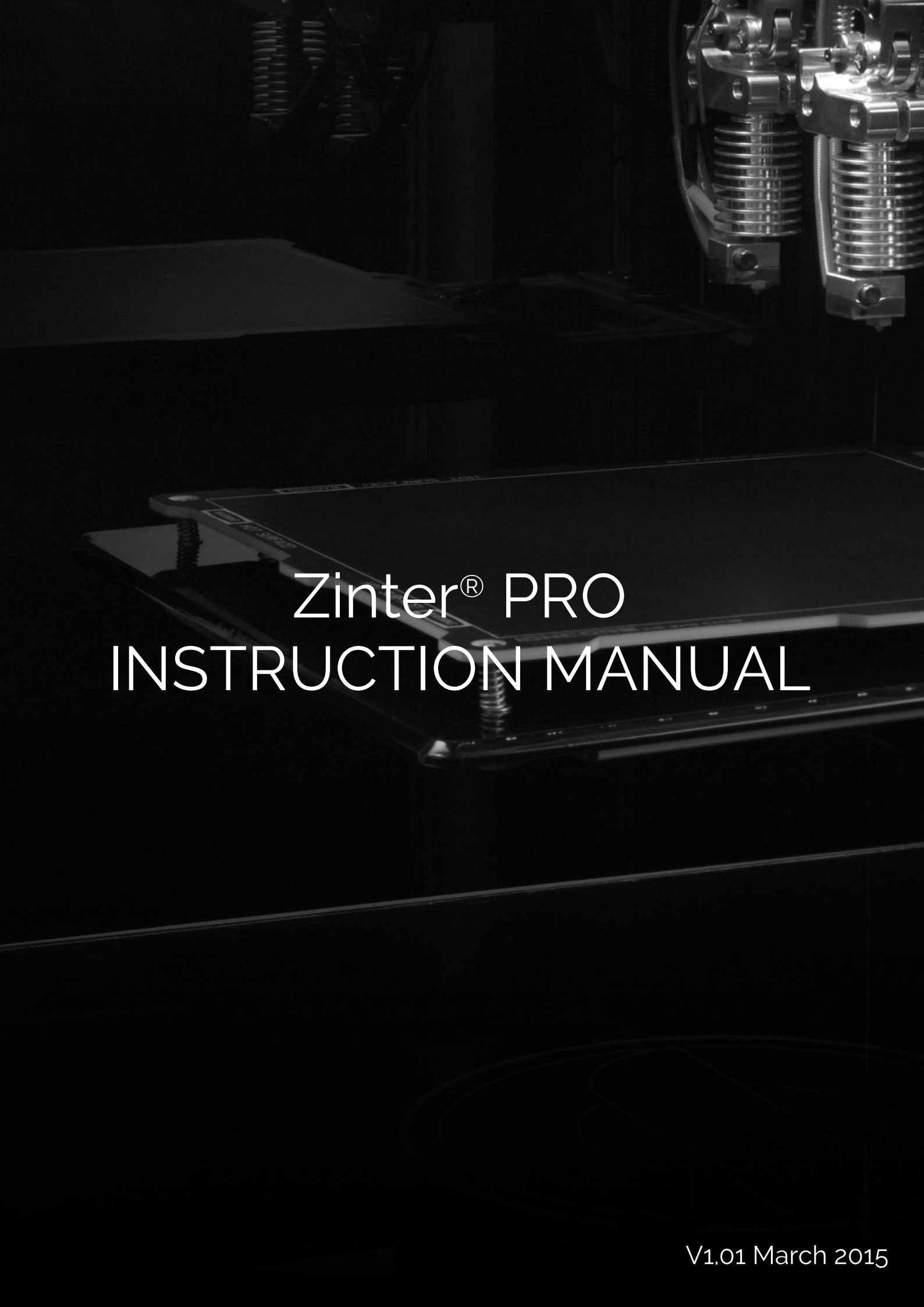
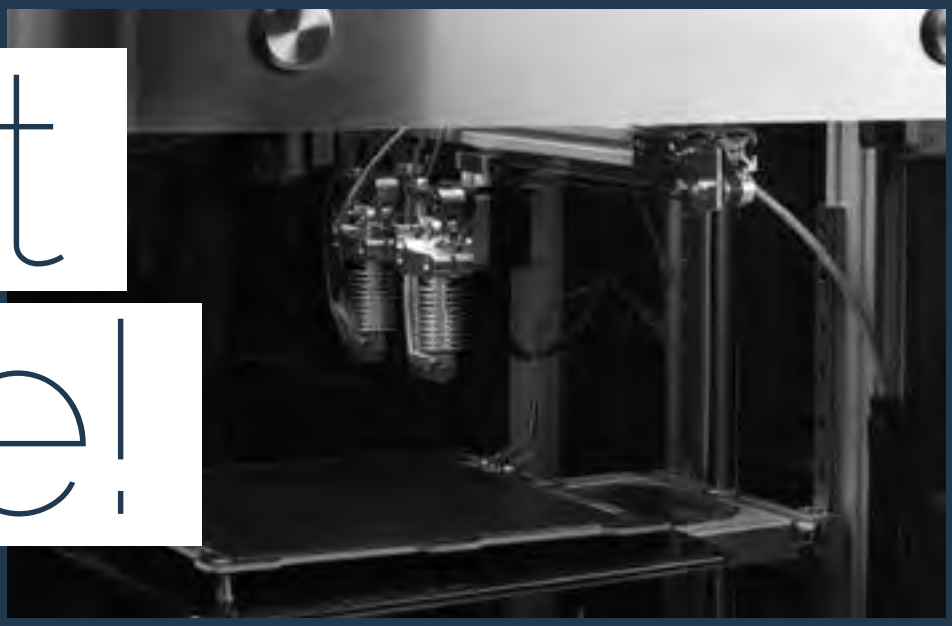


Zinter® PRO
INSTRUCTION MANUAL

V1.01 March 2015

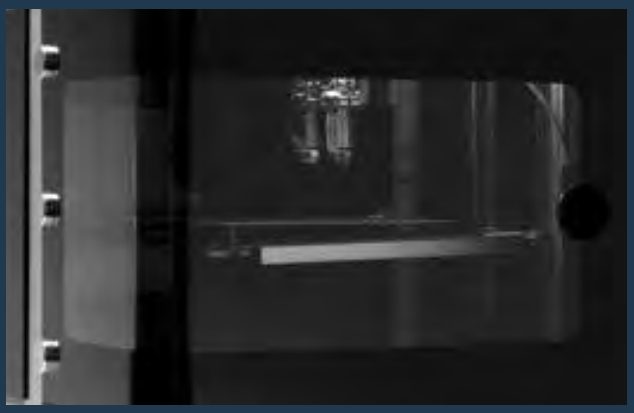
Start Here!



Thank you for choosing the Zinter® Pro, and welcome to the Zinter® family!

This quick start guide is intended to get you up and running with your new Zinter® Pro as quickly as possible.

Top: Zinter® PRO Dual Extruders
Below: Zinter® PRO L Shape Door



Contents:

introduction

Your heated bed and Extruders run at very hot temperatures. Please read and understand this guide before printing to avoid serious burns or injury.

If for any reason you must ship your Zinter® Pro carefully repackage the printer in its original packaging to avoid any damage during transit. It is recommended that you save and use the original packaging.

Legal Notice

This manual is a 'living document' The information in this manual is subject to change without notice. The latest version can be downloaded from www.zinter.com

ION CORE LTD. MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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IonCore Ltd reserves the right to amend its product specifications, firmware and associated guides, software and manuals without notice. Images used are for guidance only and may differ from your machine.

IonCore Limited offers a 1 year warranty, refer to the warranty terms at www.ioncoretechnology.com

E&OE

Trademarks

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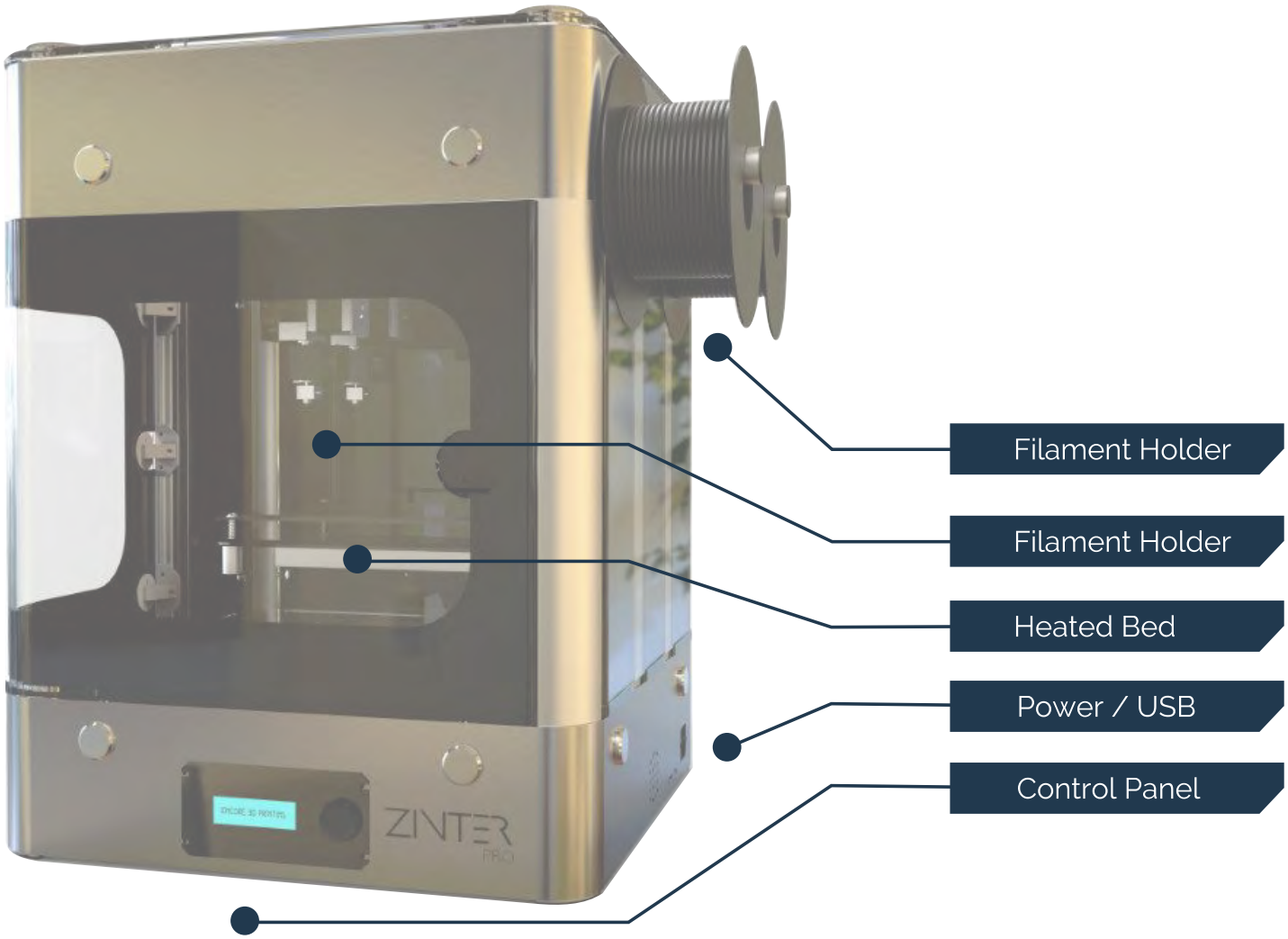
Your Zinter Pro



user safety

To avoid personal injury, or model deformation, do not touch the model, nozzle, or the heated bed by hand, or any other part of the body, while the printer is working or immediately after it has finished printing.

Protective glasses should always be worn when removing support material, especially PLA.

You may notice a slight smell from ABS when it is being extruded this is normal. You should operate your Zinter Pro in a well-ventilated but draught free room. Draughts can affect warping of ABS prints.

Always have adult supervision when children are present. Please keep all small printed parts away from young children; these can easily present choking hazards! There are several safety issues, small tools, sharp tools and HOT objects and most parts used in connection with 3D Printing. Tie back long hair and loose clothing. Keep fingers away from moving parts.

Tools and parts should be stored at a suitable height away from small children. Tools should be used in conjunction with safety gloves and glasses.

The printer must not be exposed to water or rain, or damage may occur.

Do not shut down the Zinter Pro or pull out the USB cable when loading a digital model, or the model data may be lost.

The printer is designed to work properly at an ambient temperature of between 15°C and 25°C and humidity of between 20% and 50%; Operating outside these limits may result in low quality models.

unboxing

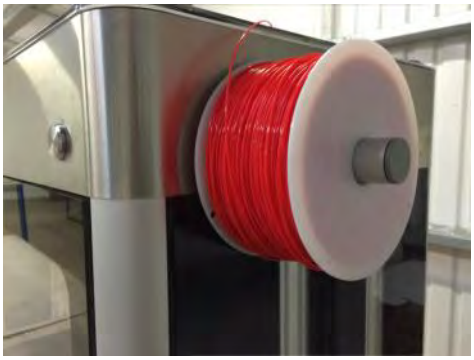
Great care has been taken to ensure your Zinter® Pro gets to you in one piece, however if there is any visible damage to the outer packaging, or obvious signs of damage please notify the courier immediately - failing to do so could invalidate any claim.

Unbox your Zinter® Pro and retain all packaging for future use. Ensure all foam inserts are removed from inside the printer.

Attach filament spool holders to tabs on the side of your printer, Ensure threads are correctly lined up before tightening.

Ensure you have all of the following parts before proceeding:

1 x Zinter® Pro Printer
1 x USB lead
1 x Power Lead
1 x Glass Plate & Clips
1 x Filament holder & spool
1 x Simplify3D® Download Pack
1 x Instruction Manual
1 x Filament sample pack



Your Zinter® Pro is heavy, lifting should be carried out by 2 people, care should be taken when lifting or moving.

installation

Your Zinter® Pro is shipped with a Simplify3D download booklet, please follow the instructions and use the One Time use code contained in the booklet to download and Install Simplify 3D. You licence permits installation on one computer - for additional licences please visit our on-line store at www.zinter.com

Installation:

 XP or greater	Unzip and double click the .exe file to install. You may need to right click and choose 'Run as Administrator' depending on your permissions and trust settings. The windows installation requires Microsoft Visual C++ Redistributable which should be automatically detected and installed if necessary
 OS x 10.6.8 +	Unzip and double click the .app bundle to install. Enter your administrator username and password and follow on-screen prompts
 Linux	The Linux installer comes with both 32 and 64 bit options. After choosing the appropriate version for your system, unzip the file and launch the .run package. It is recommended to launch this program as super-user by opening terminal, cd'ing to the directory where you unzipped the file, and the typing "sudo ./Simplify3D*installer.run" and entering the administrator password.

Launch: The installer will guide you through the installation steps. The last step is a prompt to open and launch your Simplify3D® Software for the first time.

Activate: The software must be activated through an Internet connection after installation.

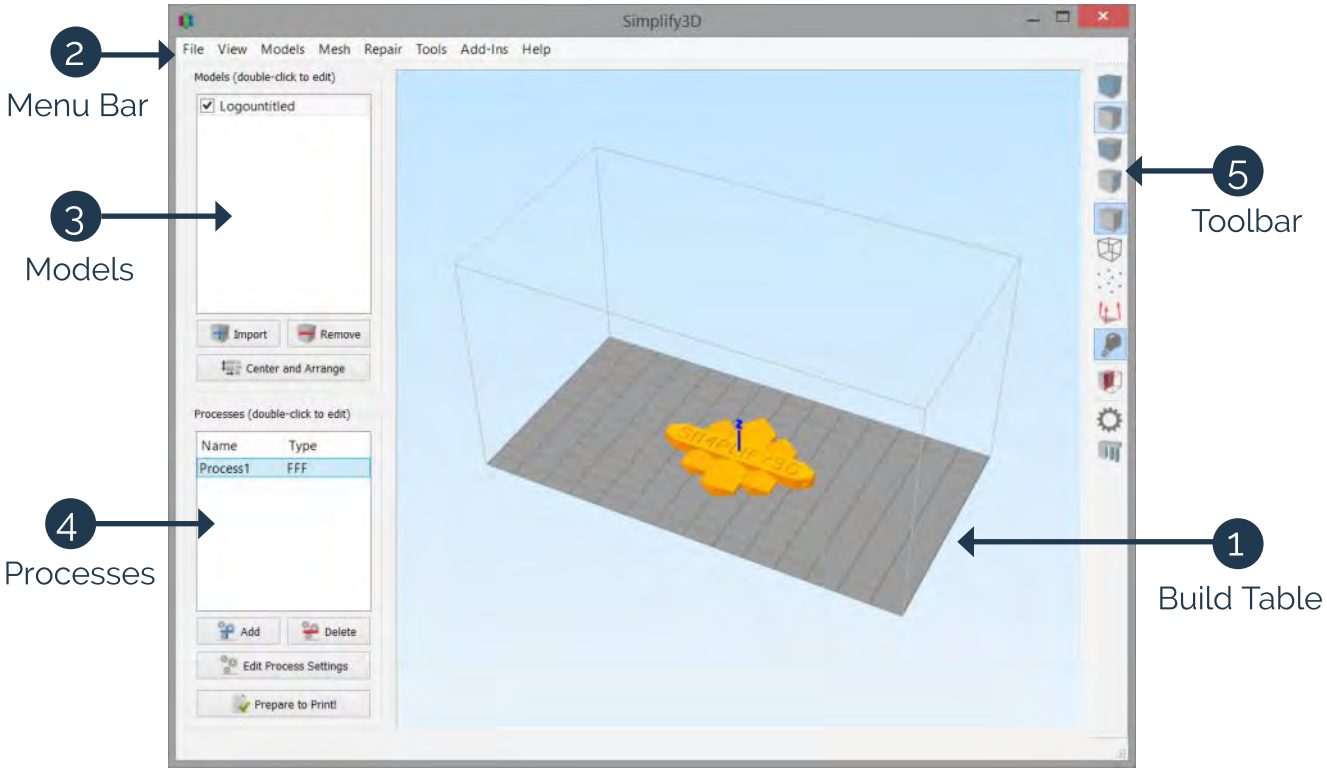
You can deactivate a specific machine at any time by going to Help > Deactivate Product.

configuration

When you open Simplify3D for the first time, you will be greeted by the Configuration Assistant. Select Ion Core Zinter Pro from drop down menu and the Assistant will automatically configure all of your settings.

If you want to access the Configuration Assistant after installation to change your settings to a different printer, it can be located in the horizontal Menu Bar under Help > Configuration Assistant.

the interface



1. Build Table: This is the interactive 3D environment where you will be viewing and working with your 3D content before printing. This is the "main stage" and primary viewing area. The grey grid is scaled proportionally to the size of your build volume and is determined based on your printer selection with the Configuration Assistant.

Use these mouse short cuts for different views:

- Rotate View – Left-click and drag
- Pan View – Right-click and drag
- Zoom – Scrolling or gesture zoom (or Shift-left-click and drag up and down)

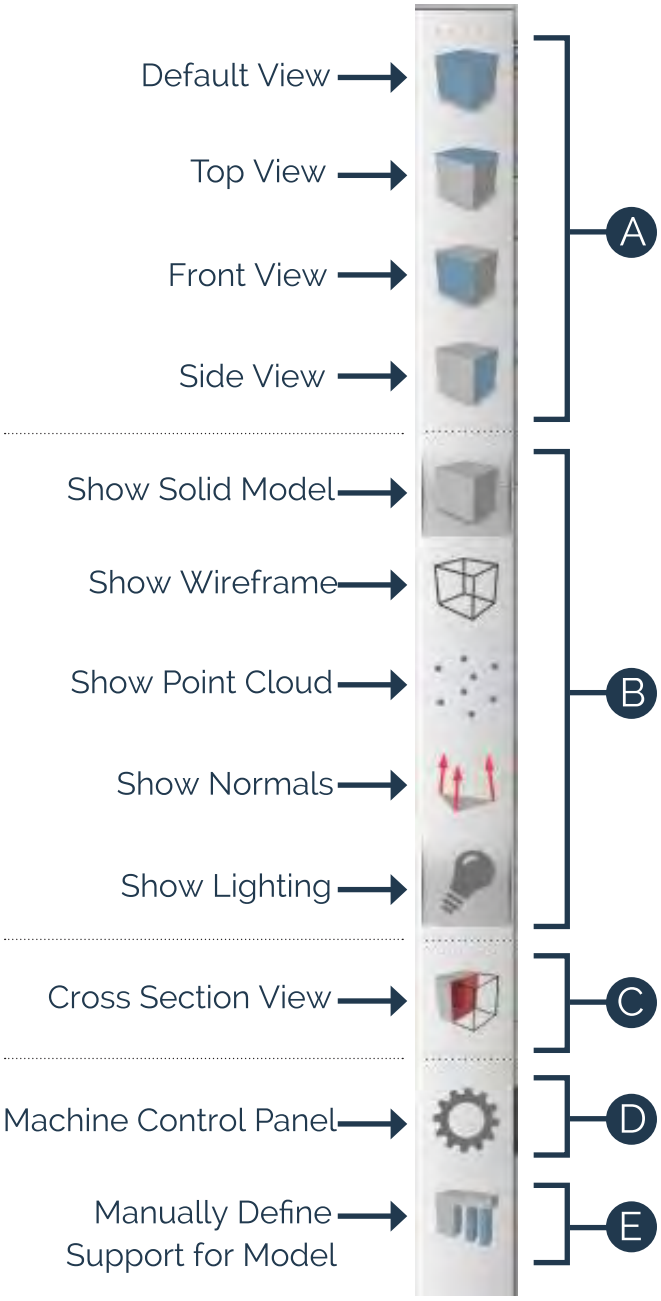
2. Menu Bar: Primary navigation to all aspects of Simplify3D Software.

3. Models: When you import 3D models, they are listed in this section above the buttons/commands that enable you to work with your models.

4. Processes: The build operations to create your 3D print are listed here, along with buttons/commands enabling you to work with process functions.

5. Toolbar: This toolbar contains quick access buttons for frequently used tools. You can move the toolbar anywhere you wish by clicking and dragging the top dotted line.

the interface



A. View: The first four buttons are preset viewing positions, allowing you to quickly change to the default, top, front, or side view.

B. Model Render: These tools control how you view the attributes of your 3D models. You can add a wireframe or a point cloud to your model, enable or disable the lighting and the solid rendering of the model, or display the surface normals of the model.

C. Cross Section Tool: The Cross Section tool gives you the ability to cut a model in half to look inside it. The tool allows you to cut your model from all three axes and can also be accessed in the Preview Mode.

D. Machine Control Panel: Simplify3D® Software can connect to virtually any printer through the Machine Control Panel (MCP). Another way to access the MCP is through the top menu bar under Tools > Machine Control Panel. The MCP allows you to view your extruder and build plate temperatures, preheat your nozzles, jog your machine's motors, and access the software-printer communication log.

E: Support: The Manually Define Support tool provides the freedom to customize your support structure under or inside any part of a model.

import a model

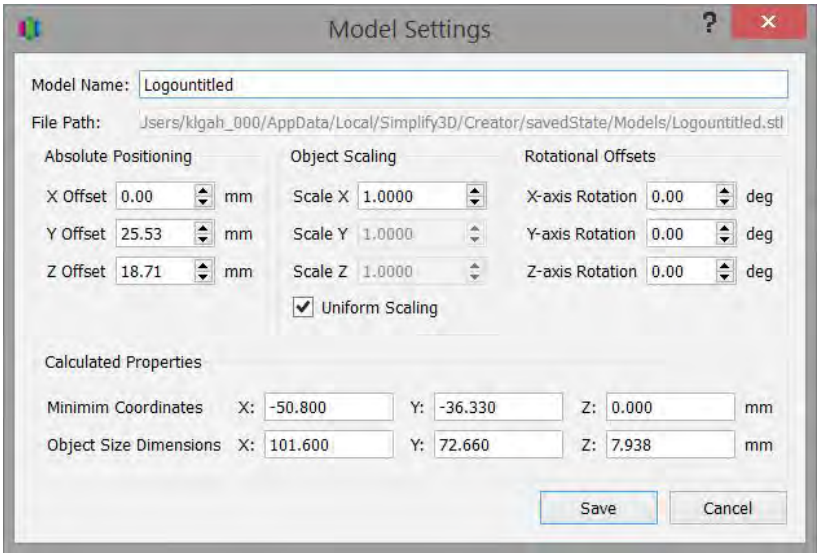
The first step in the 3D printing process is to import the model you want to build. You can obtain 3D models from http://www.thingiverse.com* or you can make a model yourself using a CAD package like SketchUp or AUTOCAD®. Save the 3D model file on your computer or storage device as an .stl or .obj file.

Click Import in the Models section and navigate to the folder where you saved your file. You can also drag-and-drop file(s) onto the Build Table. The software will automatically position and centre your imported model on the Build Table.

Helpful mouse and keyboard short-cuts to move, scale, or rotate your model:

Move Model – Ctrl-left-click and drag (or Command-left-click on Mac)• Scale Model – Ctrl-right-click and drag up or down (Command-right-click - Mac)• Rotate Model – Alt-left-click and drag right or left (or Option-Left Click on Mac)

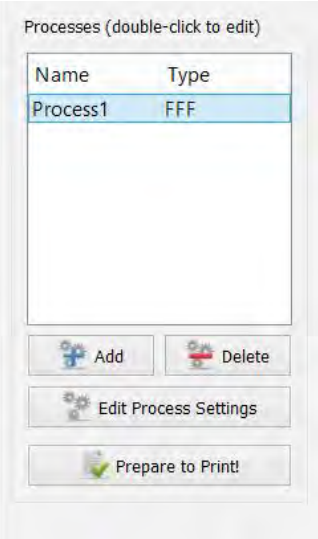
Advanced model settings: Double click on any model (either in the Models list or on the Build Table) to bring up the Model Settings box. Enter numbers or use the up-down arrows to adjust the positioning, scaling, or rotation of your model. A helpful feature is that you can see your model change in real time on the Build Table.



*Thingiverse is owned and operated by MakerBot® Industries, LLC

process settings

In the first step of the workflow, you imported a model. The next step is to define a Process that specifies how your model will be constructed.

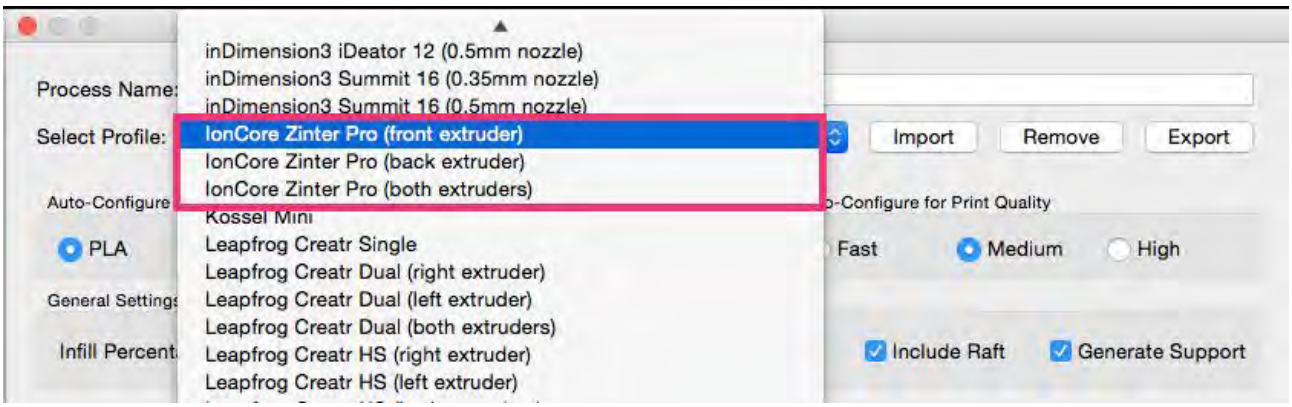


A process is a collection of settings including speed, size, support material, quality levels, etc. Some models are built with one process, while more complicated models may involve multiple processes throughout the build sequence.

The first Process will be configured automatically based on the printer selected in the Configuration Assistant. You're free to make any adjustments you desire, but it's a great starting point!

To make adjustments to your Process, double-click on the Process or click Edit Process Settings. This will open the FFF* Settings window.

*The acronym FFF stands for Fused Filament Fabrication, and is the industry term for the 3D printing processes you will be using.



process settings

The FFF Settings window contains all the Processes that specify how your model will be constructed:

1. Select Profile – Allows you to choose a pre-configured printer profile.

2. Auto-Configure for Material – Allows you to select the material you will be printing with.

3. Auto-Configure for Print Quality – Allows you to select a pre-configured print quality.

4. Infill Percentage – Changes the interior solidity of your 3D print. 0% is completely hollow and 100% is completely solid. A value in the range of 20-50% is a good place to start.

5. Include Raft – Generates a raft structure underneath your part. Rafts are used to improve the bond to your build platform and may help reduce warping on large models.

6. Generate Support – Turns on support material for your 3D print. Support structures are similar to scaffolding, in that they help support steep overhangs and unsupported areas during the construction process. Typically, a 45˚ or greater overhang will benefit from support material underneath it. Simplify3D provides a unique ability to customize your supports, with add and delete support buttons. Simplify3D support structures break away cleanly and easily, minimizing difficult post-production cleaning and insuring the highest quality final print. Click OK when you have finished configuring your settings in the FFF Settings window. At any time, you can modify the settings by double-clicking on the Process in the list, or by clicking Edit Process Settings.

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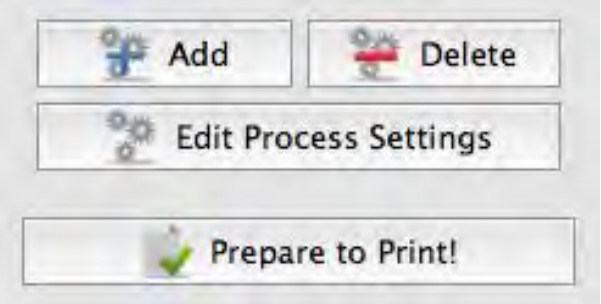
Click 'Show Advanced' at the bottom of the FFF settings window to view additional options and settings that are available within your Simplify3D Software.

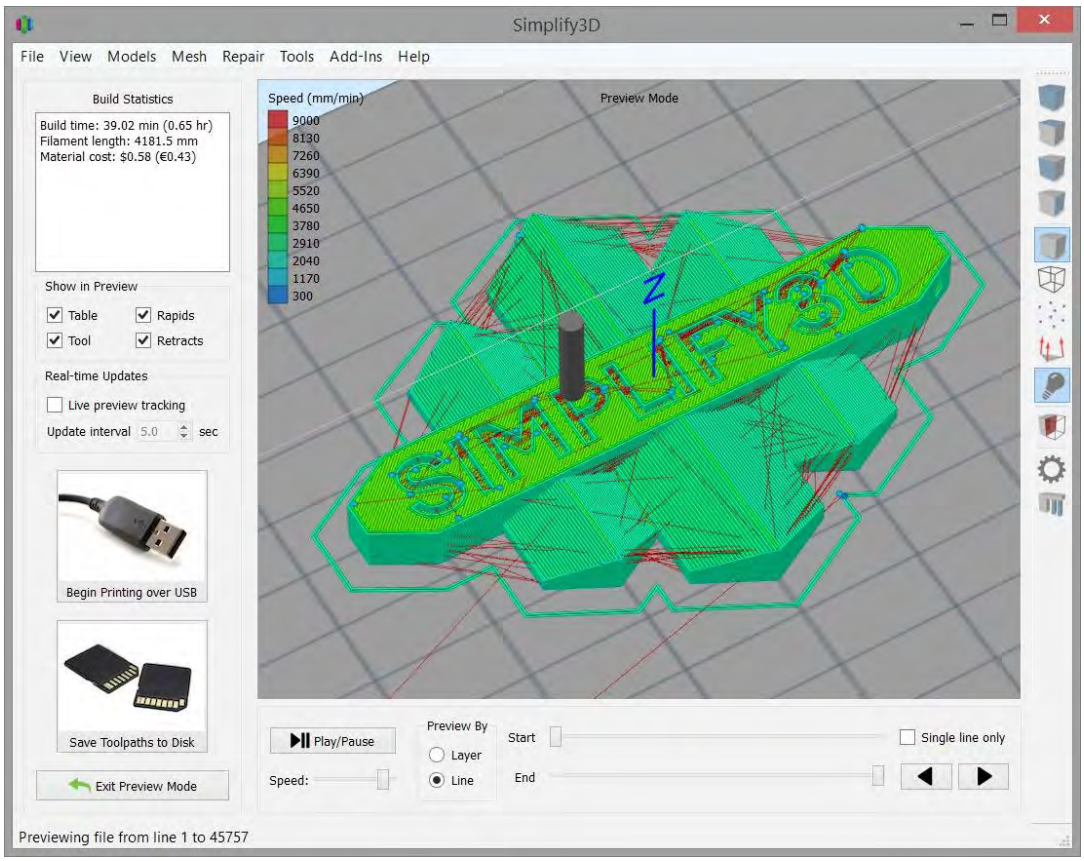
previewing g-code

"Slicing" is the term used to describe the process of translating a digital model into line-by-line printer instructions called "G-code." The software slices the model into G-Code based on the variables you have selected in the FFF Settings window.

After you have finalised your Process settings, click Prepare to Print! to trigger the preparation of G-Code. Simple models will be sliced in seconds, while complex models may take several minutes.
When your G-Code has been created, the software window will transition automatically to Preview Mode.

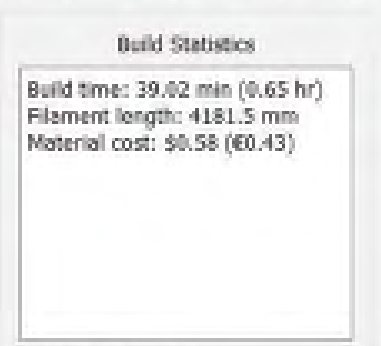


The animated Preview Mode in the Simplify3D® Software allows you to inspect all aspects of your print operation prior to execution. The software takes your generated G-Code and virtually displays line by line how your model will be constructed.



preview

Build Statistics are located in the top left corner of the Preview window and include three estimates:



1. Build Time (how long it would take for your print to finish).
2. Filament Length (how much filament it will take to build your model).
3. Material Cost (an approximation of how much it will cost to make your part).

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Build statistics are intended only as a guide, and should not be relied upon to make business or costings decisions..

The Preview provides interactive buttons for precise playback control:

- Play/Pause button animates the preview line by line.
- Start and End Slider Bars allow you to move through the preview manually.

(Hint: leave the Start button positioned at left and drag the End button to see the entire build). The preview can be illustrated by Line or by Layer by clicking on either selection.

A useful setting is to select Preview by Layer and also place a check mark in Single Layer Only. Together, these selections will allow you to view a single layer at a time.

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If you want to make adjustments to your model or process before printing, click exit Preview Mode.

keyboard shortcuts

MODEL MANIPULATION

Normal Selection	Q
Translate Models	W
Scale Models	E
Rotate Models	R

FILE MENU

New	Ctrl + N
Open	Ctrl + O
Save Factory File	Ctrl + S
Save Factory File As	Ctrl + Shift + S
Import Models	Ctrl + I

EDIT MENU

Undo	Ctrl + Z
Redo	Ctrl + Shift + Z
Copy Selection	Ctrl + C
Paste Selection	Ctrl + V
Remove Selection	Delete
Group Selection	Ctrl + G
Ungroup Selection	Ctrl + Shift + G
Select All	Ctrl + A
Deselect All	Ctrl + Shift + A
Duplicate Models	Ctrl + D
Center and Arrange	Ctrl + R
Drop Model to Table	Ctrl + T
Place Surface on Bed	Ctrl + L
Prepare to Print	Ctrl + E

VIEW MENU

Default View	Ctrl + 1
Top View	Ctrl + 2
Front View	Ctrl + 3
Side View	Ctrl + 4
Wireframe	Ctrl + W
Cross Section	Ctrl + K

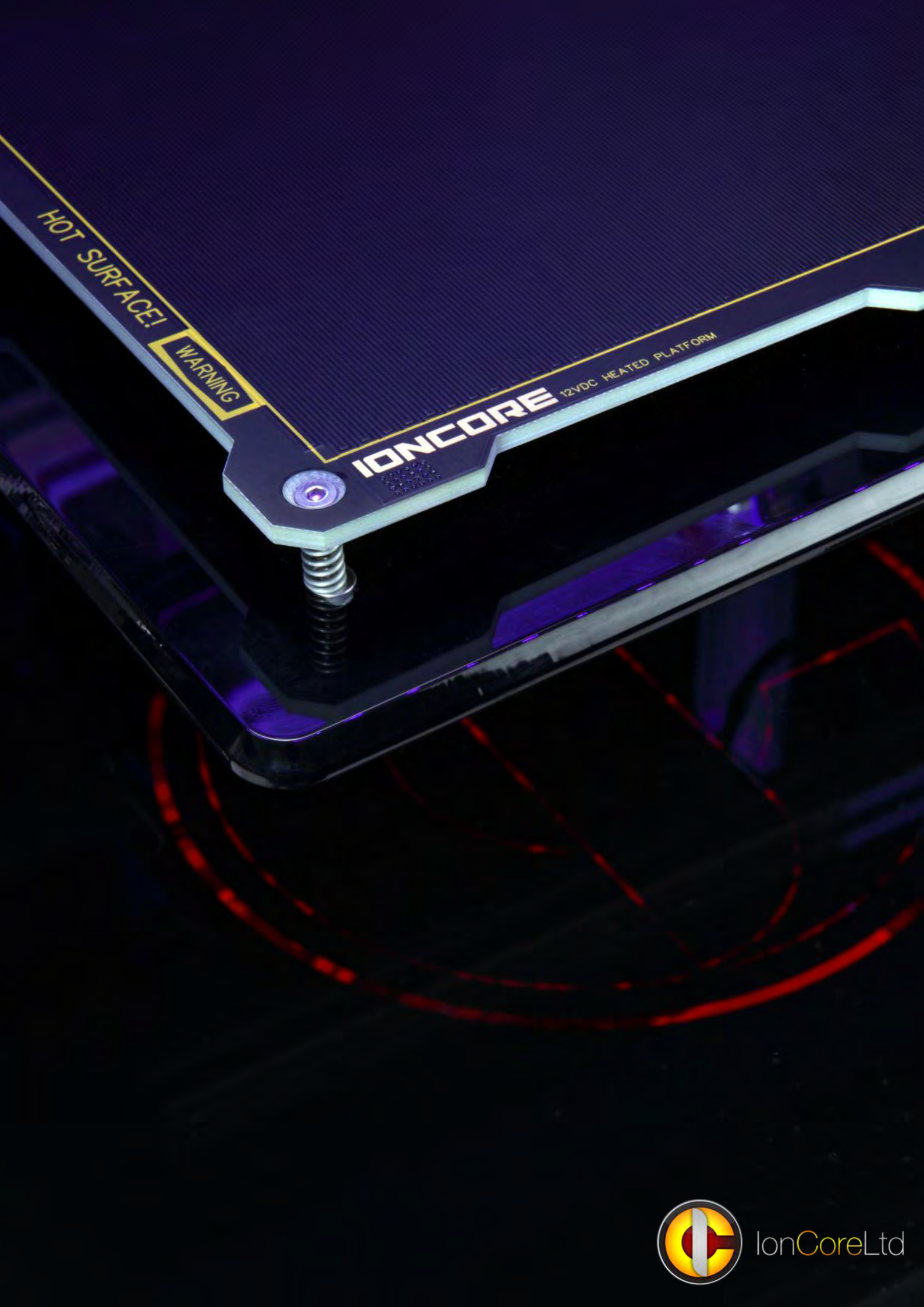
TOOLS MENU

Machine Control Panel	Ctrl + P
Customize Support Structures	Ctrl + U

OTHER SHORTCUTS

Select Multiple Models	Shift + Click Models
Change Build Plate Angle	Right Click + Drag
Change Build Plate Position	Left Click + Drag
Zoom In/Out on Build Plate	Scroll

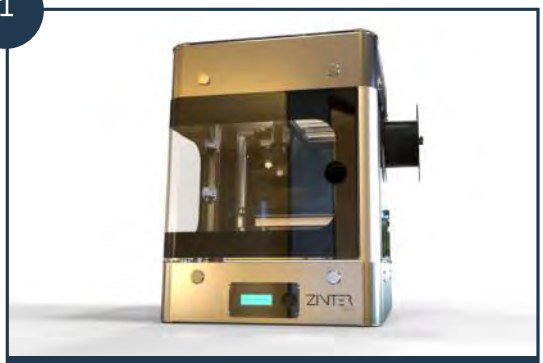
Note: Mac users will need to replace the CTRL key with the Apple Command key (i.e., Command + Z to Undo).



IonCoreLtd

get connected

1



Place on Zinter® on a firm surface

2

Connect the USB Cable

3

Connect the Power Cord

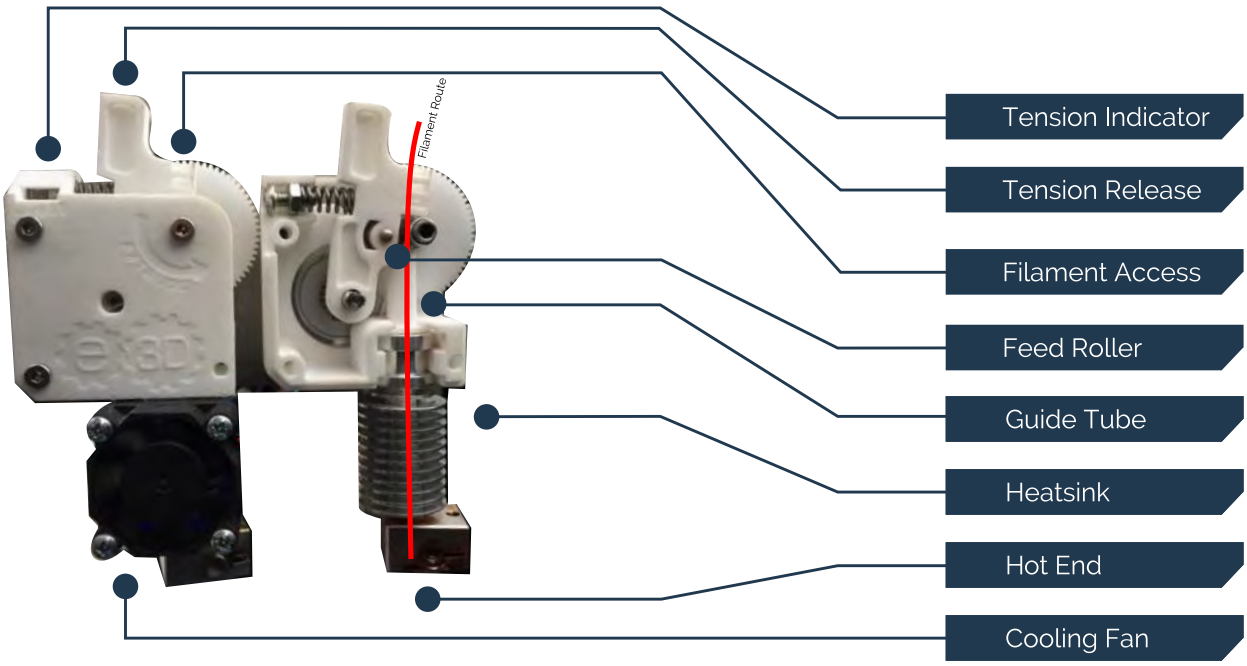
4

Power On

Loading Filament

When heated the hot end is extremely hot - take extra care when loading filament to prevent contact and avoid serious burns.

Loading filament can be tricky but is made much easier by understanding what is going on inside the extruder while you try to load filament. The image below shows the extruder assembly of your Zinter® Pro both with the Fan and Heat sink removed and complete and with key parts identified.



1: To load filament first ensure you begin by straightening out approx 5 - 10 cm of filament

2: While depressing the tension release lever insert filament through the Filament Access hole in the top of the extruder assembly.

3: Now carefully feed the filament in through the feed roller and into the end of the Guide Tube - This is quite fiddly, but gets easier with practice! This will be easier if you have cut the filament end at 45° to create a 'point'.

3: Using the panel on the front of your Zinter® Pro access the Utilities menu and select Load Filament for the Extruder you wish to load.

4: The printer will now heat the extruder, and drive the feed roller until the filament starts to extrude.

Blocked Extruder

When heated the hot end is extremely hot - take extra care when loading filament to prevent contact and avoid serious burns.

From time to time your extruder may become blocked, and you will need to strip down your extruder to clear filament from the unit. This process can also be used to clean the drive gear to achieve optimum results.

Begin by un-clipping the cooling fan from the heat sink, then carefully remove the 4 screws holding the extruder cover plate in place

Remove the cover plate to expose the inner workings of the extruder, be careful not to misplace the small bearing housed within the cover-plate.

You can now remove the tension release arm,by sliding it towards you, taking care not to loose the nut, bolt and spring that set your feed roller tension

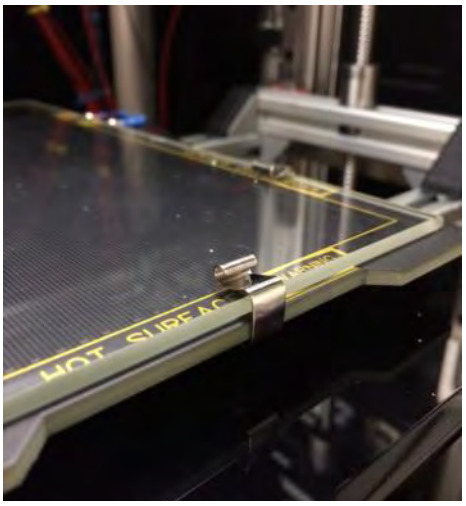
With the tension arm removed you can now remove the heatsink, guide tube and hot end from the extruder assembly by sliding carefully towards you. **Be extremely careful if the hot end is still warm.** Take note of the orientation of the guide tube - it must be replaced the same way it came off!

You can now unscrew the heak sink from the hot end, be careful not to loose the PTFE tube contained within, this will reveal any blocked filament.

You may need to heat the hot end in order to release the filament - if required this must be done with extreme caution.

Reverse these instructions to rebuild your extruder.

bed levelling

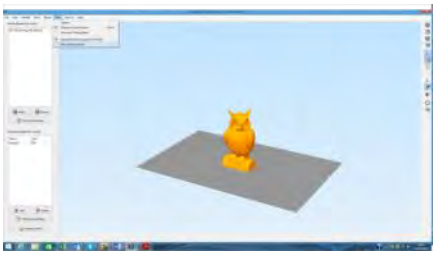


The most common cause of print problems and print failures is a print bed that has not been levelled.

Once you have levelled the bed on your Zinter® Pro, technically you shouldn't need to touch it, however if you experience issues its always worth checking this first.

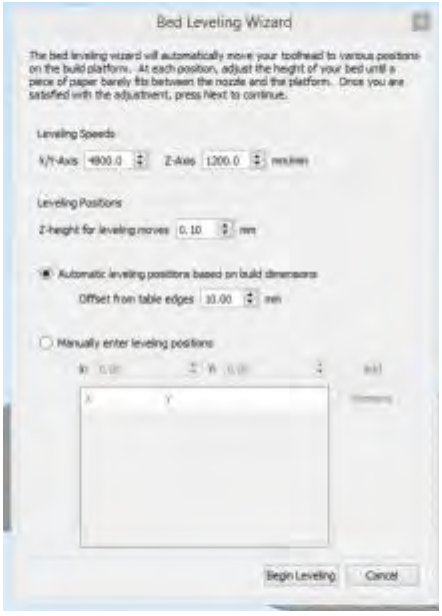
Underneath your print platform there are 3 Thumb screws, these allow the bed to be 'tilted' in any angle to level the bed.

The bed levelling process is started either from the Printers front panel or by clicking Tools > Bed Levelling Wizard in Simplify3D. Ensure the glass print plate is fixed in place before starting.



1: Once you run the wizard press 'Begin Levelling' the bed will calibrate and the nozzle will move to the front left hand side of the printer (Away from the bed)

2: Check that there will be enough clearance for the nozzle to move over the bed and press next.



3: The printer will move the nozzle to one corner of the heated bed, place a single sheet of paper between the build plate and the nozzle and adjust the tension screw unil you can just move the paper freely

4: Press next to move the nozzle to the next corner and repeat step 3

5: Repeat this for all four corners until the bed is level - you are now ready to print and you can close the wizard.

6: You can also level the bed using the Utilities menu on the front panel of your Zinter® Pro by following the on screen instructions.

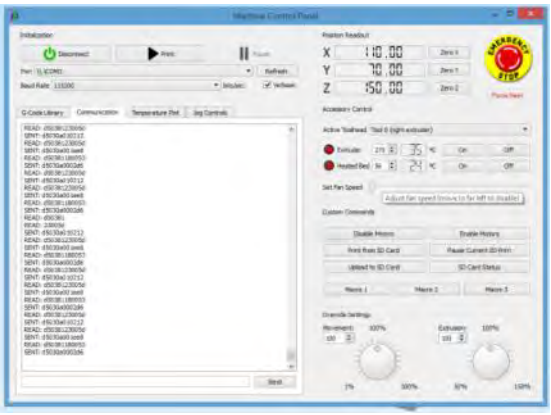
lets print!

When you are happy with the preview, there are two options to begin your print: Begin Printing over USB – if you are using a USB connection, you have the option to view the build sequence real-time on your monitor by selecting Live Preview Tracking.

For additional information on USB communication, access the Machine Control Panel to view a broad range of information that is transmitted via USB.

Save Tool paths to Disk – This saves your print file to a user-defined location, such as
a folder on your computer or an SD card.

At the time of this manual going to print (March 2015) Printing from SD card is not currently supported on the Zinter® Pro.



During the Print you can click the pause button within the Machine Control Panel at any time to pause the print. The Extruder will remain at heat, as with the bed. You can the restart the print by clicking the print button again.

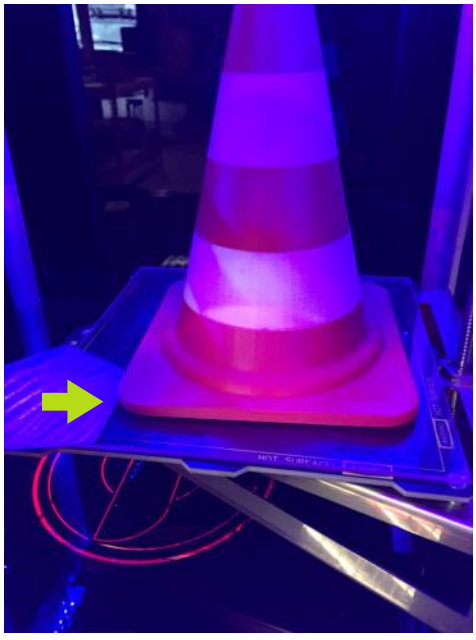
The Stop, or Emergency Stop buttons will both cease the print - you will not be able to restart the print.

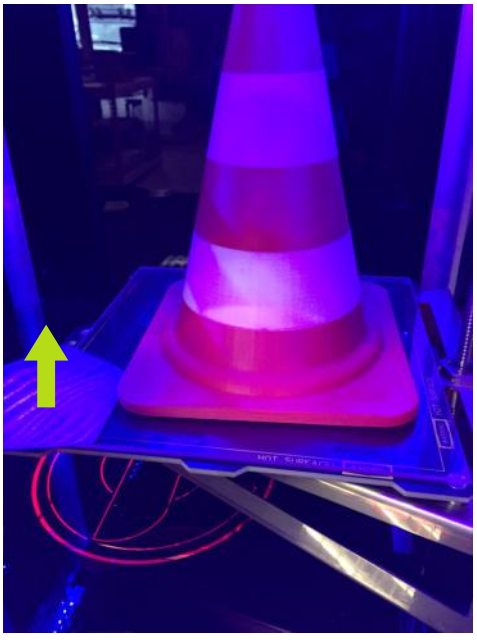
removing a print

Do not try to remove the model from the print bed before the nozzles and the bed have cooled. Doing so may cause burns or damage to your model or printer.

Once the Zinter® Pro has finished printing, the extruder's will return to the 'Home' Position, and the Bed will lower to the bottom of the print area. the bed and nozzles will begin to cool It is advised that you wait approximately 10 minutes for cooling to complete before removing the print.

A wallpaper scraper, or pallet knife, kept flat against the print glass is ideal for removing the model from the print bed.





filament guide

Your Zinter® Pro is supplied with an extensive range of Premium Filament samples produced specially for IonCore.

For best results we recommend using IonCore filaments with your Zinter® Pro.

The table below shows the ideal settings for each of the filaments in the Ion Core range, however in some cases you may need to work outside these ranges for best results and the information produced is subject to change without notice.

PLA	Nozzle Temp	Bed Temp	Speed
All Colours	192 - 200C	50 - 60C	40 - 100mm/s

ABS	Nozzle Temp	Bed Temp	Speed
All Colours	220 - 260C	60 - 70C	40 - 70mm/s

Specials	Nozzle Temp	Bed Temp	Speed
XT-CF20 Carbon Fibre	240 - 260C	60 - 70C	40 - 70mm/s
Copperfill	195 - 220C	50 - 60C	40 - 100mm/s
Glowfill	195 - 220C	50 - 60C	40 - 100mm/s
Brassfill	195 - 220C	50 - 60C	40 - 100mm/s
Bronzefill	195 - 220C	50 - 60C	40 - 100mm/s
Woodfill	195 - 220C	50 - 60C	40 - 100mm/s
Bamboofill	195 - 220C	50 - 60C	40 - 100mm/s

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More abrasive filaments such as XT-CF20 Carbon Fibre, and some metallic filaments (Brassfill for example) will wear your print nozzle much quicker that plastic filaments. This will become apparent through reduced quality prints, particularly where fine detail is needed.

filament range

We are constantly adding new colours to our range and the full list is available through the online store at www.zinter.com.

PLA / ABS

colorFabb

ColorFabb Special filaments allow a range of exiting new filament to be used through your Zinter Pro - those tested by us so far are shown below - please feel free to experiment with new filaments and let us know how you get on!

Specials

faq's

Is the Zinter® Pro suitable for use by children?

Almost all 3D printers use Hot Extruder's, and utilise moving parts, and without direct and constant supervision these parts could cause injury, all of Ion Cores printers feature a Semi-Enclosed print envelope, which ensures that when the door is closed its much less likely that wandering hands can access hot or moving parts.

What issues may I face?

The biggest complaint users find with 3D printers is models lifting from the print bed during the print, and this happening half way through a 6 hour print can be extremely frustrating, the Zinter® Pro and Home both feature a heated print bed, which significantly improves the models adhesion to the print be - but this still can occasionally happen. We have found that applying watered down PVA glue to the print bed, or sticking masking tape to the Glass bed before printing both help dramatically reduce occurrences of the print lifting from the bed - the internet is full of weird and wacky solutions from hair spray to beer - we recommend PVA glue!

Do I have to use IonCore supplies?

You do not have to purchase your supplies from us (though we would love it if you did!) however the results of using cheap imported filament in any 3D printer are well documented on-line. We would recommend only sourcing quality filament through a reputable supplier - we cannot accept any warranty claims arising from the use of filament not approved for use in our machines.

What colours of filament are available?

There is a standard rage of about 50 colours available plus, fluorescent and glow in the dark however we can (subject to minimum order quantities and lead times) obtain filament in almost any colour if you wish to match an existing branding or products.

Do I require a special location to install the Zinter® PRO?

All 3D printers should be located in a well ventilated room, where temperatures are reasonably stable and the machine should be located on a stable surface capable of carrying its weight. The Zinter® Range of printers do not need special ventilation systems.

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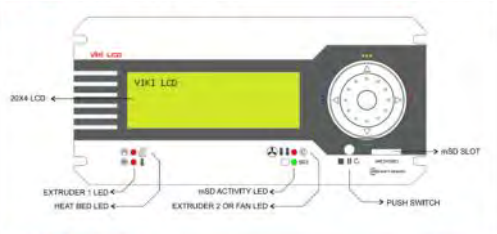
A full list of FAQ's is available at www.zinter.com

front panel menu



You can control your printer and access advanced menus using the front panel. Access menus using the Jog Wheel along with the Up, Down, Left and Right arrows. Menu layout is listed below.

- Home
  - Info Screen
  - Utilities
    - Auto Home
    - Metrics
      - Total Filament Used
      - Total Print time
    - Load Filament
      - Front Extruder
      - Rear Extruder
    - Unload Filament
      - Front Extruder
      - Rear Extruder
    - Auto bed Level
    - Manual Bed Level
  - Prepare
    - Disable Steppers
    - Set Home Offset
    - Preheat PLA
      - Preheat PLA 1
      - Preheat PLA 2
      - Preheat PLA All
      - Preheat PLA Bed
    - Preheat ABS
      - Preheat ABS 1
      - Preheat ABS 2
      - Preheat ABS All
      - Preheat ABS Bed
    - Cooldown
    - Switch Power ON / OFF
    - Move Axis
      - Move 10mm
        - Move X
        - Move Y
      - Move 1mm
        - Move X
        - Move Y
        - Move Z
        - Move Extruder
      - Move 0.1mm
        - Move X
        - Move Y
        - Move Z
        - Move Extruder
- Control
  - Temperature
    - Nozzle Front Extruder
    - Nozzle 2 Rear Extruder
    - Bed
    - Fan Speed
    - Auto temp
    - * Min
    - * Max
    - * Fact
    - PID-P
    - PID-I
    - PID-D
    - PID-C
    - Preheat PLA Conf
    - Fan Speed
    - Nozzle
    - Bed
    - Preheat ABS Conf
    - Fan Speed
    - Nozzle
    - Bed
  - Motion
    - Accel
    - VXY-Jerk
    - VZ-Jerk
    - Vmax x
    - Vmax y
    - Vmax z
    - Vmax e
    - Vmin
    - Vtrav min
    - A max x
    - A max y
    - A max z
    - A max e
    - A retract
    - X steps/mm
    - Y steps/mm
    - Z steps/mm
    - E steps/mm
  - Restore Fail Safe
- SD Card
- Firmware Info

This menu is subject to change with each new Firmware Release

care for your Zinter®

Filament Materials

Your Zinter® Pro utilises an open format filament system. We strongly recommend you purchase your 3D printing filament materials from www.zinter.com, where every filament has been thoroughly tested to work on your printer and comes with optimized default settings for easier printing.

If you choose to purchase your filament elsewhere, avoid low quality filaments that can lead to failed prints and even damage your Zinter® Pro. Low quality filament can contain foreign objects, unlisted material blends, voids and density variations, its also not uncommon for cheap filament to have varying filament diameter. Purchasing consistent and reliable filament is key to consistent and reliable prints, and well worth it to protect your investment in a Zinter® Pro.

More abrasive filaments such as XT-CF20 Carbon Fibre, and some metalic filaments (Brassfill for example) will wear your print nozzle much quicker that plastic filaments. This will become apparent through reduced quality prints, particularly where fine detail is needed.

Print Bed

Your Zinter® Pro has a removable glass print surface, always check this plate for chips, cracks or damage at the start and end of each print, if any become apparent cease use immediately and replace.

If you start seeing adhesion issues and your prints are not sticking to the glass, carefully wipe the glass with isopropyl alcohol.

For some filaments applying Zintac™ to your print area prior to printing can also improve bed adhesion.

Print Nozzle

Over time you may also experience an accumulation of filament on the nozzle and heater block. To clean up this accumulated filament, heat the hot end up to 180˚C and then carefully wipe affected areas using a clean dry cloth.

CERTIFICATE & DECLARATION OF CONFORMITY FOR CE MARKING

For the following products:

Zinter Pro
Effective from serial number ZP - 500

Manufacturer:

IonCore LTD
Unit 6 Branham Crescent
Roundswell business park
Barnstaple
Devon
EX31 3TD
United Kingdom
info@ioncoretechnology.com
+44 (0) 844 409 7976

Year of affixing CE marking: **2015**

We hereby declare that the product listed above is in compliance with the essential requirements of the following EU Directives:

Machinery Directive (2006/42/EC)
Electromagnetic Compatibility Directive (2004/108/EC)
Low Voltage Directive (2006/95/EC)
RoHS 2 Directive 2011/65/EU

and further conform with the following EU Harmonised Standards:

EN 953:1997 + A1:2009
EN 60204-1:2006 + A1:209
EN 61000-6-3:2007 + A1:2011
EN 61000-6-1:2007

Shane Nelson
Managing Director

Signed on behalf of Ion Core LTD
Place of Issue: United Kingdom

Contact

Sales

- P: 0844 409 7976
- E: info@ioncoretechnology.com
- http://www.ioncoretechnology.com

Spares and Accessories

- P: 0844 409 7976
- E: sales@ioncoretechnology.com
- http://shop.ioncoretechnology.com

Warranty & Support

- P: 0844 409 7976
- E: support@ioncoretechnology.com
- https://ioncore.zendesk.com

IonCoreLtd