



INVISION[®] HR 3-D Printer

Fast, cost-effective manufacturing of precision micro-casting patterns for jewelry, electronics and other applications.



APPLICATIONS

- Production-quality patterns for direct casting of jewelry and other small components
- Models for design communication, presentation, marketing or pre-selling
 - Jewelry
 - Electronic components
 - Consumer Products
 - Medical instruments/devices



InVision[®] HR 3-D Printer

FEATURES

- Fast, multi-jet build process
- Exceptional fine feature detail and surface finish
- Blue pattern material
- "Melt-away" supports
- "Plug and play" operation
- Network-ready
- Intelligent job queuing

BENEFITS

- Quickly and automatically produce precision patterns and models from 3-D CAD data
- Outstanding repeatability for short-run pattern production
- Compatible with direct investment casting
- Labor-free post processing
- No special training required
- Reduce product development time and costs

www.3dsystems.com

From CAD to InVision[®] HR printer pattern to production casting tree.

3D SYSTEMS CORPORATION

TRANSFORM YOUR PRODUCTS

INVISION[®] HR 3-D Printer

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 200 Support material - VisiJet [®] S100
Software	InVision print client software
Warranty	1 year
Accessories (not included)	InVision Finisher

Printer

Technology	Multi-Jet Modeling (MJM). Thermal material application, with UV-curing
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)
Resolution	656 x 656 x 800 DPI (xyz)
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)
Printer (Crated) (WDH)	371 kg (817 lb) 0.96 x 1.42 x 1.67 m (38 x 56 x 66 in)
Printer (Uncrated) (WDH)	254 kg (560 lb) 0.77 x 1.24 x 1.48 m (30 x 49 x 58 in)

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

Materials

Material	Model	Support
	VisiJet [®] HR 200	VisiJet [®] S100
Composition	Acrylic plastic	n/a
Color	Blue	White
Case Quantity	4 cartridges	8 cartridges
Net Weight (Approximate)**	500 g (1.1 lb)	405 g (0.9 lb)
Density @ 80 °C (ASTM D4164)	1.02 g/cm ³	n/a
Tensile Modulus (ASTM D638)	1724 MPa (250 KSI)	n/a
Tensile Strength (ASTM D638)	32 MPa (4.7 KSI)	n/a
Tensile Elongation at Break (ASTM D638)	12.3%	n/a
Flexural Modulus (ASTM D790)	1551 MPa (225 KSI)	n/a
Flexural Strength (ASTM D638)	45 MPa (6.6 KSI)	n/a

ASTM protocol followed for testing, except RH conditioning, which is not expected to substantially affect results.

* 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.



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For more information about
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www.3dsystems.com

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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.

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