

INVISION

3-D PRINTER

FACILITY REQUIREMENTS GUIDE



23400-M05-02, Rev. A
September 2004

This document applies to:

InVision 3-D Printer
InVision HR 3-D Printer



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**NOTE!**

The InVision 3-D printer and the InVision HR 3-D printer are part of 3D Systems' Multi-Jet-Modeling (MJM) product line.

Although the illustrations used in this guide are of the InVision 3-D printer, both printers have the same facility requirements.

What is a Facility Requirements Guide?

This booklet provides information you will need when selecting a facility location and planning for the installation of 3D Systems' InVision™ 3-D printer. This guide presents planning guidelines to facilitate fast, convenient installation and operation of your InVision 3-D printer.

In this guide you will find:

- » A description of the hardware, software, model material, networking components, and documentation that comprise the InVision 3-D printer "system"
- » An overview of the site requirements and recommendations in typical engineering and design work spaces. These issues involve basic access, electrical, and environmental considerations for configuring a safe and efficient work area
- » A checklist to assist you in ensuring that your facility is adequately prepared for installation of your InVision printer
- » Information on getting assistance from 3D Systems

Symbols Used in this Guide



This symbol designates the accompanying texts or figures as either a **NOTE**, a **CAUTION**, or a **WARNING**.

When accompanied by the word "**NOTE**", the text and symbol are meant to call attention to a practice whose implementation can save time or prevent subsequent inconvenience to the user.

When the symbol is grouped with text labeled "**CAUTION**", the intention is to point out a condition or practice otherwise not covered by another type of symbol that presents a hazard to equipment that may be in the immediate area.

If the word "**WARNING**" is listed with the symbol, the texts highlight a practice or condition otherwise not covered by another type of symbol that presents a hazard to both equipment and personnel that may be in the immediate area.



This symbol is used to warn of the presence of potentially HAZARDOUS VOLTAGE.

The InVision 3-D printer system

Both InVision 3-D printer models consist of the following components, providing these functions:

- » **The 3-D printer** – automatically outputs 3-dimensional models from digital data supplied to the printer in the required .stl file format, using a two-material process.
- » **InVision print client software** – provided with each InVision 3-D printer. This software provides users with the ability to set up and submit print jobs to the printer, and may be installed on additional users workstation (within your facility) at no additional cost per user. Each workstation should meet the minimum "Client Workstation Requirements" identified on Page 5 of this guide.
- » **VisiJet® build material** – as mentioned above, the InVision printer "prints" a 3-dimensional model utilizing two materials – VisiJet **model** material for production of the actual model, and VisiJet **support** material to produce the required support structures necessary to print a 3-dimensional model. 3D Systems' VisiJet brand materials are formulated exclusively for use with the InVision printer.

What Is Included With An InVision 3-D Printer Shipment?

An InVision 3-D printer ships with the following three containers:

- » One crated InVision 3-D printer (see Figure 1)
- » One carton, containing an accessories kit consisting of:
 - Two printing platforms (what the model is built on)
 - “Starter Pack” consisting of two cartridges of each of the two required materials - enough to get started printing without delay
 - One licensed copy of 3D Systems InVision print client software with integrated online Help and installation instructions
 - One multi-language InVision 3-D Printer *Operator's Guide* booklet
- » One carton, containing a region-specific InVision printer “country kit” consisting of:
 - One power cable kit consisting of a country-appropriate power cord, and a voltage warning document
 - (EU only) One external transformer kit, p/n 23418-901, for 200–240 VAC operation



Figure 1. The InVision 3-D printer

Facility Guidelines

This section provides details relating to site selection, site preparation and readiness of the facility to accept and install the InVision 3-D printer.

Discuss appropriate equipment locations with a 3D Systems’ representative, so that the equipment is located in a convenient, appropriate location based on your organization’s needs. When planning an installation, consider:

- » Space Planning
- » Weights and Measures
- » Electrical
- » Network Interface
- » Client Workstation Requirements
- » Material Storage
- » Material Cartridge Disposal

Space Planning

A suggested floor plan for a InVision 3-D printer installation is shown in Figure 2 (next page). Each InVision printer requires use of a dedicated circuit. Multiple InVision printers should NOT be located on a single circuit. Each location of the machine requires a standard wall power outlet within reach of the region-specific, 122 cm (4 ft) power cord supplied with the country kit.

Access area surrounding each unit

At least 1 m (3+ ft) of unobstructed floor space is recommended around each printer, to allow unobstructed access to the sidepanels and internal components during possible service calls. If this is not practical in your organization’s facility, allow approximately 1 m (3+ ft) of clear floor space directly in front and to the right side of the unit, so that it might be “rolled out”, should service be required. In addition, a minimum of 16 cm (approximately 6 inches) is recommended behind the unit.

NOTE!

The InVision 3-D printer jets a wax material to support the models during the printing process. To produce a finished model, this wax material must be removed. Typically, the support wax is melted from the model using a table-top convection oven, or a household roaster oven, then wiped clean of any residual wax material. We advise that while planning the space for the InVision printer, you also plan for a finishing area. Besides the space required for the heating device, include counter-top space for several models, a paper wipes dispenser, and a trash receptacle.



WARNING!

NEVER unpack, assemble, or connect any component of the shipment without the aid of a qualified, 3D Systems CSE or authorized 3D Systems' personnel. 3D Systems accepts no responsibility for damaged, defective, or incomplete systems uncrated by anyone other than 3D Systems' CSEs.

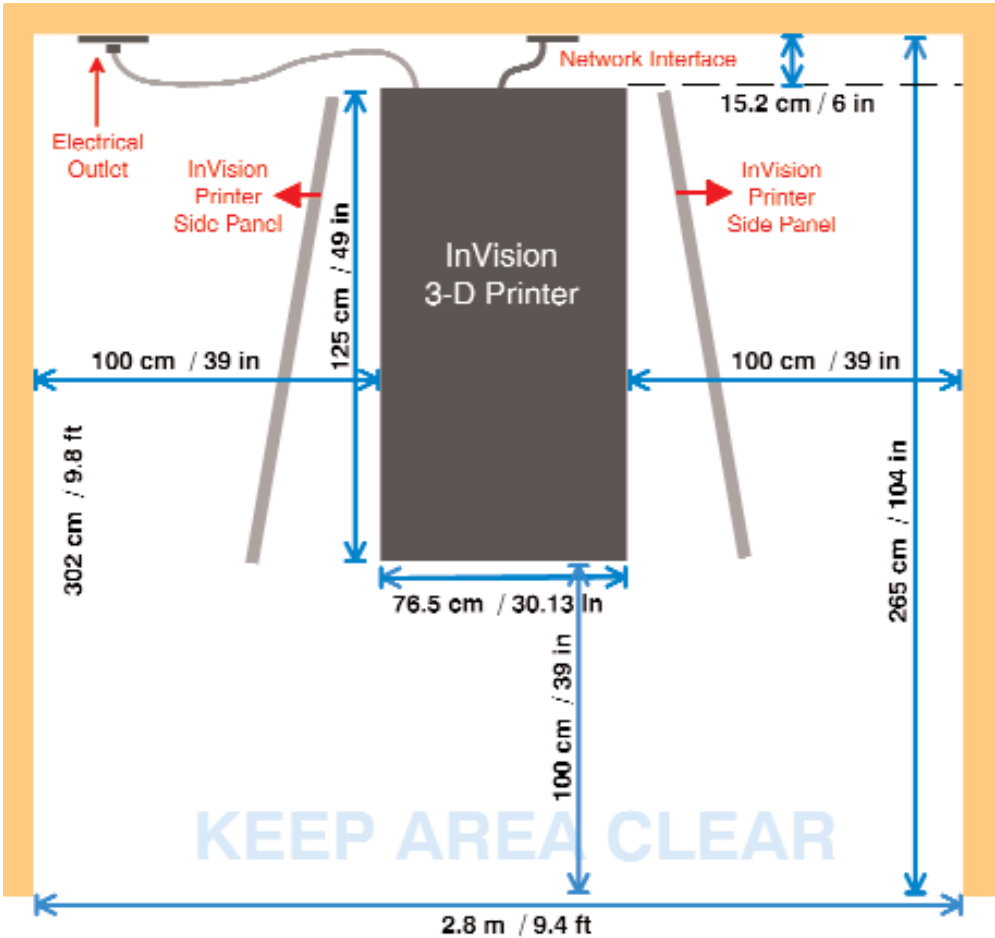


Figure 2. Recommended InVision printer placement guidelines

Unit Portability

The InVision printer is equipped with four caster-type rollers, as well as four integral threaded feet. Leveling can be adjusted using the threaded feet, and tightened in place to secure the printer.

Weights and Measures

The weights and measures of the InVision printer are:

	Weight	Dimension (H x W x D)
Crated	371 kg (817 lb)	168 cm (66 in) x 97 cm (38 in) x 142 cm (56 in)
Uncrated	267 kg (589 lb)	150 cm (59 in) x 76.5 cm (30.13 in) x 125 cm (49 in)

Table 1. Weights and Measures

Electrical

The AC voltage and current requirements for the InVision printer are:

- » 100 VAC, 50/60 Hz, 12.5 A
- » 115 VAC, 50/60 Hz, 10.0 A
- » 230 VAC, 50/60 Hz, 6.3 A (200–240 VAC operation requires 3D Systems' external transformer kit, p/n 23418-90X-XX, provided separately in the printer country kit.)

Note: The installation of the InVision 3-D printer shall comply with the National Standards and/or Electrical Codes of the country in which it is placed.

InVision Printer Power Considerations

During normal operation, the power usage of the InVision printer will not exceed the continuous current rating indicated in the Electrical section (above). A dedicated, surge-and-spike-protected electrical power circuit for each InVision printer should be provided that meets or exceeds the corresponding continuous current rating.

Whenever an InVision printer is switched on, a momentary surge current will be drawn. This surge current is approximately 300% of the continuous current rating. The line circuit breaker should be rated at the appropriate surge current rating.

A dedicated, surge-and-spike-protected electrical power circuit is strongly recommended for each InVision printer installed. No heavy equipment, especially those with large electric motors (greater than 1.5 kW or 2 hp) should be connected on the same circuit. Surges and spikes may damage the internal electronic components of the unit.

If located outside the United States, the InVision printer requires a wall input circuit minimally equipped with a 16 A, Type "C", European-style circuit breaker. Circuit breakers or other protective equipment rated for lower levels of protection are not recommended, and risk damage to the unit's internal electronic components.

Protected Power/Uninterruptible Power: Surge and spike suppression should carry a rating of at least 1000 joules, with a clamping voltage of approximately 300 VAC. Uninterruptible power, recommended especially in areas where circuits may be affected by lightning strikes, should be rated for 3 KVA, minimum. Loss of power while a part is printing can cause an unrecoverable error in that print job. Often, the machine and platform will require a reset and the print job will have to be restarted, resulting in wasted material and possibly lost time.

Network Interface

The InVision printer requires an Ethernet network connection to transfer print jobs from workstation(s) to the printer.

Network Specifications, Physical: The machine's internal controller provides an integrated, 10/100-megabit-per-second (Mbps) Ethernet network connection. This connection supports both the 10base-T and 100base-TX Ethernet standards. The controller's connector (an RJ45 socket located on the back panel) is designed for attaching an unshielded twisted pair (UTP) Ethernet cable.

When a facility's internal network is not 10base-T or 100base-TX, a media converter, such as a Coax to 10base-T will be required. Consult with your organization's network engineering or MIS staff to provide assistance with these requirements.

The InVision printer works on networks running TCP/IP ONLY. Each InVision printer MUST have a STATIC IP address on the network. Additionally, each InVision printer's subnet mask and default gateway must be known and available to 3D Systems' CSE (Customer Support Engineer) at the time of its installation, and should also be known by personnel installing the InVision print client software. They will need access either to the appropriate subnet mask or the individual IP address of each InVision printer to complete the workstation software installation, and to enable access to any InVision printer on the network.



CAUTION!

Not all networks have the TCP/IP installed. Make sure to have a Network Administrator check that TCP/IP is both installed and running as required PRIOR TO THE ARRIVAL of the InVision printer.

**NOTE!**

Although the InVision client software will run on less powerful computers, meeting the minimum recommended configuration will ensure acceptable performance.

Client Workstation Requirements

Before a model can be printed on the InVision printer, the model data file must be saved or exported to the industry-standard .stl file format, and submitted over the network (or null cable) for printing on the printer. The compact disk (CD) shipped with the InVision printer contains the InVision Print Client Software, which is installed on each intended users' workstation to allow users to select, preview, and submit print jobs; as well as manage the print queue (for designated administrators).

Prior to installing the software, ensure that the initially selected workstation meets the following minimum specifications. The specifications described represent 3D Systems tested minimum "baseline" configuration for using the InVision print client software. It is recommended that this workstation be further enhanced for maximum performance, particularly with more powerful processors and added memory.

For Microsoft® Windows® workstations, minimum recommendations:

Operating System: XP Professional or 2000 Professional.

CPU speed: Intel® Pentium® 4 Processor 2.8 GHz, 533 MHz FSB.

Main Memory: 1 GB DDR333 SDRAM.

Hard Drive: 40 GB ATA-100 IDE (7200 rpm) with 4 GB free space minimum.

Virtual Memory Paging File Size: 1 GB.

Video Controller: Full OpenGL, AGP, with 3D Graphics acceleration required. Card should have a minimum of 64 MB RAM on board.

Display: Capable of displaying 16-bit color at a minimum resolution of 1024 x 768 pixels per inch (True Color recommended).

Networking (all required): Ethernet, 10baseT or 100baseTx, Class A, RJ-45 connection, using TCP/IP (no other protocols supported).

CD-ROM drive.

Mouse: Two button mouse minimum (Intellimouse™ supported).

Material Storage

VisiJet model and support materials should be stored in a conveniently located storage cabinet in proximity to the InVision printer itself. A cabinet is recommended to protect against long term exposure to external UV light sources, including sunlight, overhead lighting, or other UV light sources.

Storage temperature of the material should not exceed the specified maximum of 35°C (95°F).

VisiJet model material should be stored away from strong oxidizing agents, such as hydrogen peroxide, bromine, or chromic acid.

More detailed information on the VisiJet model material and VisiJet support material, relevant applicable safety precautions and remediations, and specific storage and disposal requirements can be found in the Material Safety Data Sheet (MSDS), included in each case of VisiJet material shipped by 3D Systems. Your organizations' Facilities Manager (or equivalent) should maintain a copy of the two MSDS documents, and provide ready, convenient access to these documents. To obtain the VisiJet material MSDS from 3D Systems, contact a local 3D Systems' sales representative, contact 3D Systems' Customer Hotline within the U.S. at (800) 793-3669 (or from outside the U.S.A. at +1 (970) 257-4700), or by visiting 3D Systems website at www.3dsystems.com.

Material Cartridge Disposal

Used cartridges must be disposed of in a manner consistent with local and other applicable laws and regulations governing such materials. Refer to the MSDS sheets for this material prior to shipment of the InVision printer, and discuss your organization's methods for disposing or recycling of such material with your facilities manager, or contact 3D Systems' Customer Support Hotline for more information.

Operating Environment

Locate the InVision 3-D printer in a convenient location meeting the requirements specified in this document. As with most machinery, the InVision printer should be installed in a clean, dry, air-conditioned room. Avoid placing the InVision printer in any environment with airborne contaminants, including cigarette smoke, fumes, and mechanical particulates that can adversely affect the long term functioning of this equipment.

Air Conditioning

A number of the InVision printer's internal electronic components—as well as the InVision printer model material used to print models—are sensitive both to ambient temperature and, to some extent, humidity. In addition, the printing process itself can be temperature-sensitive within certain limits.

Room or environmental ambient operating temperature should be maintained within a range of from 18°C to 28°C (64°F to 82°F); optimally approximately 23°C (73°F). The facility air conditioning system where the InVision 3-D printer is operating should be capable of dissipating 1.0 kW (3412 Btu or 0.28 ton U.S. refrigeration) of heat. Ensure that any air conditioning ducting does not vent directly onto the machine.

Humidity

Humidity should be maintained at less than 50% non-condensing.

Lighting

The InVision printer is equipped with its own internally lit printing chamber, and backlit operating panel controls and display, so external lighting is not required to operate the printer.

Vibration and Shock

The InVision printer consists of many precision mechanical and sensing systems that are sensitive to vibration during model printing. To maximize the quality and accuracy of the models, do not locate the unit near heavy machinery or any source causing high vibration or shock (i.e. exterior walls near train tracks or airports).



NOTE

Each InVision printer undergoes an operational test at the factory, and shipped with a limited, residual amount of model and support material already in its internal reservoir.

Order a minimum of one to two cases of InVision model material and InVision support material for each InVision printer ordered to ensure adequate supplies of material and avoid model printing delays.



CAUTION!

Do not install an InVision printer in the same area as equipment that produces heavy electrical power, heavy vibration, or airborne contaminants that may adversely affect the performance of the InVision printer.

**NOTE**

Never unload, unpack, assemble, connect, or install 3D Systems' InVision 3-D printer without the aid of a qualified, 3D Systems CSE or other 3D Systems qualified representative. 3D Systems accepts no responsibility for damaged, defective, or incomplete systems uncrated by anyone other than a 3D Systems' authorized representative.

**NOTE**

Unless governed by prior arrangement, 3D Systems is not responsible for loading the InVision print client software on the user's workstation(s).

Thus, BEFORE THE PRINTER ARRIVES, ensure that your workstation is capable of supporting the requirements of both the client software and communication with the machine via your network.

Printer Advance Preparation Checklist

Review this list with a network administrator, MIS department, facilities manager or other responsible person within your organization. Complete and place a check mark next to each item. Once everything is complete, photocopy this page, and fax it to the number **checked or provided on the bottom of the inside back cover of this document**. If no number is provided or relevant, then fax to +1 970-257-4601 (U.S.A.).

Please complete the following (please PRINT):

Company Name: _____

Contact (Print full name): _____

Date faxed: _____

Telephone (with area code): _____

Email: _____

Please place a check in each box once that item is complete.

- ☐ Final installation site selected. The intended physical location for EACH InVision 3-D printer(s) should be selected in advance, and checked for adherence to the guidelines set out in this guide.
 - ☐ If required by the shipper, a method of removing the crate from the shipper's truck has been arranged (dock, pallet-jack, lift-gate, or forklift) and is available to transfer the crate(s) to the de-crating location. The location intended for de-crating has been selected, and complies with the guidelines provided in this guide.
 - ☐ NETWORK CONNECTION IS INSTALLED. An RJ45 (UTP, female connection jack) Ethernet network connection for EACH InVision printer that is to be installed at the delivery site must be installed, tested and functioning.
Number of 10BASE-T connections ____ **or**, Number of 100BASE-TX connections ____
 - ☐ Operating system and workstation configurations are compatible and meet the minimum requirements as stated in the "Client Workstation Requirements" section.
 - ☐ TCP/IP is installed and enabled.
 - ☐ Static IP address(es) has/have been allocated for each printer ordered. A permanent IP address on the network is assigned (presumably by a Network Administrator) to each InVision printer that is to be connected to the network.
 - ☐ Test each IP address by pinging it, or by temporarily connecting a network resource (such as a workstation or a printer) and "pinging" from another workstation on the network.
 - ☐ Dedicated, surge-and-spike-protected electrical power circuit for each InVision printer allocated (rated to withstand 1000 joules, clamping voltage of at least 300 VAC), meeting one of the following specifications:
 - ☐ 100 VAC, 50/60 Hz, 12.5 A
 - ☐ 115 VAC, 50/60 Hz, 10.0 A
 - ☐ 230 VAC 50/60 Hz, 6.3 A (200–240 VAC operation requires 3D Systems' external transformer kit, p/n 23418-90X-XX, provided separately in the printer country kit.)
 - ☐ Verify that no additional heavy equipment, especially with large electric motors (greater than 1.5 kW or 2 hp) are connected on the same circuit.
 - ☐ Provide uninterruptible power, recommended especially in areas where circuits may be affected by brown outs, power fluctuations or lightning strikes, rated for 3 kVA, minimum.
 - ☐ In Europe, use a minimum of 16 A, Type "C", European-style circuit breakers.
- Once each item is complete, an InVision 3-D printer will be scheduled for immediate shipment, and the shipment installation coordinated with the customer and 3D Systems CSE responsible for uncrating and installing of the system.

Please return a copy of this page by FAXING it to the appropriate fax number provided on the inside back cover.

Preparation For Shipment Arrival

The following topics should be arranged PRIOR TO THE ARRIVAL OF THE SYSTEM, to simplify installation of the InVision printer system. Refer to later sections of this guide for details of this procedure.

Make sure the following resources are available:

- » A forklift or similar, heavy-duty equipment required for unloading the InVision printer crate from the truck to the location where it will be uncrated and installed
- » Network connection(s) - 1
- » Power outlet(s) – a dedicated circuit to power the InVision printer
- » Storage cabinetry for extra InVision printer material containers and other consumables
- » At least one (1), networked graphics workstation or CAD/CAM/CAE terminal meeting the requirements described in “Client Workstation Requirements” (refer to Page 5).

Printer Installation

1. Remove the crate from the shipment carrier

The shipping company should have a lift-gate truck or otherwise be able to remove the crate from the truck. Once safely on the ground, a pallet jack may be used to move the crate to the de-crating location. The de-crating location should be in a convenient location, yet be located relatively close to the ultimate intended location of the unit. A 3D Systems' CSE will actually uncrate the equipment, and assist in moving the unit to its chosen location. Do not attempt to uncrate the printer. 3D Systems is not responsible for any complications or damage arising from unauthorized de-crating or movement of any uncrated InVision printer without the presence of a trained 3D Systems CSE.

Lift Equipment Specifications: All lift equipment must be rated for a weight-bearing capacity equal to, or greater than the crated weight of the InVision printer. Additionally, the pallet jack should be equipped with 1.8 m (6 ft) forks, minimum, and typically carry a rating of at least 454 kg at 106.7 cm (1000 lb at 42 in). The center of gravity for the InVision printer is located at slightly front center and slightly higher than the midpoint of its shipping crate.

2. Remove the printer from the crate (with the assistance of a 3D Systems CSE)

The InVision printer is shipped in a specially-designed custom crate that safeguards the unit during transit. A 3D Systems' CSE will perform the actual uncrating of the InVision printer. When planning for the installation of the machine, however, there are a few important points to consider with respect to “de-crating”:

Point 1. The InVision printer is designed to be moved by a hydraulic pallet jack or forklift WHILE CRATED. **If a forklift is used to move the InVision printer crate, please be advised that the two lower side panels of the printer must be removed to provide access to the subframe, otherwise the printer side panels will be damaged.** An area near the final installation site should be set aside for uncrating the machine (refer to Point #2, following). Once uncrated, the machine should be rolled into its intended final position on its own wheels, and leveled as appropriate with the included leveling pads.

Point 2. Passageways and doors between the unloading site, the uncrating site (if different), and the final installation location of the printer must accommodate the turning of the uncrated or crated printer (if moved while still crated). They should also allow additional room for any lifting equipment and personnel. Refer to Table 1 (Page 3), for machine and shipping crate dimensions.

Point 3. The InVision printer shipping crate should be returned after de-crating, using 3D Systems return shipper included with this product.



NOTE

Never unload, unpack, assemble, connect, or install 3D Systems' InVision 3-D printer without the aid of a qualified, 3D Systems CSE or other 3D Systems qualified representative.



CAUTION!

IF AT ANY TIME THE “UNCRATED” InVision printer is to be moved—ESPECIALLY if a forklift must be used—ALWAYS contact a 3D Systems' CSE PRIOR TO THE MOVE.

Moving this unit requires that the two lower side panels be removed. Exercise care in moving the machine. It is slightly susceptible to physical shock.

3D Systems accepts no responsibility for any damage to the machine, repairs that may result from accidental damage to the printer.

**WARNING**

Avoid accidental contact with potentially hazardous voltage, or circumstances that may cause a short or ground fault.

**NOTE**

Return the shipping crate to 3D Systems.

3. Move the unit to its designated location

Carefully, with at least one other person helping the 3D Systems CSE, slowly roll the unit to its desired locations. One person should guide the machine from the front, and another person behind the machine pushing it forward. Be cautious to avoid any sudden jarring or other impacts, and do not hit walls, doorways, or other obstacles during movement.

4. Connect to the network

Follow the guidelines outlined in the section called “Network Interface” (Page 4) of this guide for further instructions.

5. Power up the printer and test

A 3D Systems CSE will power up the system and perform diagnostic testing to confirm that the printer is operating normally. In addition, the 3D Systems CSE will ensure that the single designated workstation selected to load the client software on is able to communicate and successively send a print job to the printer over the network.

6. Use the InVision 3-D printer

The InVision printer can now be used to produce models.

7. Return the shipping crate to 3D Systems

InVision printer system shipping crates are designed to allow fast, easy removal of the product, and are designed to be reused to minimize shipping container waste. In many locations, 3D Systems may request that you recycle this shipping material by including a return 3D Systems' shipper with the shipment. You may then return the printer crates for reuse without cost to the customer.

Limitation of Liability

3D Systems is not, in any event, liable for any damages, including lost profits, cost of cover, or other special, incidental, consequential, or indirect damages arising from the use of this document, however caused and on any theory of liability. This limitation will apply even if 3D Systems or an authorized dealer or representative has been otherwise advised of the possibility of such damage. This document, in whole or in part, may be changed or modified at any time at the sole discretion of 3D Systems, without notice.

Thank You

3D Systems is confident that you will be very satisfied with the purchase of your InVision 3-D printer, and enjoy the ability to produce high quality models from your 3-D digital data. We are dedicated to developing a relationship that extends beyond the terms of the sale. Please take the time to contact 3D Systems with questions, comments or suggestions about the InVision printer, or other products or services. 3D Systems strives for higher quality, better products, and comprehensive services to benefit our customers.

Contacting 3D Systems

For general information or assistance, contact 3D Systems' corporate headquarters at:

3D Systems, Inc.
26081 Avenue Hall
Valencia, California, USA 91355-1241
Telephone: (661) 295-5600
Fax: (661) 295-7181
Web: www.3dsystems.com
Email: moreinfo@3dsystems.com

For information regarding site preparation or subsequent service, contact:

3D Systems Technical Support Center
805 Falcon Way
Grand Junction, CO 81506 USA
Telephone: (800) 793-3669 (in the USA and Canada)
or (970) 257-4700 (from outside the USA)
Fax: (970) 257-4601

For Customer support

North America (800) 793-3669 3DWW-MJMCustomerSupport@3DSystems.com
Europe +49 (0) 6151 357-357

For localized service or support, contact the appropriate 3D Systems regional facilities listed below:

	<u>Telephone</u>	<u>Fax Number</u>	<u>Email</u>
France	+33 1 69351717	+33 1 69351718	hotline.fr@3dsystems.com
Germany	+49 6151 357 357	+49 6151 357355	hotline.de@3dsystems.com
Hong Kong	+852 2923 5077	+852 2574 4200	asianinfo@3dsystems.com
Italy	+39 039 68 904 00	+39 039 68 81156	Marketing.IT@3dsystems.com
Japan	+03 5451 1690	+03 5451 6630	japaninfo@3dsystems.com
Portugal	+33 1 69 35 17 17		
Spain	+33 1 69 35 17 17		
UK	+44 1442 282600	+44 1442 282661	marketing.uk@3dsystems.com

Contact the following Account Representative:

Name: _____

Address: _____

Tel: _____

Fax: _____

Returning the Advance Preparation Checklist?

Return the completed checklist via the method chosen below:

- ☐ Fax to the Account Representative's fax number (above):
- ☐ Fax to the _____
office fax number (see above)
- ☐ Fax or mail to: _____

ACCOUNT REPRESENTATIVES

PLACE BUSINESS CARD

HERE AND STAPLE

TO DOCUMENT

