



DLP STATION 5

1. Accurate.
2. Fast.
3. Versatile.

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 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.



3D Manufacturing Excellence

HIGH SPEED MANUFACTURING

Our specifically designed LED light source offers a very high light intensity, which allows DLP Station 5 to reach unprecedented build speeds. The large build envelope allows you to combine many different unique -or slightly different- parts in a single run without impacting build speed.

CONSISTENT ACCURACY

atum3D's integral expertise allows us to optimize the preparation of your part for production on DLP Station. Combined with a high resolution and uniformity, this leads to consistent, very accurate and detailed results which, for example, can contain truly round openings in any direction.

UNPRECEDENTED VERSATILITY

DLP Station 5 is available in various setups to fit your needs. Depending on your desired material properties, you select the appropriate wavelength. DLP Station 5 has a 405 nm light source, but is alternatively available with a 365 nm wavelength light source. Next, you can choose the level of accuracy required with a 50, 75 or 100 micron lens.

OPEN PLATFORM

The proprietary PTFE-coated resin tray with a very high chemical resistance allows you to use any available resin. Build materials mimic, for example, the properties of ABS plastics. If you tell us your application and desired material properties, we'll gladly advise you on the best material for the job.

FITS YOUR SPACE

DLP Station 5 has been designed with side-by-side operation of multiple machines in mind, controlled by a single operator, which allows you to easily scale up manufacturing capacity. The atum3D DLP Station is available as a compact Desktop model. Add the multifunctional base to bring the DLP Station to the optimal working height, offering additional storage space.

INTUITIVE AND CONNECTED

All consumables are easily switched out to allow efficient continuous operation. Connect to DLP Station 5 through the large, intuitive touchscreen interface or use its USB, LAN or Wi-Fi connection options.

EXTENSIONS TO MAKE YOUR LIFE EASY

Parts created by DLP Station 5 are ready to be further processed. Washing and curing can now be largely automated by the ultrasonic ethanol Cleaning Station and the powerful UV Curing Station, saving you a lot of time and effort. The Finishing Toolkit includes everything you need to remove supports and polish your accurate, high quality parts to a shine!

TECHNICAL SPECIFICATIONS

DLP STATION 5

Intended use	Professional
Technology	Digital Light Processing (DLP)
Color	Black
Projector resolution	Full HD 1920x1080 px
Print resolution (x,y)	50, 75 or 100 μ m
Print resolution change	Soft switch (lens change)
Build volume @ 50 μ m x,y,z	96 x 54 x 250 mm
Build volume @ 75 μ m x,y,z	144 x 81 x 250 mm
Build volume @ 100 μ m x,y,z	192 x 108 x 250 mm
Z-axis resolution	6 to 200 μ m
Z-axis guideway	High-end double linear guide
Spindle	High-end ground ball spindle
Build Platform	Easily changeable, durable anodized aluminum
Resin Tray	PTFE-coated, robust, high chemical resistance
Third party materials	Yes
Print speed	Up to 90 mm/hr (depends on resin and detail)
Light source	LED
Wavelength	405 nm
Alternative wavelength	365 nm
Stand-alone printing	Yes
Automated projector control	Yes
USB port	Yes
Ethernet	Optional
Wi-Fi	Optional
AC input	110-240 V
Operating temperature	15° – 30° C
Weight	38 kg
Dimensions (closed) (WxDxH)	488 x 355 x 1062 mm (Desktop, excluding base)
Dimensions (open) (WxDxH)	488 x 355 x 1483 mm (Desktop, excluding base)
Base (WxDxH)	488 x 355 x 620 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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