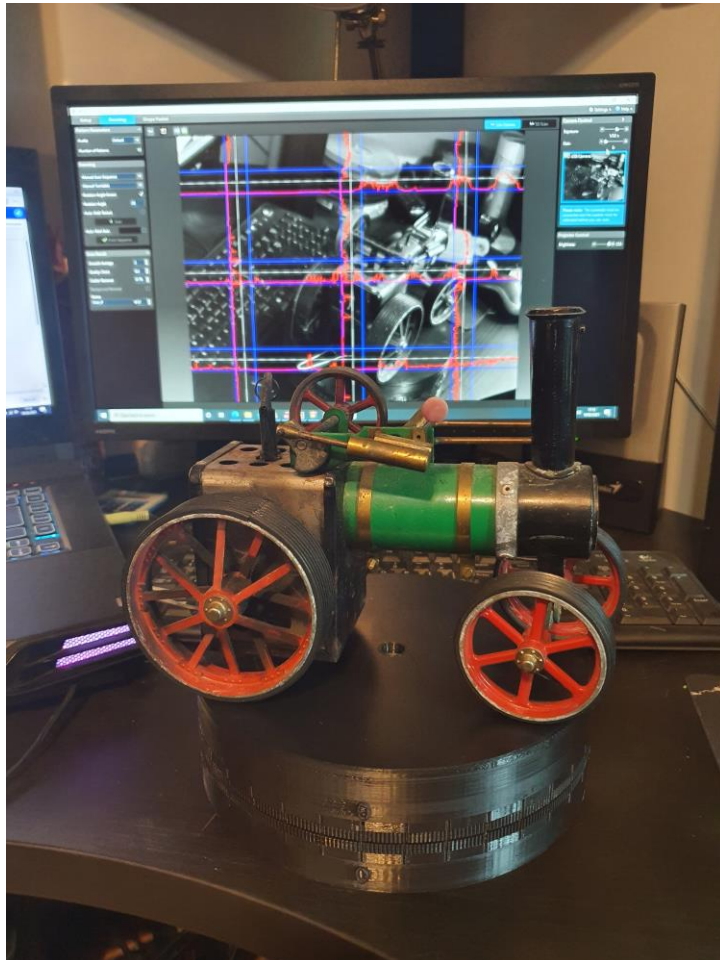


# HP 3D SCAN TURNTABLE INSTRUCTIONS



## Parts list:

### **Bearings**

8x22x7 3 off [sourcing map 608ZZ Deep Groove Ball Bearing Double Shield 8mm x 22mm x 7mm High Carbon Steel Z1 Bearings 4pcs: Amazon.co.uk: Business, Industry & Science](#)

4x12x4 8off [sourcing map 604ZZ Deep Groove Ball Bearing Double Shield 604-2Z 80014, 4mm x 12mm x 4mm High Carbon Steel Z1 Bearings \(Pack of 8\): Amazon.co.uk: Business, Industry & Science](#)

### **Motor and Driver**

Haljia 5v 4phase stepper motor and driver 1off [Fliyeong 1 Set of 5V Stepper Motor and ULN2003 Driver Board 28BYJ-48 4-Phase Stepper Motor for Arduino: Amazon.co.uk: DIY & Tools](#)

## Arduino Uno

[ELEGOO UNO R3 Board ATmega328P ATMEGA16U2 with USB Cable Compatible with Arduino IDE Projects RoHS Compliant: Amazon.co.uk: Computers & Accessories](#)

## Bolts and fixings

M8 cap head 55mm [\(10\) M8-1.25 x 55mm \(PT\) - Socket Head Cap Screws, Stainless Steel Grade A2 \(18-8\), DIN 912 / ISO 4762, Hex \(Allen\) Key Drive - MonsterBolts \(10, M8 x 55mm\): Amazon.co.uk: Business, Industry & Science](#)

M8 lock nut [M8 \(8mm\) Nyloc Hex Nut \(Type-P\) - Stainless Steel \(A2\) \(Pack of 20\): Amazon.co.uk: DIY & Tools](#)

M4 cap head 12mm [M4 \(4mm x 12mm\) Hex Socket Cap Screw \(Bolt\) \(Low Head\) - Stainless Steel \(A2\) \(Pack of 20\): Amazon.co.uk: DIY & Tools](#)

M4 nuts [M4 \(4mm\) Hex Nut - Steel \(Pack of 100\): Amazon.co.uk: DIY & Tools](#)

Small screws [MEIYYJ PA Phillips Micro Laptop Repair Screws M2 M2.3 M2.6 M3 Computer PC Pan Self-Tapping Electronic Mini Wood Screws, Pack of 500: Amazon.co.uk: DIY & Tools](#)

## 3d Printer Settings

**All parts to be printed in Black PLA scanner doesn't pick up black**

**Turntable base:**

**Resalution .2**

**Temp 195**

**Speed 50mm/s**

**Bed 60**

**Bottem layers 3**

**Top layers 6**

**Infill 25%**

**Z support .3**

**Wall count 3**

**Support Everywhere**

**Turntable top:**

**Resalution .2**

**Speed 50mm/s**

**Bed 60**

**Bottem layers 6**

**Top layers 3**

**Infill 25%**

**Wall count 3**

**Support NONE**

**Ardunio Upload:**

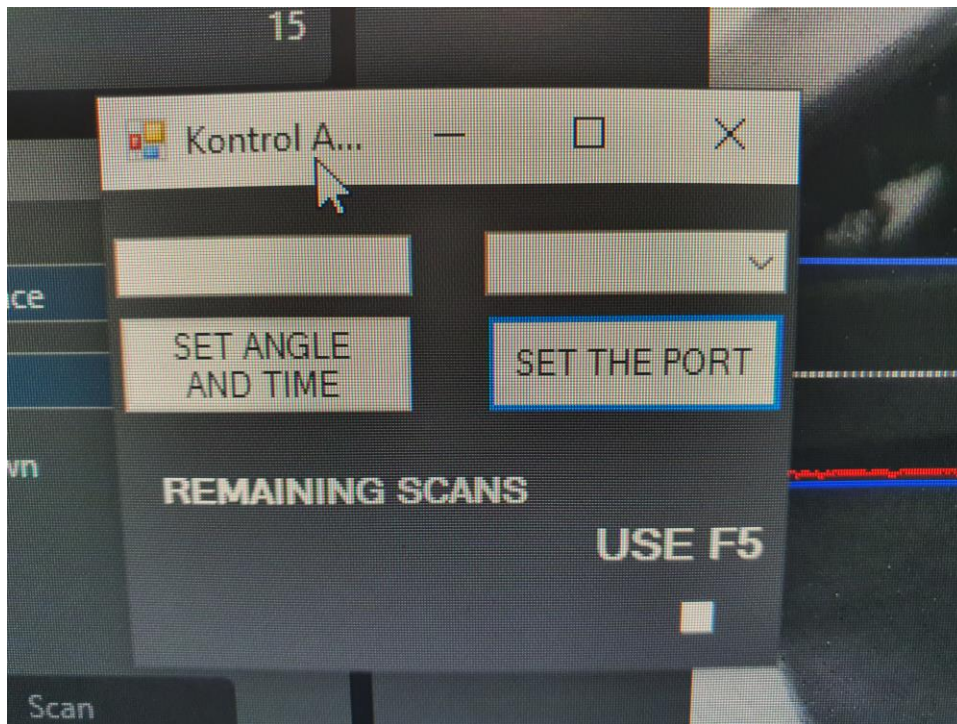
Upload controller.ino to arduino using Arduino IDE from turntable.zip

Help here if you have never done this before: [\(208\) Upload your first code to arduino uno - YouTube](#)



### **Install Turntable Control Software:**

Find hpturtable.exe in zip click and you should have this on your screen (may look different still under development)



## How To Use:

Setup HP5 (or older david versions) ready to scan calibration ect.

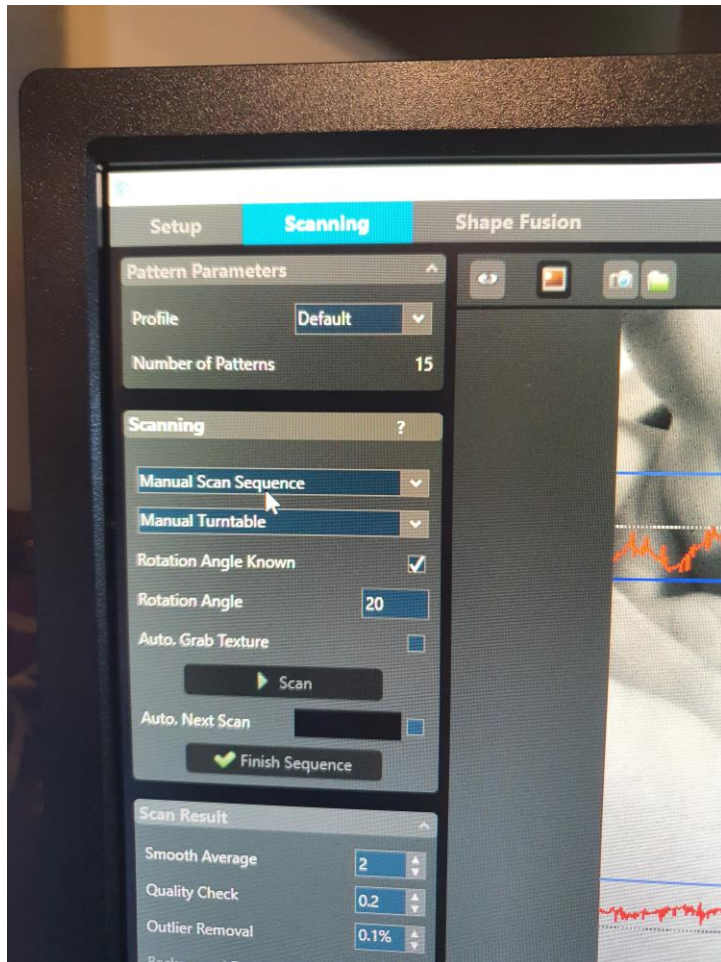
On scanning page set for Manual Scan Sequence

Manual Turntable

Tick Rotation Angle Known

Rotation Angle (insert your desired angle)





Scan and time scan then add 3 seconds (you will need this to input into control software)

Plug in Turntable

Open hpturtable.exe

Set port to correct com port (check device manager if unsure)

Click use f5 (soon to be Auto next scan)

Set Time and Angle ( this can be confusing) you can set milliseconds but my example will be 30 seconds 15 degree eg. 30000015 30 is seconds followed by 000 for milliseconds then 015 is degrees. second eg 45000030 is 45 seconds 30 degrees.

Click Set angle and time button scan will start

HAPPY SCANNING

