

Key Benefits You Will Get with Sonic

Phrozen Sonic



Print Fast

- >> Using Mono-LCD with 4 Times Transmittance
- >>> ParaLED™ 3.0, Specially Designed for Mono-LCD
- >>> Fast Moving Single Linear Rail



Less Maintenance

- >> Tailor-Made Mono-LCD
- >> 2000+ Hour Longer Life Time
- >> Better Thermal Stability: Less Dead Pixels for Long Use
- >> Compression Resistant: Tolerance for Operation Error



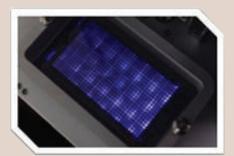
Easy Operation

- >> Equipped with %" High Resolution Touch Panel
- >> Pre-installed Phrozen OS with better User Experience
- >>> PZSlice Pro, professional slicer powered by FormWare

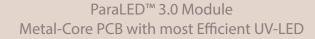


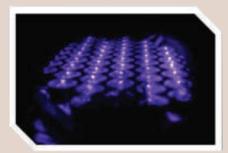


Why Sonic Is Fast?



Mono-LCD Made For 3D Printing 4 times Higher Transmittance at 405nm







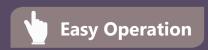
Fast Moving Single Linear Rail Increase Moving Speed by 50%



Cure at 0.5 sec At Fastest



Moving Faster for Each Cycle



Phrozen Sonic



5" High Resolution Touch Panel One Click Control For Better Operation

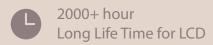


Pre-Installed
Phrozen OS
User Friendly with Multi-Functions



ChiTuBox
A slicer software specialized
for SLA/DLP/LCD 3D printer users
to prepare, edit and slice 3D models.

\$ Less Maintenance



Thermal Stability
Less Dead Pixels

Compression Resistance
Tolerance for Operation Error

Technical Specification

General		
Type of Technology	LCD	
Printer Size	28*28*37cm	
Printer Weight	11.5 kg	
LED Wavelength	405nm	
Voltage	100-240V	
System Power	60W	
Print Speed	60mm/hr	
Print Size	12*6.8*17cm	
XY Resolution	62 um	
Z Resolution	10 um	

Hardware		
Z-Axis	Single Linear Rail	
	Lead Screw	
	All Aluminium CNC Struture	
Optical Design	ParaLED 3.0 Module With 405nm UV-LED	
LCD	5.5" mono-LCD 2000hr Life Time, customized for 3D Printing	
Touch Panel / OS	5" IPS High Resolution Touch Panel with Phrozen OS	
Cooling System	Multi-Fans Cooling	
Connection	WiFi, Ethernet, USB	
Slicer	ChiTuBox	



The Sonic XL 4K 3D printer is engineered with Monochrome LCD technology with 4K resolution offering speed, precision, and build area empowering professionals across 3D printing industry.





Fast Printing | Easy to Use | High Precision

Phrozen Sonic XL 4K

Engineered for Speed



The monochrome LCD design amplifies transparency, curing at up to 0.2 seconds for maximized speed.

Reliability = Less Maintenance



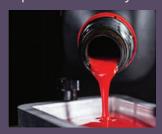
The thermal stable mono-LCD is highly heat resistant increasing lifetime to over 2000 hours! No more panic about maintenance.

All about the fine print



4K resolution technology specifically designed for 3D printing offering microscopic precision.

Open Material System



Compatible not only for ALL LCD resins but also for DLP resins including bio-compatible materials.

Excellent Accuracy and Print Quality



Unlike conventional COB LED design, Phrozen uses ParaLED 3.0 Module (parallel UV LED matrix back light system) giving the Sonic XL 4K the ability pass light through resin with complete uniformity.

3D Printing Made Easy



Start printing within 5 minutes: Attach the building platform, fasten the resin vat, and upload the file with 3 clicks. The Sonic XL 4K will allow you to jump start your printing.

Technical Specification

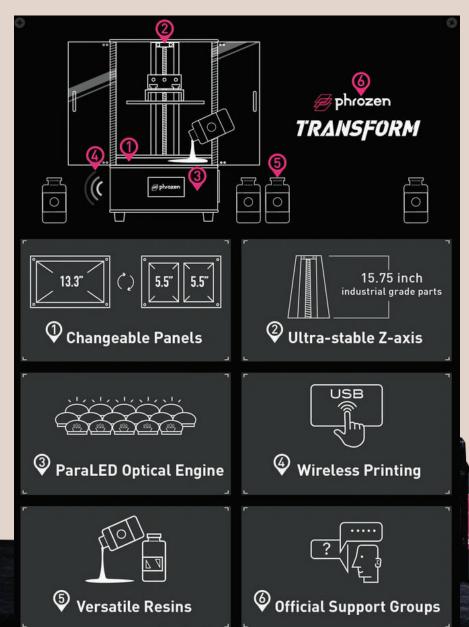
General		
Type of Technology	LCD	
Printer Size	33*29*47cm	
Printer Weight	11 kg	
LED Wavelength	405nm	
Voltage	100-240V	
System Power	160W	
Print Speed	200mm/hr	
Print Size	19*12*20cm	
XY Resolution	50 um	
Z Resolution	10 um	

Hardware		
Z-Axis	Dual Linear Rail	
	Ball Screw	
	Optical Switch	
Optical Design	ParaLED 3.0 Module With 405nm UV-LED	
LCD	8.9" 4K LCD over 2000hr Life Time, customized for 3D Printing	
Touch Panel / OS	5" IPS High Resolution Touch Panel with Phrozen OS	
Cooling System	4 Fans Cooling	
Connection	WiFi, Ethernet, USB	
Slicer	ChiTuBox	



Phrozen Transform Fast

HIGHLIGHTED FEATURES

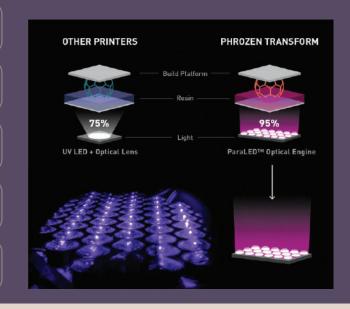




Key Benefits You Will Get with Transform Fast

Phrozen Transform Fast

#01 BIG	Groundbreaking Large Build Volume with 13.3" Panel and 15.75 inch Z-axis.
#02 EFFICIENT	Dual 5.5" Panels for Twice the Efficiency at 47-micron XY Resolution. Two prints at a time to cut printing time in half.
#03 MULTIPURPOSE	Change 2 Panels in 30 Seconds with Fast LCD Adoptor
#04 UNIFORM	ParaLED™ Optical Engine - Uniform Exposure for 95% of Surface Area. This gives a uniform exposure for 95% of the surface area.
#05 STABLE	Ultra-Stable Z-axis for High-Resolution Printing.



Technical Specification

General		
Type of Technology	LCD	
Printer Size	38*35*61cm	
Printer Weight	27.5 kg	
LED Wavelength	405nm	
Voltage	110-240V	
System Power	200W	
Print Speed	200mm/hr	
Print Size	29*16*40cm	
XY Resolution	76 um	
Z Resolution	10 um	

Hardware	
Z-Axis	Dual Linear Rail
	Ball Screw
	100% Aluminium CNC Structure
Optical Design	ParaLED 2.0 Module With 405nm UV-LED
LCD	13.3" 4K Monochrome LCD over 2000hr Life Time
Touch Panel / OS	5" IPS High Resolution Touch Panel with Phrozen OS
Cooling System	4 Fans Cooling
Connection	WiFi, Ethernet, USB
Slicer	ChiTuBox





ABS-like, Matte Gray Standard Resin

Matte Gray Phrozen

General

Color >>> Matte Gray
Density >>> 1.1g / cm3
Viscosity >>> 67 CPS

Mechanical

Elongation >>> 3%
Tensile Strength (Break) >>> 10 Mpa
IZOD Impact Strength >>> 1.44 KJ/m2

Surface

Water Contact Angle >>> 60 degree
Surface Hardness, Shore D >>> 76 Shore D

Wax-like Castable Resin



General

Color >>> Dark Green
Density >>> 1.04g / cm3
Viscosity >>> 192 CPS

Surface

Water Contact Angle >>> 50 degree Surface Hardness, Shore D >>> 74 Shore D

Mechanical

Elongation >>> 3%

Tensile Strength (Break) >>> 8 Mpa

IZOD Impact Strength >>> 1.91 KJ/m2

Phrozen Resins



Phrozen Resins

Phrozen Wash: Resin Cleaner

Key Features

[Applicable for Spraying & Soaking]

You can use Phrozen Wash either by spraying it on models or soaking models into it.

[Low Odor]

Phrozen Wash is with low volatility so that it has little smell for long term use.

(Excellent Washing Power)

Phrozen Wash can easily dissolve uncured resin. This is good for cleaning printed parts.

nH Value: 7.0 Neutral Halogen free

Water-Washable **Rapid Resin**



Key Features

[Water-Washable]

Unlike standard resin, Phrozen Water-Washeable Resin is highly hydrophilic, that is, easily to be cleaned by water. (DO NOT dump waster water directly. Cure the waster water by sunlight OR add 10% Waste Disposal Agent and filter residues before dumping).

Low Viscosity & Odor

Phrozen Water-Washable Resin is easy to be printed and post processed due to its low viscosity. Meanwhile its low odor will not make your place smells.

[Fast-Printing]

Phrozen Water-Washable Resin is customized for 405nm LCD printer. Cure time per layer: 7 sec on Shuffle & 1.5 sec on Sonic (50µm).

Tough & Non-Brittle

Typical water-washable resin is brittle, but not the case for Phrozen's Water-washable resins. Printed parts from Phrozen Water-Washable Resin are with good hardness and certain toughness. It is perfect match not only to models and prototyping.



Printing Accessories

Ultra-Sonic Cleaner



Key Features

- Best post-treatment cleaning partner for SLA/DLP 3D printing items.
- >> Product Size: 180 x 165 x 240 mm
- >> Inner Dimension: 140 x 130 x 90 mm
- >> Weight: 2.5 Kg
- >> Interior Material: SUS 304 at 1.1mm thickness
- >> With heating conrtol system (100W). Controlling range: 20 80 degree C
- >> Digital control ultra sonic time. Controlling range: 1 30 min
- >> Safety first. We have double fuse for power system
- >> Voltage: AC100-120V, 50/60Hz
- >> Phrozen will take care of 1 year warranty in Taiwan.









Phrozen Cure: UV Post-Curing Lamp



Key Features

- >> High intensity UV light (390 410 nm) for post curing, with intensity at 40 mw / cm^2.
- >> Can finish post cure within 10 mins, depending on your thickness.
- >> Use LED as light source. The lifetime is over 50,000 hours (Can sustain over 30 years with 4 hr daily use).
- >> 3 memory setting with time selection up to 9 hr 50 mins.
- Machine Size: 21.6cm x 20cm x 15cm
- >> Tray Size: 12.7cm x 17cm x 7cm
- >> Tray design with light filter. Easy to use and protect your eyes.
- >> Power Output: 65W, Power Input: 100-240 V AC / 50-60Hz.

Printing Accessories

Phrozen Cure (V2): UV Post-Curing Lamp



Key Features

- >> 【Great Inner Capacity】 17.5 x 14 x 18.5 cm inner capacity, which fits build volume for Phrozen 5.5" Printers.
- >> [Fast Curing by UV-LEDs] We use 365nm, 385nm, 405nm UV-LEDs (W in total) to cure inner, middle, and outer layers, respectively.
- >> 【360 Degree All-Around Curing】 The plate will rotate 360 degree and makes models cured all-around without any blind spots.
- >> 【Stable Power Supply & System Cooling】 Stable power supply and makes no surge. Dual-fans cooling also makes system stable for long-term use.
- >> 【Easy Operation】 Phrozen Cure comes with digital control system. One-click finishes all setup.
- >> 【Safety Interlock Design】 Cure lamp with safety interlock design. Applicable for 100-240V 50-60Hz full voltage.

Classification

- >> Machine Size: 21.5 x 19.5 x 28.5 cm
- Machine Weight: 4.2Kg
- >> Inner Capacity: 17.5 x 14 x 18.5 cm
- >> LED Specification: 365nm, 385nm, and 405nm. 60W in Total.
- >> Voltage: 100-240V 50-60Hz



Phrozen Cure XL: UV Post-Curing Lamp



Key Features

- >> 【Super Large Inner Capacity】 29.5 x 29.5 x 45 cm inner capacity, which fits build volume for all Phrozen models.
- >> 【Fast Curing by UV-LEDs】We use 365nm, 385nm, 405nm UV-LEDs (150W in total) to cure inner, middle, and outer layers, respectively.
- >> 【360 Degree All-Around Curing】The plate will rotate 360 degree and makes models cured all-around without any blind spots.
- >> 【Stable Power Supply & System Cooling】Stable power supply and makes no surge. Dual-fans cooling also makes system stable for long-term use.
- >> [Easy Operation] Phrozen Cure XL comes with digital control system. One-click finishes all setup.
- >> [Safety Interlock Design] Cure lamp with safety interlock design. Applicable for 100-240V 50-60Hz full voltage.

Classification

- >> Machine Size: 33 x 33 x 60 cm
- Machine Weight: 11Kg
- >> Inner Capacity: 29.5 x 29.5 x 45 cm
- >> LED Specification: 365nm, 385nm, and 405nm. 150W in Total.
- » Voltage: 100-240V 50-60Hz

