3D Printers for Audiology

Repeatable precision for quality assurance and patient comfort.
Being the creators of the precision desktop 3D printer market, we continue to offer precision, surface finish and product innovations designed to outperform any other.
"Asiga 3D printers have demonstrated excellent performance across our production sites globally and will be a valued partner as we continue to expand our digital production capabilities."
Sebastian Blachura, Technical Support Manager, DGS PL

"GN Resound is a global leader in intelligent audio solutions and we print with confidence on the Asiga MAX UV."
Mehdi Hoorzad, Process Development Director, GN Resound

"Asiga has become our 3D printing vendor of choice."
Christopher Mannen, Sr. Director Strategic Initiatives

"The Asiga Max has taken our production of THERMOtec® earmoulds to a new level. Asiga will continue to be our first choice when it comes to 3D printer systems."
Sascha Matulla, Lab Manager, HEBA-OTOPLASTIK

"Reliability, performance, ease of use, there is no doubt Asiga bring you the future in the present. As a specialist 3D trainer I know the 3D printer market and with confidence, can confirm that the ASIGA MAX UV is the best printer to help bring success to your business."
Xavier Martinez Rubios, Documentation & Training Manager, Microson
Our Process Monitoring Technologies explained. These technologies ensure every layer is formed accurately resulting in a reliable output for quality assurance and patient safety.

Smart Positioning System (SPS)
Asiga’s Smart Positioning System (SPS) is a series of positioning encoders that read the exact position of the build platform during every layer approach. This ensures that the next layer is exposed/formed only once the build platform target position has been reached. This is the first step in ensuring each layer is formed accurately.

1. Approach
   Platform moves to target position

2. Encoder’s Active
   Printer waits until target is reached

3. Target reached
   Image exposed

4. Separation
   Layer separated from film

Internal radiometer
An internal radiometer actively monitors LED intensity during every build ensuring the correct light exposure is delivered for each layer.

High power UV 385nm LED
Why 385nm UV LEDs? 3D materials cure faster at deeper UV wavelengths (385nm) reducing XY scattering and over-cure. The result is consistent accuracy, production reliability and the ability to process water-clear materials.

Small pixel and accurate pixel placement
Pixel size and pixel placement are crucial for reproducing digital data accurately. For audiology, we recommend pixel sizes between 60 - 80 µm depending on application.

Precise material curing
Our Open Material System allows for any suitable material to be printed. Material curing parameters for each material are generated by Asiga ensuring materials are cured accurately for repeatable results.
4K mode - 3D printing reimagined.

4K mode
Using pixel shifting technology, Asiga’s 4K mode reduces the pixel size to increase part accuracy and resolution without impacting build area or printing time.

Surface definition in
Native mode

Surface definition in
4K mode

4K mode is available on all PRO 4K 3D printers only.
Our end user features.
3D printing made intuitive and simple.

**Open Material System**
Over 380 optimized material profiles available via the Asiga Material Library online. Fully Open - print any suitable material from any manufacturer.

**Single Point Calibration**
Calibrate printer in under 60 seconds.

**30 Second Material Change**
Change-over materials in less than 30 seconds with no calibration required.

**Auto Power-Off**
Energy saving mode and auto-recovery.

**Environmental Control**
Onboard heater for reliable performance.

**Remote access and control**
Streamlined integration into your digital workflow.

**Touch Screen Display**
For greater user convenience.
3D printers for digital Audiology manufacturing
Minimum footprint, maximum productivity.

The Asiga MAX™ UV is the world’s most advanced 3D printer offering exceptional productivity in a small footprint. With 62µm HD print precision, the MAX™ UV is optimized for producing earshells, earmoulds, IEM’s and silicone earmoulds in both lab and clinical environments.

Annual production: 60,000 plus earshells / earmoulds per year.

### Product specification

<table>
<thead>
<tr>
<th>Build Volume X, Y, Z</th>
<th>119 x 67 x 76mm / 4.68 x 2.63 x 3 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel Resolution</td>
<td>62µm</td>
</tr>
<tr>
<td>Technology</td>
<td>DLP</td>
</tr>
<tr>
<td>LED Wavelength</td>
<td>385nm (high power UV LED)</td>
</tr>
<tr>
<td>Material Compatibility</td>
<td>Open Material System including materials from Dreve, Detax, Polyclure, Eggel, Deltamed &amp; more.</td>
</tr>
<tr>
<td>Production</td>
<td>Earshells, Earmoulds, Silicone Earmoulds, In-Ear-Monitors (IEM)</td>
</tr>
<tr>
<td>Software</td>
<td>Asiga Composer software, Lifetime updates included</td>
</tr>
<tr>
<td>File inputs</td>
<td>STL, SLC, STM (Asiga Stomp file format)</td>
</tr>
<tr>
<td>Network Compatibility</td>
<td>WiFi, WirelessDirect, Ethernet</td>
</tr>
<tr>
<td>Power requirements</td>
<td>100-200VAC, 50/60Hz, 2.0A MAX</td>
</tr>
<tr>
<td>System usage</td>
<td>260 x 380 x 370mm / 16.50Kg / 10.2 x 15 x 14.5 inches / 36.4Lbs</td>
</tr>
<tr>
<td>Packed usage</td>
<td>410 x 500 x 480mm / 19Kg / 16.1 x 19.7 x 18.9 inches / 41.8Lbs</td>
</tr>
<tr>
<td>Warranty</td>
<td>12 months manufacturers warranty</td>
</tr>
<tr>
<td>Technical support</td>
<td>Unlimited lifetime technical support included</td>
</tr>
<tr>
<td>Bundle includes</td>
<td>3D printer, Composer software, 1 Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit</td>
</tr>
</tbody>
</table>

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*Contact Asiga for information regarding material biocompatibility certification in your region.*
The ultimate in 4K DLP imaging technology.

The PRO 4K utilises the latest DLP imaging technology to achieve the largest print envelope in our range, with precision, reliability and speed for the most demanding production applications.

Annual production: 180,000 plus earshells / earmoulds per year (PRO 4K80 UV).

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### Product specification

<table>
<thead>
<tr>
<th>PRO 4K65 UV</th>
<th>PRO 4K80 UV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build Volume X, Y, Z</td>
<td>176.5 x 90 x 200mm / 6.94 x 3.5 x 7.87 inches</td>
</tr>
<tr>
<td>Pixel size - 4K mode</td>
<td>4µm</td>
</tr>
<tr>
<td>Pixel size - Native mode</td>
<td>65µm</td>
</tr>
<tr>
<td>Technology</td>
<td>DLP</td>
</tr>
<tr>
<td>LED Wavelength</td>
<td>385nm (high power UV LED)</td>
</tr>
<tr>
<td>Material Compatibility</td>
<td>Open Material System including materials from Dreve, Detax, Prodiary, Egger, Otikom &amp; more.</td>
</tr>
<tr>
<td>Production</td>
<td>Earshells, Earmoulds, Silicone Earmoulds, In-Ear-Monitors (IEM)</td>
</tr>
<tr>
<td>Software</td>
<td>Asiga Composer software. Lifetime updates included</td>
</tr>
<tr>
<td>File inputs</td>
<td>STL, SLA, STM (Asiga Stomp file format)</td>
</tr>
<tr>
<td>Network Compatibility</td>
<td>Ethernet, WirelessDirect</td>
</tr>
<tr>
<td>Power requirements</td>
<td>100-240VAC, 50/60Hz, 500 Watts (100V - 5Amp Max. 240V - 2.1Amp)</td>
</tr>
<tr>
<td>System using</td>
<td>465 x 540 x 1370mm / 140 kg</td>
</tr>
<tr>
<td>Packed using</td>
<td>900 x 700 x 1540mm / 205 kg</td>
</tr>
<tr>
<td>Warranty</td>
<td>12 months manufacturers warranty</td>
</tr>
<tr>
<td>Technical support</td>
<td>Unlimited lifetime technical support included</td>
</tr>
<tr>
<td>Bundle includes</td>
<td>3D printer, Composer software, 1kg Asiga material, 2L build tray, Asiga Flash post-curing chamber, calibration toolkit</td>
</tr>
</tbody>
</table>

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Printer Performance (PRO 4K80 UV)

- **Print capacity**: 70 earshells per build
- **Print speed - 180µm layers**: 50 minutes
- **Print cost per shell (1KG)**: 70.98 weight/material dependent
- **Annual output**: 180,000 plus units per year

*Contact Asiga for information regarding material biocompatibility certification in your region.*
Composer is the software interface to all our 3D Printers. Powerful, intuitive and free.

Automatic Support and Part Placement
For fast build processing and greater user efficiency

Build Time Estimator
Effectively schedule your production workflow

Multi-Stacking included
Maximize Z height usage and build multiple levels of parts

Simple & Intuitive
Submit builds within a minimal number of clicks

Dynamic Part Array
Place parts based on geometry to maximize available build area

Load and Process Multiple Builds
Manage multiple builds at the same time in a simple tab based interface

Remote Control
Access your printer via a simple web interface

Compatible with
Apple, Windows, Linux

www.asiga.com
Complete your digital workflow with our industry leading partners.

3D Scanning
Patient impression digitised

3D Design
Earshell and earmold 3D CAD designed

3D Printing
Manufacture / 3D print the Earshell or Earmould using certified biocompatible resins.

The product.
Open material system offering flexibility and the widest material choice of any system on the market. Asiga printers are compatible with the following material manufacturers.
Full compatibility with leading 3D scanning and digital design software providers.
Free and unlimited lifetime technical support. Local sales, service and support via our global reseller network.
Affordable Digital Manufacturing, it’s something Asiga invented.

In 2011, Asiga launched the world’s first LED based DLP 3D printer and started the affordable desktop stereolithography revolution which changed digital manufacturing forever.

Asiga won the MJSA’s 2012 Thinking Ahead award for best new technology and gained international recognition for innovative products which continue to lead their respective categories to this day.

Asiga designs and manufactures all products at its headquarters in Sydney, Australia. Asiga’s in-house mechanical, electrical, software and materials team ensures continued innovation and product improvement.

Contact us or one of our resellers to learn more.

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