

THINK IT... DESIGN IT... BUILD IT

# GRAPHTEC

## The XD700 3D Printer

“3D printing as it should be”



### The XD700 3D Printer

#### The Freedom You've Been Waiting For

The XD700 3D Printer from Graphtec Corporation is a desktop 3D printer that actually fits on your desk. The XD700 is an office friendly, network compatible peripheral that allows you to build your three-dimensional models directly from 3D CAD data, right at your workstation.

**No Mess, No Fuss, No Chemicals!**

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**Weeks, even months can be trimmed from your development cycle by putting model creation in the hands of the creators - the designers and engineers themselves. The XD700 3D Printer helps you save time and reduce costs while improving the overall quality of the products and parts that you design.**

### **Affordability**

The XD700 3D Printer carries both a low initial investment cost and low cost of ownership. There are no post-built curing processes required and no need for dedicated person-



nel. In addition, the price of the XD700 consumable materials allows for a low model build cost.

### **Ease of Operation**

Anyone can operate the XD700 3D Printer. The model build process requires no intervention and the replacement of consumable materials can be done by anyone in the office because it is no more complicated than changing cartridges on a copy machine or regular 2D printer. The XD700 creates no ambient dust or residue so there is no cleanup required after each build.

### **Improved Design Communication**

With Graphtec's unique XD700 3D Printer, it is now possible to produce more models, more often on your own schedule and at a lower cost. With the XD700, early stage concept modelling and multiple design iterations are no longer cost prohibitive. The immediate feedback from colleagues and customers saves valuable time in the early identification of design issues, and ensures a smooth transition to development. The XD700 will significantly trim your design and development cycle by improving communication throughout the process.

### **Confidentiality**

With the XD700, organisations can safeguard confidential, proprietary design information by keeping model creation in-house, in-department and in-office.

### **Durable Models**

Using Plastic Sheet Lamination, the XD700 3D printer produces rugged yet flexible models made of SolidVC®, a rigid PVC based plastic. The accuracy, strength and durability of the parts produced on the XD700 make them perfectly





suitable for all stages of the design cycle, from concept verification through form, fit and functional testing, including snap fit. Models can be machined, drilled, finished and painted, and they show no distortion over time.



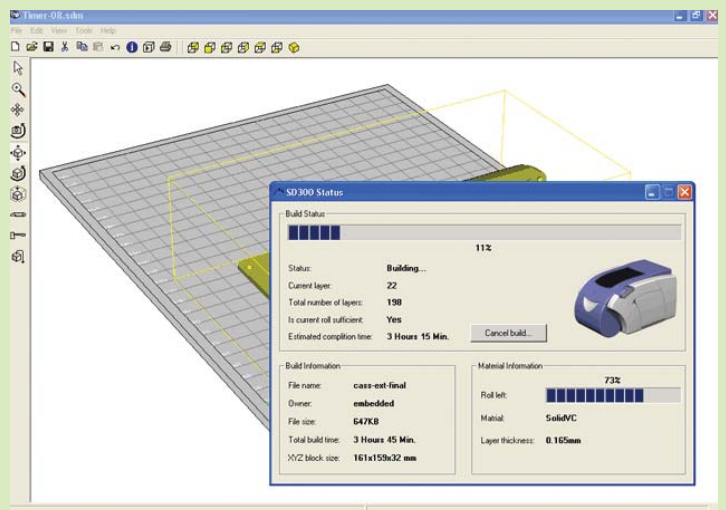
## SDview Software

The XD700 3D Printer's robust front-end software, SDview®, is an intuitive, feature-rich, windows-like application that supports both STL and 3DS input files. SDview® enables the user to manipulate and edit the parts prior to build.

The software also gives the user the ability to split large models into two or more component parts, if necessary, as well as to position multiple parts on the virtual table for simultaneous build.

Upon completion of the model preparation, the user

then simply clicks the "Build" button to immediately start the model creation process. Once the process starts and the data transfer to the XD700 begins, the user's computer is freed for work on other applications. The user can monitor the build status and the consumable material levels from the workstation throughout the entire build process.



# GRAPHTEC - XD700 3D Printer Specifications

## General Specifications

<b>Technology</b>	3D printing - plastic sheet lamination
<b>Build material</b>	PVC
<b>Material color</b>	Amber (transparent)
<b>Accuracy</b>	+/- 0.2 mm (XY)
<b>Layer thickness</b>	0.165 mm (Z)
<b>Maximum model size</b>	170 x 220 x 145 mm (XYZ)
<b>Dimensions</b>	W450 x D725 x H415 cm
<b>Weight without cartridge and roll</b>	30 Kg
<b>Weight with cartridge and roll</b>	40 Kg
<b>Power consumption</b>	300 VAC, 47/63 Hz, 100-120/200-240 VAC

## SDview® Software

<b>Language</b>	English
<b>Input File Formats Supported</b>	STL, 3DS
<b>Output File Format</b>	SDM (Proprietary)
<b>Platforms Supported</b>	Windows 2000, XP

## PC Minimum Requirements

<b>Processor</b>	Pentium III, 500Mhz
<b>RAM</b>	128MB
<b>HD</b>	10MB
<b>Interface</b>	USB

## SolidVC® Material

- Rigid polyvinyl chloride compound
- Constructed of a plurality of rigid PVC sheets
- Bonded with liquid adhesive

Properties	Condition	Value
<b>Appearance</b>		Transparent, amber
<b>Density, g/cm<sup>3</sup></b>	25 °C	1.38
<b>Tension strength, MPa</b>	ASTM D 638 25 °C	40 - 50
<b>Elongation at break, %</b>	ASTM D 638 25 °C	30 - 100
<b>Tensile modulus</b>	MPa ASTM D 638, 25 °C	1200 - 2000
<b>Heat deflection temperature, °C</b>	ASTM D 648 @ 264 psi	45 - 55

\*Specifications are subject to change

## GRAPHTEC

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