

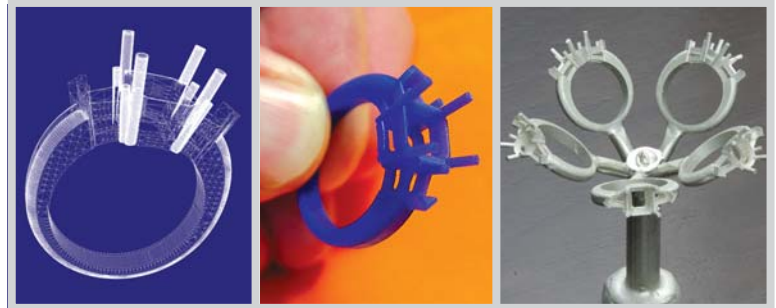


InVision™ HR 3-D printer

High resolution 3-D printing for jewelry and other precision casting patterns



Quickly, affordably and economically manufacture multiple small precision casting patterns or marketing models for jewelry and other applications.



A revolution in automated jewelry pattern manufacturing!

APPLICATIONS

- Print physical models or casting patterns from 3-D digital data
- Excellent model quality and feature definition
- Durable acrylic photopolymer material
- Blue model material color offers excellent feature definition and contrast for visual inspection
- Easy to use - no training needed
- Uses standard office power
- LAN/WAN networkable

BENEFITS

Automated part production — with a click of a mouse. Now, produce high-quality, production casting patterns or presentation models directly from jewelry design or 3-D CAD software — without time-consuming manual labor or the need for a dedicated operator.

Extraordinary quality parts from a 3-D printer. No other competitive RP or 3-D printing technology can match the combination of part quality, speed and ease-of-use that the InVision HR 3-D printer offers. Now, print high quality, durable models for design communication or production-quality patterns for direct casting.

Reduce or eliminate inventory cost. Offer unique benefits to your customers with the ability to custom design and manufacture jewelry, and reduce the need to hold expensive inventory.

Highly repeatable printing technology. Print one, dozens or hundreds of a part — they'll all look identical.

Present and sell your designs more effectively. Respond quickly to new business opportunities. Quickly and effortlessly produce marketing models that will impress your customer and help win the business.

No penalty for complexity. Unique build process can build designs of virtually unlimited complexity. With the InVision HR 3-D printer, you are only limited by your imagination.

Print multiple parts in a single build. Build multiple copies of a single part, or single copies of multiple parts for increased throughput (assuming same or lower z-height).

Network access. The InVision HR 3-D printer installs on a network for convenient access by anyone using the supplied InVision client software.

Global service. 3D Systems offers a variety of customer service plan options that provide fast, efficient on-site service from trained and certified field service personnel*.

* with purchase of a qualifying service plan.

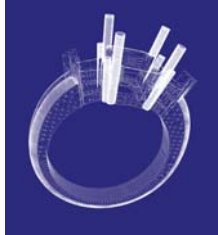
InVision HR 3-D printer

High resolution (HR) 3-D printer for jewelry and other applications where small, precise patterns or models are required.

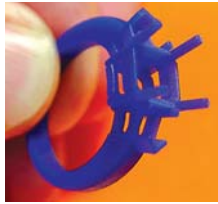
THE PROCESS

Its easy and fast to automatically manufacture one or more jewelry casting patterns with the click of a button:

First, design your jewelry or other object in CAD or other jewelry design software that can produce an .stl or .slc file.



After designing, simply print one or more copies of the file with the printer. Mix and match other designs if desired, and make as many copies as will fit in the build volume. Or, create and print a range of sizes or style variations.



After building, melt away the support material, assemble the casting tree, and flask cast.



The models also make fantastic marketing models, to present custom ring designs to your clients.

TECHNICAL DATA

Technology

Product	InVision HR 3-D printer system (InVision HR 3-D printer, software, VisiJet® material starter kit, warranty)
Printer	InVision HR 3-D printer
Materials	Model material - VisiJet HR-M100 Support material - VisiJet S100
Software	InVision client software
Warranty	1 year
Accessories (Not Included)	InVision Finisher

Printer

Technology	Multi-Jet Modeling (MJM). Thermal material application, with UV-curing
Resolution	656 x 656 x 800 DPI (xyz)
Maximum Build Volume	W127 x D178 x H50 mm (W5.0 x D7 x H2 in) (xyz)
Maximum Single Part Size	64.5 cm ² (xy) x 5 cm (z); 10 in ² (xy) x 2 in (z)
Certifications	UL certified, CE marked, CB certified
Electrical	100-127 VAC, 50/60 Hz, single-phase, 15A; 200-240* VAC, 50 Hz, single-phase, 10A; IT Power System Specification Compliant (Nordic countries)
Operating Temperature Range	18-28°C (64-82°F)
Noise	<60 dBA estimated (at medium fan setting)

Interface

Network Compatibility	Network ready with 10/100 Ethernet interface
Client Hardware Recommendation	1.8 GHz Pentium IV with 1 GB RAM (with OpenGL support and minimum 64 mb video RAM) or higher
Client Software OS Support	Windows XP Professional/2000/NT 4.0/Me/98
Input Data File Format	.stl; .slc (.slc support provided in InVision client software v3.3)

VisiJet HR-M100 Material Properties (Preliminary)

MEASUREMENT	CONDITION	VALUE:
Tensile Modulus	ASTM D638	112.4 Ksi (775 MPa) ±35
Tensile Strength	ASTM D638	3.48 Ksi (24 MPa) ±0.5
Tensile Elongation at Break	ASTM D638	15.6%
Impact Strength (Notched Izod)	ASTM D256	0.25 ft-lb/in (13.3 J/m)
Flexural Modulus	ASTM D790	16 Ksi (110 MPa)
Flexural Strength		6.1 Kpsi (42 MPa)
Specific Gravity		1.14 (cured)
Ash Content		HR-M100 - 0.01 % (average); S100 - 0.0 %
Material Colors		HR-M100 - Blue; S100 - Natural

Physical**

Printer (Crated)**	371 kg (817 lb)	W0.96 x D1.42 x H1.67 m (W38 x D56 x H66 in)
Printer (Uncrated)**	254 kg (560 lb)	W0.77 x D1.24 x H1.48 m (W30 x D49 x H58 in)
Material Packaging (Per Carton)	HR-M100 Model Material - 4 cartridges (order #23800-902) S100 Support Material - 8 cartridges (order #23126-902)	
Net Weight (Per Cartridge)	HR-M100 Model Material - approx. 495 g each S100 Support Material - approx. 405 g each	

* Requires a small external transformer (pn 23418-901-00); supplied by 3D Systems in the country kit.

** Weights and dimensions are estimated, nominal values and subject to change without notice. Accessory kit shipped separately.

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.



SourceGraphics™

1530 N. Harmony Cir.
Anaheim, CA 92807

Toll-free: 800.791.9042
Fax: 714.701.1505

Email: info@sourcegraphics.com
Website: www.sourcegraphics.com

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