



**Dream It.  
Design It.  
V-Flash<sup>®</sup> It.**

FTI 230



**Build 3D Models at your desk.  
Fast. Convenient. Affordable.**



# Redefine Rapid. Rediscover Prototyping.

Desktop Modeling marks an exciting new capability in prototype technology. Designers, engineers and hobbyists using 3D CAD software can now verify their own concepts

earlier and more often. The V-Flash® Desktop Modeler produces

high

quality

plastic

models

right

at your

desk, breaking the barriers of costly outsourcing and long lead times.

“**verify your own concepts earlier and more often**”

Desktop Modeling accommodates

the progressive nature of design,

allowing you to verify your own

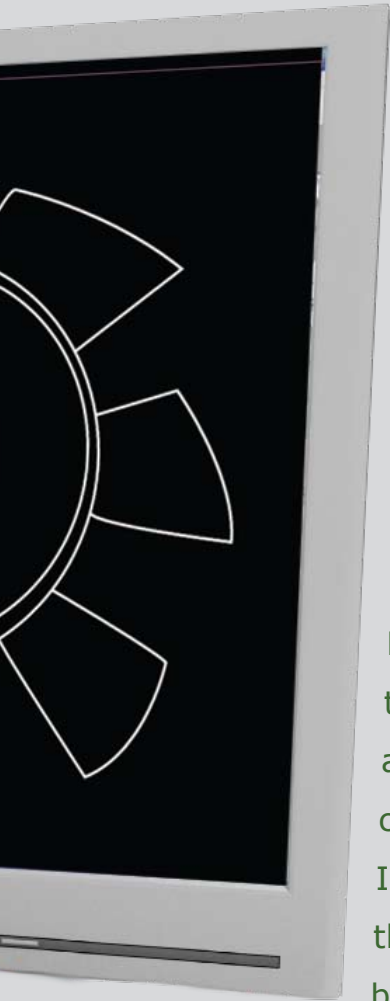
concepts earlier and more often.

Integrating frequent prototypes into

the design workflow produces the

best end-product possible with fewer

errors and faster time-to-market.

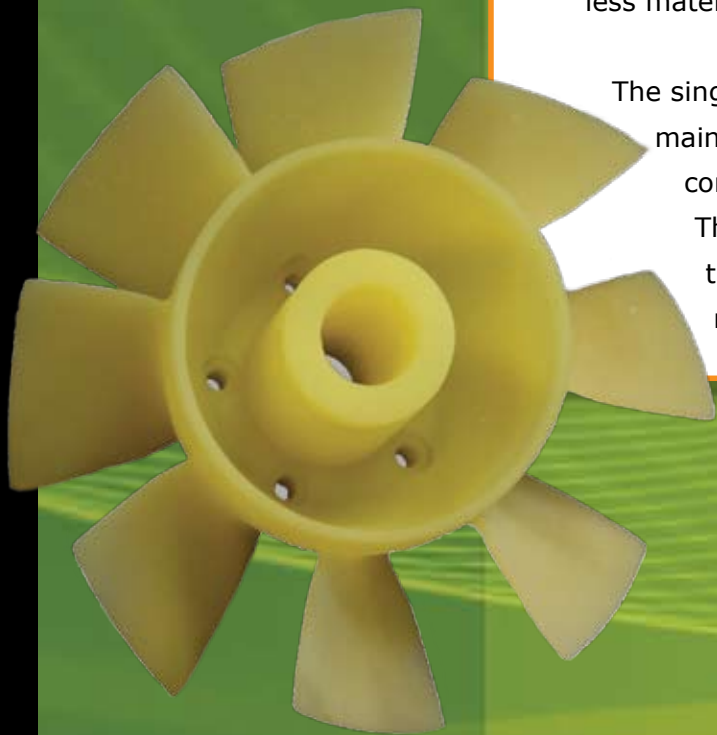


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With the V-Flash® Desktop Modeler, you get strong, durable prototypes with excellent surface quality and feature detail. The large build volume (9" x 6¾" x 8") enables the user to produce multiple models simultaneously without significant impact to the z-height build speed. Parts made from the V-Flash® Desktop Modeler are suitable for a wide range of applications such as:

- Proof of concept
- Functional testing
- Form/fit verification
- Quotation models
- Product mockups
- Marketing/sales needs



## CARTRIDGE

Film Transfer Imaging (FTI) technology is a cutting-edge Rapid Prototyping platform with breakthrough speed, part quality, and efficiency. A key part of FTI technology is the V-Flash® Cartridge. This closed, self-contained cartridge is a complete, high-tech solution that consumes two to three times less material than other 3D Modeling and Printing technologies.



The single-use V-Flash® Cartridge also reduces Modeler maintenance by incorporating material handling wear components into a high precision, disposable cartridge. The V-Flash® Cartridges may be exchanged during the middle of the build and partial Cartridges may be removed from the Modeler for use at a later time.

**Fast.**  
**Convenient.**  
**Affordable.**

## SUPPORT

- On-board software automatically updates via Internet
- Remote diagnostics enabled via Internet
- 3Dpedia – the "living" users guide
- Phone support from 3D Systems
- Local reseller support for on-site installation and service

## PROCESS

The V-Flash® Desktop Modeler's efficient build process- Film Transfer Imaging (FTI) technology- minimizes material consumption. The finished model has easy to break-away supports and can be sanded, painted, drilled, metal-plated, or glued.

## SYSTEM

The V-Flash® Desktop Modeler is designed as a plug-and-play computer peripheral that users can easily install, operate, and maintain.

Measuring just 26" x 27" x 31" in overall size, the V-Flash® Desktop Modeler can be conveniently installed right on your desktop. Using a network connection (LAN or crossover direction to PC) and a standard power outlet (100-240V AC), the system can be operational in minutes without the need for custom wiring or complex installation.





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### Modeler Specifications (FTI 230)

Modeler Size

26"W x 27"D x 31"H (66 x 69 x 79 cm)

Modeler Weight

145lbs. (66kg)

Max build size (xyz)

9" x 6¾" x 8" (23 x 17 x 20 cm)

Power Supply

100-240V AC

Power Consumption

1650W max | 300W standby

File Support

.stl

### Performance Specifications

Platform

Film Transfer Imaging (FTI) technology

Build Speed

Up to 0.5 (12.7mm) per hour

Ambient Noise

Under 60 dBA (measured 1m from the modeler)

Layer Thickness

0.004" (0.1 mm)

Minimum Vertical Wall Thickness

~ 0.025" (0.64 mm)

Resolution

Pixel size 0.009" (0.22 mm)\* with feature location of 0.002" - 0.005" (0.05 mm - 0.13 mm)

### Part Specifications

Finishing Options

Able to be sanded, painted, drilled, metal-plated, or glued

### Material Specifications (FTI-GN Material)

Density

~ 1.11 g/cm<sup>3</sup>

Tensile Strength

~ 5,000 psi

Tensile Modulus

~ 320 ksi

Elongation

~ 5%

\*Surfaces enhanced through patented FTI technology to reduce visible layer stepping providing improved surface quality

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PN V1107 Issue Date - Nov. 15, 2007