



DLP STATION 5-365

1. Industrial.
2. Versatile.
3. Cost-Effective.

atum3D combines in-house expertise in the fields of hardware engineering, chemical material properties and coding software algorithms to create 3D excellence. The beating heart of atum3D is our industrial grade manufacturing hardware based on superior, open platform DLP technology. DLP Station 5-365 incorporates several proprietary technical benefits which translate into an exceptional feature set that fits a wide range of applications, from single piece manufacturing to series of thousands of parts.

atum 3D

3D Manufacturing Excellence

NEXT-LEVEL ADDITIVE MANUFACTURING

DLP Station 5-365 sets a new standard in cost-effective additive manufacturing, bridging the gap between prototyping and industrial production of functional parts. With DLP Station 5-365, atum3D unlocks the potential of a range of industrial and functional build materials -that previously could only be handled by a few high-end printers- for all.

HIGH SPEED MANUFACTURING

The all-new 365 nm state-of-the-art light source offers exceptional light intensity, which results in unprecedented build speeds. DLP Station 5-365 produces accurate parts with a high level of detail, thanks to the over 4 million pixels, new optics and a best-in-class contrast ratio. Create multiple parts in a single run thanks to the large build envelope.

FUNCTIONAL MATERIALS

For the first time, DLP Station 5-365 allows you to use high-quality 365 nm stereolithography materials from leading industrial suppliers in a mid-range printer. Thanks to our open resin platform, we'll gladly and objectively advise you on the resin options for your specific application.

CONTINUOUS RESIN HOMOGENISATION (STIRH)

DLP Station 5-365 features our Self-Traversing Integrated Resin Homogeniser (STIRH), which actively homogenises the resin inside the Resin Tray. STIRH ensures that resins with additives or particles are automatically agitated as required, resulting in parts being produced with consistent material properties. With STIRH, it's possible to produce parts using industrial grade component resins with DLP Station 5-365.

CONSISTENT ACCURACY

atum3D's proprietary algorithms optimise parts for production on DLP Station 5-365 by actively adjusting for chemical resin properties and printer calibration data. This leads to highly detailed, accurate results which, for example, can contain truly round openings in any direction.

CONVENIENT CALIBRATION & OPERATION

DLP Station 5-365 features the redesigned, self-levelling Build Platform S, which makes printer calibration a breeze. Convenient, single point fixation perfectly aligns the Build Platform S with the Resin Tray in seconds, which is imperative for optimal print results. Build Platform S allows you to replace the anodised aluminum build plate only, which saves time, material and costs. The Resin Tray and the STIRH Spatula are both swiftly installed and removed using quick release pins.

INTUITIVE AND CONNECTED

The operator controls DLP Station 5-365 using the large touch interface and USB port. Optionally, DLP Station can be connected using the LAN interfaces, which allows managing a single or multiple DLP Stations straight from atum3D's Operator Station preparation software.

EXTENSIONS FOR INTEGRAL MANUFACTURING

Parts created by DLP Station 5-365 are ready to be further processed. Post-processing automation is available using the optional Cleaning Station and Curing Station extensions, saving a lot of time and effort. The Finishing Toolkit includes tools to remove supports and finish parts.

TECHNICAL SPECIFICATIONS

DLP STATION 5-365

Intended use	Professional & Industrial
Technology	Digital Light Processing (DLP)
Colour	Blue
Projector resolution	2K Ultra HD
Print resolution (x,y)	70 µm
Build volume @ 70 µm (x,y,z)	190 x 107 x 250 mm
Z-axis resolution	6 to 500 µm
Z-axis guideway	High-end double linear guide
Spindle	High-end ground ball spindle
Build Platform S	Easy alignment mechanism, conveniently replaceable anodised aluminum Build Plate
Resin Tray	Quick release, PTFE-coated, robust, high chemical resistance
Third party materials	Yes
Resin Homogenisation (STIRH)	Yes
Print speed	Up to 150 mm/hr (depends on resin, resolution and STIRH)
Light source	LED
Wavelength	365 nm
Stand-alone printing	Yes
Automated projector control	Yes
USB port	Yes
Ethernet	Optional
AC input	110-240 V
Operating temperature	15° – 30° C
Weight	80 kg
Dimensions (closed) (WxDxH)	488 x 355 x 1682 mm
Dimensions (open) (WxDxH)	488 x 355 x 2103 mm



atum3D strives for 3-fold excellence. With proprietary **software, hardware** and an **open resin platform**, we offer exceptional **accuracy, speed** and **cost-effectiveness**. We aim to make your life easy with comprehensive **training, services** and **support**. Team up with atum3D and become a part of the next industrial revolution!

For more information and specifications, please call +31 (0)85 488 26 60 or visit atum3D.com.

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