Case:

Mirror – 1 sq ft

Glass – 1 sq ft

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

Note that the glass and mirror film could be replaced with “half-silvered” mirror glass, or one-way glass. Harder to find, but easier to use.

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

½” Plywood – birch works nicely 2’ x 1’ is sufficient

1/8” Masonite or equiv. – 2 sq ft

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

2x4 12” for gussets

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

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

black spray paint

wood stain

polyurethane

glue

sand paper

polishing compound

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

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

Misc hookup wire

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