

# **FIGURE 4 135**

# HIGH-POWERED, PRECISE PROJECTION PRINTING FOR TOOL-LESS MANUFACTURING



### HIGH SPEED, HIGH PRECISION 3D PRINTING SOLUTION FOR INDUSTRIAL PRODUCTION

The Figure 4 135 is a compact, purpose-built solution for high-throughput additive manufacturing, offering best-in-class precision, repeatability, production speed and material performance.

The solution is ideal for complementing or replacing injection mold tooling in plastics manufacturing. Manufacturers can deliver extremely precise and repeatable 3D printed parts suitable for all stages of prototyping, and end-use production parts.

The Figure 4 135's print engine and projector use high-power, low-distortion optics to deliver consistent pixel accuracy, delivering a long projector lifespan and repeatable output over time. Best-in-class part surface quality is achieved through 3D Systems' proprietary image processing technology, which dynamically adjusts grayscale pixels to ensure smooth, accurate results – every single time.

#### **UNLOCK COST SAVINGS AND EFFICIENCY**

Traditional mold tooling suits high volumes but comes with long lead times, high upfront costs, and expensive design changes. Digital workflows eliminate these barriers and the ongoing cost of mold storage and maintenance.

The Figure 4 135 can deliver true production-grade outcomes required to complement or replace traditional manufacturing operations.

Wide-ranging uses of Figure 4 135 can include:

- Rapid prototying
- Small batch production
- Custom end-use parts
- Bridge production while waiting for injection molds
- On-demand parts to reduce downtime

#### **FIGURE 4 135 - KEY FEATURES**

- Standard build styles with best quality print up to 70 mm per hour for most materials
- High-powered QHD projector, repeatably delivers maximum accuracy and long-term performance
- Option to manage custom projector auto-calibration
- Accuracy of +/- 50 μm < 25 mm, +/- 2 μm for every additional mm
- Exceeds typical industry standards for Aerospace, Medical, and Precision Manufacturing with a Cpk well above 2
- Fast Material changes < 3 minutes
- 7-inch touchscreen UI adjusts angles for visibility without glare; supports rapid task completion
- 3D Sprint software for file preparation, editing, printing, and management
- Fleet workflow optimization and control

Fast Print Technology
Fast curing, each layer cures simultaneously

Efficiently Sized Build Area, Smaller Pixel 136 x 76 x 165 mm (5.3 x 3 x 6.5 in), 50um pixel

Figure 4 Material Portfolio 20+ proven high performance and engineering

Auto and Manual Resin Fill Auto-fill resin pump or hand pour from a bottle

Material Delivery Module (MDM) Clean, easy access to high-capacity (9 kg) cartridges



High Power QHD Projector 5-watt, 2716 x 1528 resolution

> Supports Automated Workflow Hand free auto-door for easy access to print area, robot accessible, light mast for visual status

Security focused Conforms to the highest available cybersecurity standards (IEC-62443)

Fully Integrated 3D Sprint Software Single interface for file preparation, editing, and build management

Production Traceability
Built in bar code scanner for traceability by
part platform, machine ID, material batch
and time stamp

#### REPEATABLE OUT-OF-BOX ACCURACY

The Figure 4 135 delivers out-of-box precision with a Cpk > 2, eliminating the need for file-specific calibration; its perfect for scaling digital manufacturing operations and high mix, low volume environments.

## THE LEADING PORTFOLIO OF PRODUCTION GRADE RESINS

The Figure 4 135 pairs with engineering-grade resins to produce injection-molded-quality parts with superior smoothness. Choose from a growing portfolio of tough, castable, heat-resistant, and biocompatible materials—offering long-term mechanical stability indoors (8 years) and outdoors (2 years).

#### **END-TO-END FILE TO PRINT SOFTWARE**

The Figure 4 135 uses 3D Sprint software for streamlined file prep, editing, printing, and management - no third-party tools needed. Designed for production, it features optimized workflows and UI/UX to maximize build volume and printer efficiency.

## ADD AGILITY AND REDUCE COSTS WITH A DIGITAL WORKFLOW

Take the next step in modernizing your manufacturing operation by adding the Figure 4 135, a powerful solution for both prototyping and low-to-mid volume production, offering greater design flexibility, faster turnaround times and reduced costs – without the constraints of traditional tooling.

# W

Optical Flexural Fixture printed in Figure 4 Tough FR V0 Black



Backplane Connector printed in Figure 4 Tough 75C FR Black

#### WHAT IS IT FOR

- Direct production of end-use small plastic parts
- Flame retardant (FR) parts for electronics and connectors
- Thin wall components
- Prototyping and testing
- Housings, covers and snap-fits
- Sensors
- Knobs, grommets and spacers

# WHERE PRECISION AND REPEATABILITY ARE CRITICAL

- Electronics / Microelectronics
- Aerospace and Defense
- Medical Devices
- Optics / Photonics
- Automotive, Motorsport and EV
- Robotics & Automation





Momentary Socket Connectors printed in Figure 4 Tough 75C FR Black



Drone Motor Housing Components printed in Figure 4 Tough FR V0 Black

6 x 165 mm5.3 x 3.0 x 6.5 in 1.0 x 6.5 in)  or-based technology  2716 x 1528 resolution  oixel size  m < 25 mm, +/- 2 µm  ry additional mm  and 50 µm are standard  rd build styles with best quality print up  am per hour for most materials  ouchscreen, USB ports, ethernet and arers for bottle scanning and print in scanning  relative humidity  00 x 1360 mm (26.8 x 27.6 x 53.6 in)  67.5 lbs)  40 VAC, 50/60 Hz., Single  5 A	3D Sprint® Software  3D Sprint Client Hardware  Minimum Specifications	Easy build job set-up, submission, and job queue management; Automatic placement and build optimization tools; Part stacking and nesting capability; Extensive part editing tools; Automatic support generation; Job statistics reporting tools  • Intel® or AMD® processor with a minimum of 2.0GHz and 4GB RAM  • OpenGL 2.1 and GLSL 1.20 enabled graphics car; screen resolution 1280x960  • Dedicated Graphics Card: Nvidia GeForce GTX 285, Quadro 1000, AMD Radeon HD 6450, or newer  • 10GB of available hard-disk space; additional space may be red for cache. Temporary file cache requires about 3GB free disk space for every 100 million points.  • Internet Explorer 9 or newer  • Windows 8.1 ~ Windows 11 (64-bit)  • Other: 3 button mouse with scroll,
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		keyboard, Microsoft .NET Framework  4.8 installed with application
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IM, FCC, NRTL, ICES, SCC, KC		service teams for support.
		Network ready with 10/100/1000 base ethernet interface; USB port
4 high-performance, long-term stable, tion-capable photopolymer materials. 2 3D Systems Material Finder for le offerings.	3D Sprint Input Data File Formats Supported	STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP, MJPDDD
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