INVISION® HR 3-D Modeler

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

www.3dsystems.com

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

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 Modeler

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

InVision® HR 3-D Modeler

TECHNICAL DATA

Technology

Product	InVision® HR 3-D Modeler system (InVision® HR 3-D Modeler, software, VisiJet® material starter kit, warranty)
Modeler	InVision® HR 3-D Modeler
Materials	Model material - VisiJet® HR 200
	Support material - VisiJet® S100
Software	InVision print client software
Accessories (not included)	InVision Finisher

Modeler

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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