VALIDATED ULTRACUR3D® RESIN OVERVIEW

BASF
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atum 3D

3D Manufacturing Excellence

DLP STATION 5

TECHNICAL SPECIFICATIONS

Technology	Digital Light Processing
Light engine	Full HD 1920x1080 px
Print resolution	100 µm
Build volume	192 x 108 x 250 mm
Z-axis resolution	6 to 500 µm
Build Platform S	Anodised aluminum
Resin Tray	Quick release, coated
Print speed	Up to 130 mm/hr
Light engine	LED
Auto light control	Yes
USB port	Yes
Netfabb® support	Yes
Ethernet	Optional
AC input	110 - 240 V
Operating temp.	15°C – 30°C
Weight	38 kg
W x D x H closed	488 x 355 x 1062 mm
W x D x H open	488 x 355 x 1483 mm
Optional Base	488 x 355 x 620 mm

DLP STATION 5 EXZ

TECHNICAL SPECIFICATIONS

Technology	Digital Light Processing
Light engine	2K Ultra HD
Print resolution	70 µm
Build volume	192 x 108 x 450 mm
Z-axis resolution	6 to 500 µm
Build Platform S	Anodised aluminum
Resin Tray	Quick release, coated
Print speed	Up to 150 mm/hr
Light engine	LED
Auto light control	Yes
USB port	Yes
Netfabb® support	Pending
Ethernet	Optional
AC input	110 - 240 V
Operating temp.	15°C – 30°C
Weight	136 kg
W x D x H closed	588 x 461 x 1826 mm
W x D x H open	588 x 461 x 2454 mm
Base	Included

DLP STATION 5

Resin	Wavelength (nm)	Power (mW/cm²)	Curing time (s)	Voxel depth (µm)	Resin tray
Ultracur3D® EL 60	405	15	3,30	150	HIGH SPEED
Ultracur3D® EL 150	405	15	1,20	150	HIGH SPEED
Ultracur3D® EL 4000	405	15	1,20	100	HIGH SPEED
Ultracur3D® EL 4000 B	405	15	1,20	100	HIGH SPEED
Ultracur3D® FL 300	405	15	0,75	100	HIGH SPEED
Ultracur3D® ST 45	405	15	2,40	300	HIGH SPEED
Ultracur3D® ST 45	405	15	0,85	100	STANDARD
Ultracur3D® ST 45 B	405	15	2,50	100	STANDARD
Ultracur3D® ST 80	405	15	2,00	100	STANDARD
Ultracur3D® ST 1400	405	15	1,60	100	HIGH SPEED
Ultracur3D® ST 1400	405	15	4,70	300	HIGH SPEED
Ultracur3D® RG 1100	405	15	1,00	100	HIGH SPEED

DLP STATION 5 EXZ

Resin	Wavelength (nm)	Power (mW/cm²)	Curing time (s)	Voxel depth (µm)	Resin tray
Ultracur3D® EL 60	365	5	3,50	200	HIGH SPEED
Ultracur3D® EL 60	405	15	3,30	150	HIGH SPEED
Ultracur3D® EL 150	365	5	1,00	150	HIGH SPEED
Ultracur3D® EL 150	405	15	1,20	150	HIGH SPEED
Ultracur3D® EL 4000	405	15	1,20	100	HIGH SPEED
Ultracur3D® EL 4000 B	405	15	3,00	200	HIGH SPEED
Ultracur3D® FL 300	365	5	0,50	50	HIGH SPEED
Ultracur3D® FL 300	405	15	0,75	100	HIGH SPEED
Ultracur3D® ST 45	365	5	1,80	300	HIGH SPEED
Ultracur3D® ST 45	405	15	2,40	300	HIGH SPEED
Ultracur3D® ST 45	405	15	0,85	100	STANDARD
Ultracur3D® ST 45 B	365	5	4,00	100	HIGH SPEED
Ultracur3D® ST 45 B	405	15	2,50	100	STANDARD
Ultracur3D® ST 80	365	5	1,80	100	HIGH SPEED
Ultracur3D® ST 80	405	15	2,00	100	STANDARD
Ultracur3D® ST 1400	405	15	1,60	100	HIGH SPEED
Ultracur3D® ST 1400	405	15	4,70	300	HIGH SPEED
Ultracur3D® RG 35	365	5	1,00	50	STANDARD
Ultracur3D® RG 1100	405	15	1,00	100	HIGH SPEED

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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HIGH SPEED PRINTING

Our purpose-built LED light source offers a very high light intensity, which allows DLP Station 5-405 to reach unprecedented build speeds. The large build envelope allows you to combine different unique -or slightly different- parts in a single run without impacting build speed.

CONSISTENT ACCURACY

atum3D's integral expertise allows us to optimise part preparation 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 5-405 is available in 50 or 100 micron resolution versions to fit your accuracy needs. DLP Station 5-405 has a 405 nm light source compatible with an extensive range of resins from different suppliers.

OPEN PLATFORM

The proprietary PTFE-coated Resin Tray with a very high chemical resistance allows you to use any 405 nm resin. Resins are available with a wide range of properties, from flexible to heat resistant and from medical grade to impact resistant. DLP Station 5-405 can optionally be fitted with atum3D's new Self-Traversing Integrated Resin Homogeniser (STIRH), which actively homogenises the resin in the Resin Tray after each printed layer. Tell us your application and current material properties and we'll gladly advise you on the best material!

CONVENIENT CALIBRATION & OPERATION

DLP Station 5-405 features the redesigned, self-leveling 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 is swiftly installed and removed using quick release pins.

INTUITIVE, CONNECTED & SUPPORTED

Control DLP Station 5-405 through the large, intuitive touchscreen interface and the USB port. Optionally, you can operate the printer using the LAN interface. DLP Station 5-405 is optionally available with full workspace integration in Autodesk® Netfabb® modelling software.

FITS YOUR SPACE

DLP Station 5-405 has been designed for side-by-side operation of multiple machines, controlled by a single operator. It's available as a compact Desktop model. Add the newly designed base to bring the DLP Station 5-405 to working height, offering additional storage space.

EXTENSIONS TO MAKE YOUR LIFE EASY

Parts created by DLP Station 5-405 are ready to be further processed. Post-processing can be largely automated using atum3D's Cleaning Station and 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 5-405

Intended use	Professional & Industrial
Technology	Digital Light Processing (DLP)
Colour	Black
Projector resolution	Full HD 1920x1080 px
Print resolution (x,y)	50 or 100 µm
Build volume @ 50 µm (x,y,z)	96 x 54 x 250 mm
Build volume @ 100 µm (x,y,z)	192 x 108 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, conventiently replaceable anodised aluminum Build Plate
Resin Tray	Quick release, PTFE-coated, robust, high chemical resistance
Third party materials	Yes
Resin Homogeniser (STIRH)	Optional
Print speed	Up to 90 mm/hr (depends on resin and detail)
Light source	LED
Wavelength	405 nm
Stand-alone printing	Yes
Automated projector control	Yes
USB port	Yes
Autodesk® Netfabb® supported	Yes
Ethernet	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

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