NXD 200
The Fastest 3D printer for your Dental Applications

- Disruptive, modular and scalable Light Engine technology
- Edge-to-edge uniformity and accuracy
- High power and light transmission
- Real time monitoring, optimizing and diagnostics

- Print at a speed of up to a model a minute
- Spacious Build Platform 275 x 155 x200mm
- 405 nm and 4K Resolution

Models
Surgical Guides
Custom Trays
Nightguards/Splints

Powered by LSPc Technology

Learn more at: www.nexa3d.com
NXD200 Dental Solution

The most complete and fastest Dental 3D printer for Dental labs and larger production needs.

Large Build Plate Allows for Printing at a Speed of a Model a Minute

The NXE200 features 8.5L of build volume (measuring 10.8 in x 6.1 in x 7.8 in / 275 mm x 155 mm x 200 mm), an intelligent print optimization software, 4K resolution, and Nexa3D’s revolutionary patented LSPc technology. Thanks to its cutting-edge technology the NXD200 provides isotropic printed parts, higher throughput, and lower cost per part making it the perfect 3D printing solution for any dental application.

Consistency with Every Build

Accuracy, uniformity and repeatability from edge to edge on the build platform.

Lab Ready + Modular Design

In addition to our highly reliable LSPc technology, the NXD200 is crafted to be completely modular in design for easily interchangeable parts and technology upgrades eliminating hardware obsolescence.

Smart Integrated Workflow Software + Predictive Service

Nexa3D’s internally developed intelligent software connects our hardware and materials together into a powerful, user friendly system while providing a new era of predictive and prescriptive service. It’s as simple as pressing CRTL+P.

Book your live demo now
Get your sample part here
Validated Post Process Tools And Processes

Nexa3D’s xCure consistently and rapidly unlocks the full potential of your 3D prints regardless of size or complexity. xCure optimizes the curing of all resin-based parts to ensure consistent dimensional accuracy, robust structural integrity, and stronger molecular structures. It accommodates parts as large as 16 liters in volume. The chamber can hold up to three build plates at once and allows parts to cure directly on the build plate or be placed in a basket and cured individually. xCure’s Perfect Part Optimization process consists of dual wavelength LEDs, multi-build plates, and parallel UV and thermal processing. xCure’s validated end to end workflows drive the perfect balance of temperature, UV wavelength, and material-specific sequences to deliver the perfect cure. These optimal and effective curing cycles guarantee consistent mechanical properties and predictable part performance. The net result is, less post-processing time, faster time to market, better part performance, increased 3D printing productivity and of course – the perfect part.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single click – rotate and push operation</td>
<td>External Dimensions (WDH) 21”x20”x32”</td>
</tr>
<tr>
<td>Validated resin presets for consistent part curing results</td>
<td>Internal Dimensions (WDH) 15.50”x10.75”x25.75”</td>
</tr>
<tr>
<td>30-60C heating capacity with 1C increments</td>
<td>Weight 110lbs (empty)</td>
</tr>
<tr>
<td>6 dual wavelength 365 + 405 nm LEDs</td>
<td>US 100-120 VAC 60 HZ</td>
</tr>
<tr>
<td>Total input power of 360W ensures quick and efficient cycles</td>
<td>EU 200-240 VAC 50 HZ</td>
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</tbody>
</table>
Performance Dental Resins For Serious Production

Nexa3D offers an expanding range of high impact functional materials for the NXE 200 3D printer that are tailored to unleash performance and productivity by taking 3D printing from dial-up internet to broadband speed, making our solutions ideal for serious production and same day prototypes.

**KeyModel Ultra**
Model material for thermoforming and removal die and model application.

**KeySplint Soft**
Splint material for splints, night guards and bleaching trays.

**KeyGuide**
Guide material for surgical guides.

**KeyTray**
Tray resin for creating customized impression trays.

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### Performance Dental Resins

<table>
<thead>
<tr>
<th>Properties</th>
<th>KeyModel Ultra</th>
<th>KeySplint Soft</th>
<th>KeyGuide</th>
<th>KeyTray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Elongation at Break/D638</td>
<td>5%</td>
<td>110%</td>
<td>26%</td>
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<tr>
<td>Tensile Modulus/ASTM D638</td>
<td>1700 MPa</td>
<td>2056 MPa</td>
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<tr>
<td>Ultimate Tensile Strength/D638</td>
<td>50 MPa</td>
<td>1100 MPa</td>
<td>62 MPa</td>
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<tr>
<td>Flex Modulus/ASTM D790</td>
<td>1940 MPa</td>
<td>1100 MPa</td>
<td>2400 MPa</td>
<td>1913 MPa</td>
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<tr>
<td>Flex Strength/ASTM D790</td>
<td>70 MPa</td>
<td>44 MPa</td>
<td>105 MPa</td>
<td>85 MPa</td>
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<tr>
<td>Flex Modulus/ISO 20795-2</td>
<td>135 MPa</td>
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<tr>
<td>Flex Strength/ISO 20795-2</td>
<td>2.6 MPa</td>
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<tr>
<td>Hardness (Shore D)/ASTM D2240</td>
<td>80</td>
<td></td>
<td>86</td>
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<tr>
<td>HDT @0.45 MPa/ASTM D648</td>
<td>32°C</td>
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<tr>
<td>Sorption/ISO 20795-2</td>
<td>&lt;18 μg/mm²</td>
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<tr>
<td>Solubility/ISO 20795-2</td>
<td>&lt;4.8 μg/mm²</td>
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<tr>
<td>Free Monomer Extraction</td>
<td>&lt;2.2%</td>
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<td>Cytotoxicity/ISO 10993</td>
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<td>Irritation/ISO 10993</td>
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<td>Sensitization/ISO 10993</td>
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<td>Biocompatibility/ISO 10993-5</td>
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<td>Biocompatibility/ISO 10993-10</td>
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</table>

**Warranty/Disclaimer:** The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. Nexa3D makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

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### Printer Hardware

- **Build Volume (xyz)**: 275 x 155 x 200mm (10.8 x 6.1 x 7.8 inch)
- **Max Resolution**: 4K resolution
- **Pixel Pitch**: 76.5 µm (0.0030 in)
- **Wavelength**: 405 nm
- **Build Materials**: UV Curable Plastics: KeyModel Ultra, KeySplint Soft, KeyGuide, KeyTray
- **Material Packaging**: 5kg jerry can

**Operating Environment**
- **Air Temperature**: 20-25°C (60-80°F)
- **Humidity**: RH below 70%
- **Electrical**: NA Version: 100-120 VAC, 50/60 Hz, Single Phase, B (NEMA 15-30R)
  EU Version: 210-230 VAC, 50/60 Hz, Single Phase, 4A (CEE 7/7)

**Dimensions (WxDxH)**
- **3D Printer crated**: 990 x 990 x 1905mm (39 x 39 x 75 inch)
- **3D Printer uncrated**: 710 x 710 x 1675 mm (28 x 28 x 66 inch)

**3D Printer Hardware**
- **Weight**: 3D Printer crated 250 kg (550lb), 3D Printer uncrated 160kg (350lb)
- **Materialise MagicsPrint for Nexa3D Software**: Full-featured toolset including auto orientation and nesting, auto support generation, mesh repair wizard, and part editing
- **NexaX v1 Software**: Easy build processing and Remote Printer Management: submission and queues, job statistics
- **Connectivity**: GigaBit Ethernet RJ-45 & WiFi Interface
- **Client Hardware Recommendation**: - 3 GHz multiple-core processor with 16+ GB RAM
  - NVIDIA GTX 1060 or AMD Radeon RX 480 or better graphics with 4+ GB RAM
  - 3 GB available HDD space, additional 10GB for files / cache
- **Client Operating System**: Windows 10, 64bit
- **Input Data File Formats Supported**: .stl, .3mf
- **Post-Processing**: Ships with basic part finishing tools accessory kit.
  - Max build requires wash basin & cure chamber with 300 x 180 x 480mm (12 x 7 x 19 in) capacity
  - Requires UV curing unit capable of > 2mW/cm² and 60°C (ideal 20mW/cm² and up to 120°C)

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**Note:** Not all products and materials are available in all countries - please consult your local sales representative for availability.

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