont Connector Crimp Pin and Housing Kit – UpgradeIndustries.com

SN-01BM Dupont and Molex Pin Crimper – UpgradeIndustries.com

Break-away 0.1" 36-pin strip right-angle male header (10 pack) - adafruit 1540

Break-away 0.1" 2x36-pin strip right-angle male header (5 pack) – adafruit 1541

Tools:

Saw(s)

Screw driver(s)

Drill

Hammer

Center punch

Ruler/straight edge

Glass cutter

Soldering iron