# RAY DENT

## Studio

Stand by

Printing

Finish

**Your Dental 3D Printing Solution**

# RAYDENT Studio

It is your complete solution with printing, curing and software.

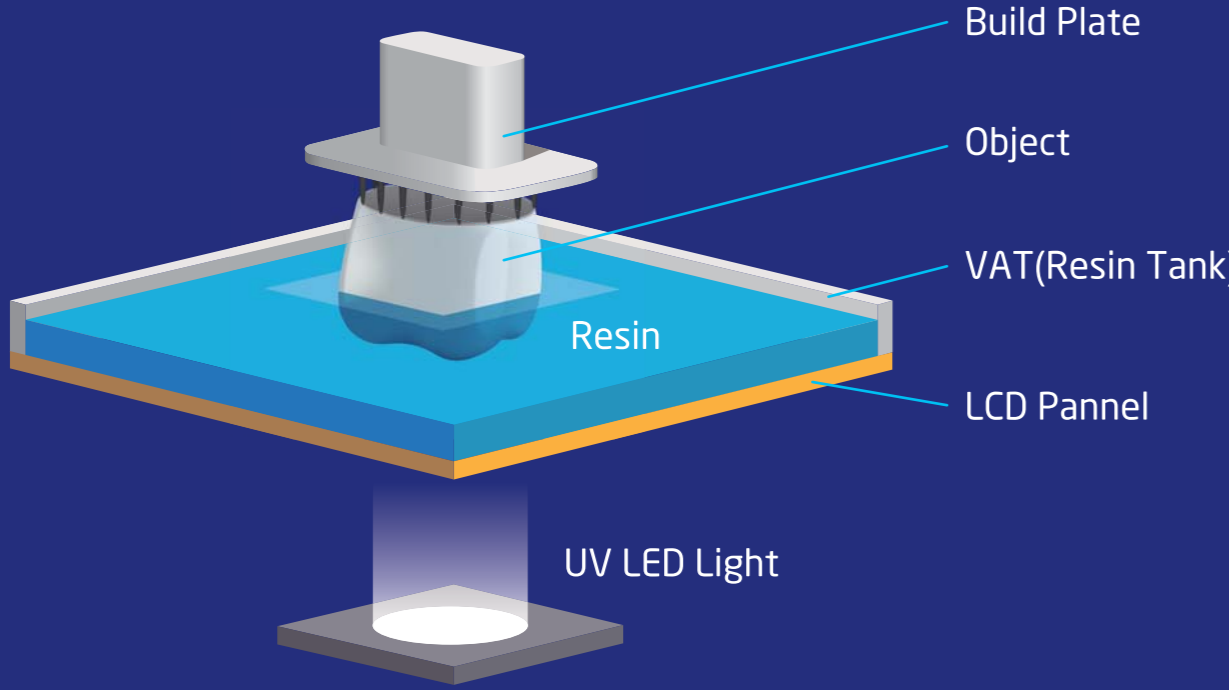## Fast, accurate and successful printing experience

RAYDENT Studio, designed for dental labs and dental clinics, makes 3D PRINTING more delightful.

# RAYDENT Technology

RAYDENT Studio utilizes LCD technology from mobile phone industry. LCPS provides fast printing with good precision and better uniformity as well as compact printer size for in-office use.

## Liquid Crystal Planar Solidification

Build Plate

Object

VAT(Resin Tank)

Resin

LCD Pannel

UV LED Light

There is no need to clean the VAT with a scraper or with a plastic cleaning spray.

The disposable resin VAT and liquid containers keep maintenance easy. These will save resin waste during handling.

RAYDENT SG
for surgical guide

Disposable Liquid Container

Disposable VAT

# Surgical guide

**Printing time**  **Full : 40-50 min  /  Half : 25-30 min**

**Accuracy**  **avg. 50 μm**



# Provisional restoration

**Printing time**  **20-25 min**

**Accuracy**  **avg. 40 μm**
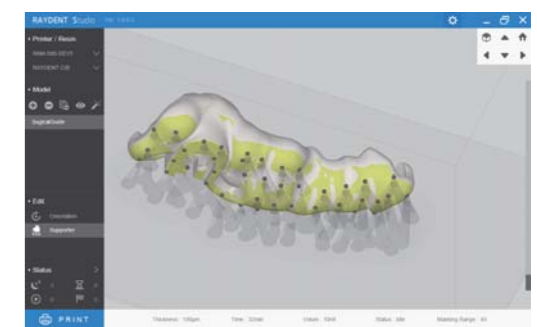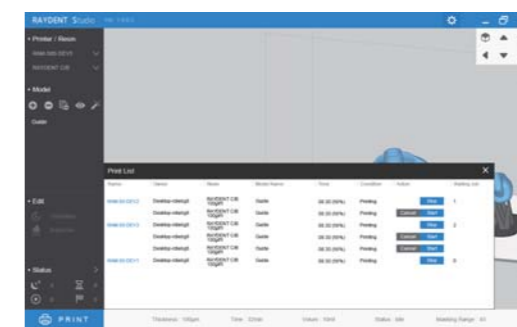
# Dental / Ortho Model
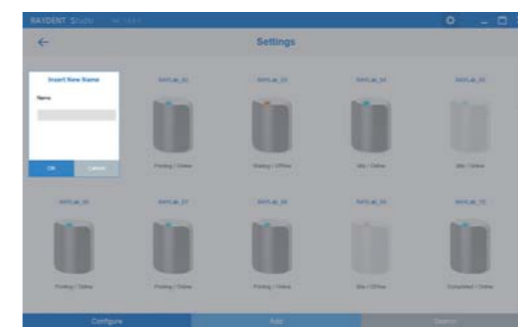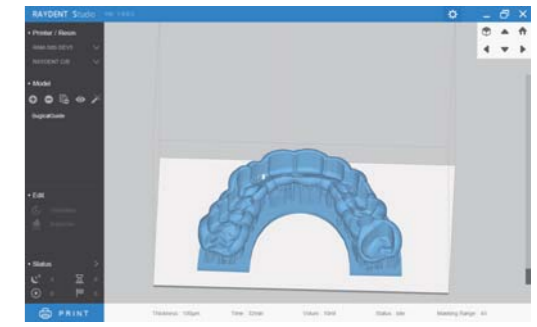
**Printing time**  **50-60 min**
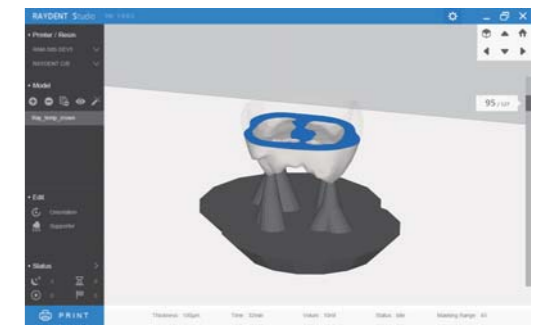
**Accuracy**  **avg. 50 μm**



# Software features

## Auto-orient for optimal position
## Auto-generation of supports

- Auto-mesh repair and layer slicer for path inspection
- Multiple-printer management from a PC
  for any large printing facility
- Printers' jobs and queues list for efficiency
- Preset printing conditions for successful printing

# Technical Specifications

## PRINTER (RAM500)

| | |
|---|---|
| Dimensions | **31 x 21 x 37 cm** <br> **12.2 x 8.3 x 14.6 in** |
| Weight | **6.5 kg / 14.3 lbs** |
| Operating Temperature | **5~35°C** <br> **41~95°F** |
| Power Requirement | **100-240 VAC, 50/60 Hz** <br> **(24 VDC, 2.5 A, AC/DC Adaptor)** |
| Connectivity | **Ethernet** |
| UV Specification | **405 nm** <br> **IEC62471** |

## PRINTING PROPERTIES

| | |
|---|---|
| Technology | **Liquid Crystal Planar Solidification** |
| Build Volume | **100 x 60 x 70 mm** <br> **3.9 x 2.4 x 2.8 in** |
| Layer Thickness (Axis Resolution) | **50 μm, 100 μm** |

## SOFTWARE

| | |
|---|---|
| Features | **Auto-orient for optimal position** <br> **Auto-generation of supports** <br> **Auto-mesh repair** <br> **Layer slicer for path inspection** <br> **Optimal printing PRESET for output** |
| System Requirements | **Windows 7 32 / 64bit (or higher)** <br> **4GB RAM (or higher)** <br> **OpenGL 3.0 (or higher)** <br> **File type .STL or .OBJ** |

## CURING UNIT (RPC500)

| | |
|---|---|
| Dimensions | **22 x 15 x 26 cm** <br> **8.7 x 5.9 x 10.2 in** |
| Weight | **2.5 kg / 5.5 lbs** |
| Power Requirement | **100-240 VAC, 50/60 Hz** <br> **(24 VDC, 2.5 A, AC/DC Adaptor)** |
| LED Specification | **395 nm** |

RAYDENT

**iF DESIGN AWARD 2017**

**reddot design award winner 2017**

**INTERNATIONAL DESIGN EXCELLENCE AWARDS '17 FINALIST**

**Ray**

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