SPLASH! Water Droplet Controller V2

You will need these tools:

Screwdrivers
Jigsaw
Cordless drill
Soldering iron with a fine tip
Solder (preferably lead-free)
Cutting pliers
Utility knife
Hacksaw
Glue clamps
Wood drills
Sandpaper
Wood glue
Pattex universal adhesive
Double-sided tape
PC

You will need these parts for the the stand and the valve holder:

1 water valve (Cognisys 2P025)
1 Mariotte siphon (Cognisys)
. MDF board in thicknesses of 3,6 and 12 mm. Dimensions: see description.
4 m. 18x18 mm. pinewood slat.
2 M4x25mm. bolts for the valve connection.
6 Chipboard screws 15 mm. for the stand base connection.
2 Chipboard screws 40 mm. for the siphon fixation.
2 M6x40 mm. bolts and nuts for the valve holder.
2 fixation knobs for the valve holder.
. Background paper in various colors.
1 water tray

You will need these parts for the the controller:

1 Black plastic box 120x120x60 mm.
. glossy photo paper to print the GUIs.
. adhesive plastic to cover the GUIs.
. flexible mounting wire in various colors AWG28.
. small tiewraps.
1 m. heat shrink tubing 1mm.
1 Arduino UNO R3 (original or a clone).
1 LCD LCM1602 IIC display.
1 female built-in power plug for 5.5x2.1 mm. round plug.
1 power supply 15 Volt DC 1 amp. with 5.5x2.1 mm. round plug.
3 RCA tulip female connectors (red, white and blue).
4 mini push buttons color blue.
1 mini push buttons color red.
1 toggle switch.

3 built-in LED holders for 5 mm. leds.
3 LEDs 5 mm. (red, blue and white).
1 row of connection pins for the Arduino UNO.
1 PCB 5x7 cm. with 24x18 holes at 0.1 inch.
. M3 bolts and nuts incl. 5 mm. Standoffs to mount the Arduino, the PCB and the display.
1 MDF mounting plate 6mm. 110x110 mm.
9 resistors 2.2 kOhm 1/8 Watt.
3 resistors 1 kOhm 1/8 Watt.
1 resistor 10 kOhm 1/8 Watt.
1 resistor 22 kOhm 1/8 Watt.
1 resistor 4k7 Ohm 1/8 Watt.
2 capacitors 10 uF.
1 capacitor 100 nF.
1 voltage stabilizer 7812.
1 diode 1N4001.
3 optoisolators 4N37.
3 6-pin IC sockets.
1 Mosfet IRF520.

You will need this to make the pictures:

1 DSLR camera with bulb mode.
1 Cactus V5 set for remote flash.
1 slave flash (optional).
. Connection cable for the flash remote.
. Connection cable for the valve.
. Connection cable for the camera shutter.