Acrylic Geeetech I3 Pro 3D Printer
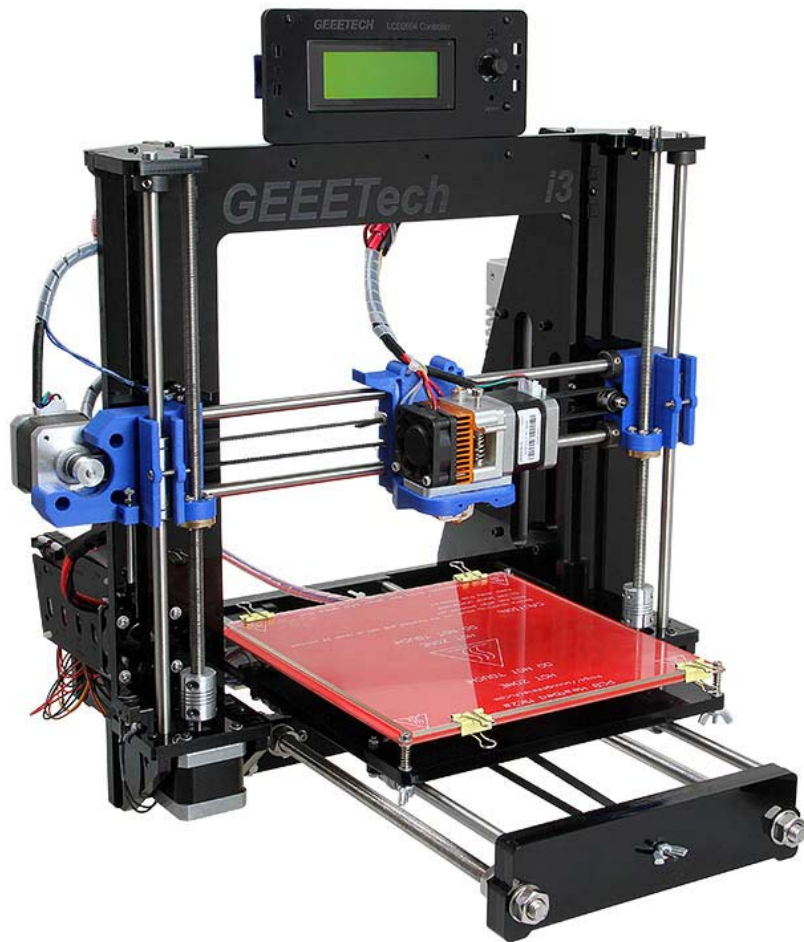
Copyright Declaration

Technical Support

If you are interested in the technology of 3 D printing, flight control and U-home, welcome to Geeetech, we have series of made-up products, main boards, modules and a variety of peripherals for you. Or if you are looking for relevant information or technical support, please login our forum where you can find anything you want about open source. To know more about our new products, please visit www.geeetech.com, we will serve you wholeheartedly.

SAFTY INSTRUCTIONS

Building the printer will require a certain amount of physical dexterity, common sense and a thorough understanding of what you are doing. We have provided this manual to help you assemble it easily.

However ultimately we cannot be responsible for your health and safety whilst building or operating the printer, with that in mind be sure you are confident with what you are doing prior to commencing with building or buying. Read the entire manual to enable you to make an informed decision.

Building and operating involves electricity, so all necessary precautions should be taken and adhered to, the printer runs on 12V supplied by a certified power supply, so you shouldn't ever have to get involved with anything over 12V but bear in mind there can still be high currents involved and even at 12V they shouldn't be taken lightly.

High temperatures are involved with 3D Printing, the Extrusion nozzle of the hot end can run about 230°C, the heated bed runs 110°C and the molten plastic extruded will initially be at around 200°C, so special care and attention should be made when handling these parts of the printer during operation.

We wouldn't recommend leaving your printer running unattended, or at least until you are confident to do so. We cannot be held responsible for any loss, damage, threat, hurt or other negligent result from either building or using the printer.

INTRODUCTION:

This Acrylic I3 Pro 3D printer is designed and manufactured by Shenzhen Getech Co., Ltd based on the Reprap Prusa I3, Geeetech I3 features simple assembly, easy debugging and more stable performance. The acrylic structure makes the printer much easier to operate.

PACKAGE LIST:

This list includes all the parts required to assemble your Acrylic Frame Geeetech I3 3D Printer. After you received your package, please check if all the parts listed are included. Also make sure all the components are in good condition and not damaged during shipping. If anything is missing please contact with our customer service straight away, provide us the NO. , Name, and Qty.

No	Name	Specifications	Qty	Pic
1	Smooth Rod	D8*L322mm	2	
2	Smooth Rod	D8*L370mm	2	
3	Smooth Rod	D8*L410mm	2	
4	Threaded Rod	M8*L300mm Z-axis screw	2	
5	Threaded Rod	M10*L450mm Y-axis	2	
6	M2.5 Washers	M2.5	5	
7	M3 Washers	M3	115	
8	M4 Washers	M4	5	
9	M10 Washers	M10	12	

10	Nut	M2.5	2	
11	Nut	M3	35	
11A	Nut	M4	4	
12	Nut	M10	12	
13	Lock nut	Hex Socket nuts M3	5	
14	Lock nut	Hex Socket nuts M4	5	
15	Wing nut	M3	6	
16	Square nut	M3	30	
17	Z-axis nut	M8（tin-bronze）	2	
18	Spring washer	M10	6	
19	Screw locking ring	M8	4	
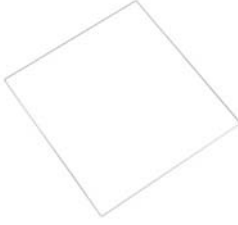
20	Bolt	Jimi headless M3x6mm	4	
21	Screw	M2.5x12 mm	4	
22	Screw	M2.5x16 mm	4	
23	Screw	M3x8mm	4	
24	Screw	M3x10mm	10	
25	Screw	M3x12mm	15	
26	Screw	M3x16mm	40	
27	Screw	M3x20mm	30	
28	Screw	M3x30mm	10	
29	Screw	M3x35mm	4	
30	Screw	M3x40mm	4	
31	Screw	M3x50mm	1	
32	Screw	M4x8mm	4	
33	Screw	M4x12mm	5	
34	Screw	M4x16mm	4	
35	Screw	M4x25mm	2	
36	Bolts	countersunk head bolt M3x16mm	2	
37	Spring	inner diameter 4mm,wire diameter 0.5mm, length 30mm	4	
38	624ZZ Ball bearing	624zz	4	
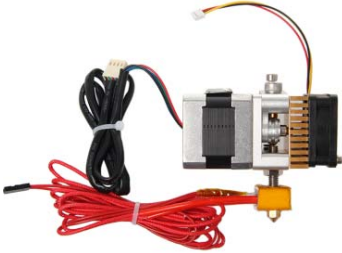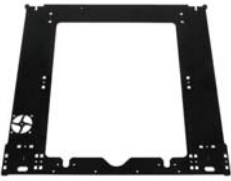
39	LM8UU Linear Bearings	LM8UU	4	
40	LM8UU Linear Bearings	LM8UU(pro)	4	
41	Timing Belts	L1=775(Y axis)	1	
42	Timing Belts	L1=860mm(X axis)	1	
43	20-tooth MXL Aluminum Pulleys	20 tooth d5mm	2	
44	End stop	X-axis two blue lines	1	
45	End stop	Y-axis two red lines	1	
46	End stop	Z-axis two black lines	1	
47	Spacer	3mm diameter 5mm length	4	

48	Spacer	3mm diameter 28mm length (for the cover board of the control board)	4	
49	USB Cord	A-B	1	
50	Thermometry wire	50cm 2pin with DuPont socket	1	
51	Heating Wire	50cm	2	
52	3D Power Cable	3*0.75 Square mm Switch Line	1	
53	Dovetail clamp		4	
54	Nylon ties		30	
55	Heat sink	9*10*5mm	4	

56	Sticker		1	
57	Coil	3M	1	
58	ejector pin		1	
59	Grater		1	
60	PVC-U plastic pipe		1	
61	PVC-U plastic pipe elbow		2	
62	Power Cable	Power cable and plug （Eu standard）	1	

63	DuPont cable	2Pin Male-2PinFemale	1	
64	DuPont cable	4Pin Male-4PinFemale 300mm	1	
65	MK8 assemble board	aluminium plate	1	
66	Bearing holder	metal plate	2	
67	Belt mount	aluminium plate	1	
68	Power cable	Connect board to PSU	1	
69	Couplings	5-8mm	2	
70	Fan	40x40x15mm 12V	1	

71	MK2A	WITH 100k NTC Thermistor	1	
72	Borosilicate glass	216mmx216mmx 3mm	1	
73	Tool kit	Universal screwdriver	1	
74	Power supply	Input: 115V/1.5A 230V/0.75A Output：DC12V/0-15A	1	
75	Stepper motor	42BYGHW8111 1.2A(U)	4	
76	Motor driver board	A4988/Drv8825 (optional)	4	

77	Control board	Sanguinololu (Standard) Mega2560+ Ramps1.4 /Printrboard (Optional)	1	
78	Starter ABS/PLA filament	About 3 meters	1	
79	Extruder	MK8 extruder Nozzle size 0.3mm (Standard) 0.35mm,0.4mm,0.5mm (Optional), for filament size 1.75mm(Standard），3mm (Optional)	1	
80	LCD 2004	LCD2004 (knob cap is not included)	1	

	Acrylic kits(8mm)			
A1	XZ frame	PI3A-M01	1	

A2	Left side frame	PI3A-M02	1	
A3	Right side frame	PI3A-M03	1	
A4	Z motor fixed plate	PI3A-M04	1	
A5	Z motor fixed plate	PI3A-M05	1	
A6	Z motor support plate	PI3A-M06	3	
A7	Z motor support plate	PI3A-M07	1	

A8	Z top mount	PI3A-M08	2	
A9	Front support plate A of screw and smooth rod	PI3A-M09	1	
A10	Front support plate B of screw and smooth rod	PI3A-M10	1	
A11	Rear Support plate A of screw and smooth rod	PI3A-M011	1	
A12	Rear support plate B of screw and smooth rod	PI3A-M12	1	
A13	Y motor fixed plate	PI3A-M13	1	

A14	Y plate form connecting plate	PI3A-M14	2	
A15	Y platform support plate	PI3A-M15	1	
A16	Y bearing limit block	PI3A-M16	4	
A17	Filament shelf bottom plate	160*160*5	1	
A18	Filament shelf side plate	160*170*5	2	
A19	Acrylic fender	Main board cover （only for sanguinololu）	1	
A20	Acrylic washer	Fix the LCD panel	4	

A21	LCD2004 frame		1	
A22	LCD2004 frame		2	
A23	LCD2004 frame holder		2	
Plastic Parts				
P1	X-axis left end		1	
P2	X-axis right end		1	

P3	Print bracket	X belt and bearings	1	
P4	Extruder bracket		1	

*The color of the screws is different according to the color of your printer:

Black screws are for black ones, and normal ones are for transparent printers.

*The acrylic plate for the spool holder and the LCD frame are 5mm.

For detailed build instructions, please visit this page:

http://www.geeetech.com/wiki/index.php/Acrylic_Prusa_I3_build_instruction(8mm)

GENERAL CARE AND MAINTENANCE

As with all the electronic equipment, it is important to keep your printer clean to extend its life. Regularly remove dust and debris with a microfiber cloth or compressed air. Dredge the tube and the nozzle after use every time to ensure fluent performance.

■ Don't leave the heaters on the printer turned on for a long periods of time when not used.

■ Don't leave your printer in shady and moist places, which may exacerbate the problems associated with erosion.

■ The three axes of the GEEETECH I3 are lubricated with grease for smooth operation and can last for a long time. Grease may need to be re-applied to your printer to maintain smooth performance.

■ Avoid positioning your power supply unit in such a way that the brick is hanging, pulling, or putting any unnecessary stress in the electrical wires and components.

SUPPROT

Thanks for choosing Geeetech, we strive to provide a satisfied and pleasant shopping experience for you, but we do understand there may be some questions you may encounter in using our product. If so, you can contact us directly or post on our forum, our technique staff will help you resolve it. For more detailed information, you can also visit Geeetech wiki from our home page. (http://www.geeetech.com)

GEEETECH

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