

## DATA CONVERSION FORMATS

Data conversion software is used for the transfer of digital map data between different systems, or other manufacturers' proprietary formats. They can be grouped according to the type of data for which they are utilised – vector data, Digital Terrain Model (DTM) and image data, and scanner data.



### *Product description*

Many users require the ability to input and output data from and to a variety of sources, and the data must be in a form which can be easily read and written by different systems. The availability of a suite of software modules gives users this much-needed flexibility, and the modules can be mixed and matched to suit individual requirements.

The vector and raster data conversion modules are command-driven, the commands having a standard syntax which gives each module a similar 'look and feel'. The user has the options of input or output from and to disk or magnetic tape for the selection of specific files, and, for vector data, features and attributes for transfer. Translation tables are utilised by several of the vector data conversion modules to describe how data in one system is to be represented in the other.

Data conversion modules for the input of scanner data have a menu-driven interface, utilising the multiple windowing capabilities of a graphics workstation.

### *The Benefits*

- The wide range of format conversion modules allows users to exchange data as widely as possible, increasing the power of existing systems
- Laser-Scan continually updates format conversion software, ensuring that the latest data can be read into the system
- Modules are fully integrated with other Laser-Scan GIS and map production products for increased capability

## *Data conversion modules*

### *Laser-Scan Limited*

*Cambridge Science Park,  
Milton Road,  
Cambridge CB4 4FY*

*Tel: (0223) 420414  
Fax: (0223) 420044  
Telex: 817346*

### **Vector data**

ESRI Arc/Info EXPORT	IHO CEDD
USGS Standard DLG-3	Auto-CAD DXF
Sicad GDB	Synercom Informap
Kern CAM	Marine Geophysical MGD77
Military Survey MSDS	NTF levels 1, 2 and 3
Ordnance Survey OSTF	Intergraph SIF
SysScan DST	

### **DTM Data and image data**

Defense Mapping Agency DTED	USGS DEM
NTF level 0	IGN (France) MNT
I <sup>2</sup> S System 500	SPOT
Landsat TM	

### **Scanner data**

ANAtch binary and greyscale	CCITT g4 (TIFF header)
Dai-Nippon	HELL MDP and MCE
Joyce-Loebl	Scan-Graphics RLE
Scitex R2XX colour separations	Skantek Energy Images
SysScan LSC and	Tangent
Kartoscan	
Vidar binary	

## *Requirements*

Data conversion format options can be used with *LAMPS* version 3.4, *VTRAK* version 2.1d, *METROPOLIS* version 1.2 and *HORIZON* version 1.2 or higher.

Laser-Scan *LAMPS* map production and *VTRAK* data capture systems are designed for the full range of map production tasks – data capture and input, map manipulation, cartographic enhancement and high quality output.

Laser-Scan Geographic Information System (GIS) products are *METROPOLIS* – designed for applications such as property management, land charges, market analysis and emergency planning, and *HORIZON* – for environmental applications including terrain analysis and telecommunications planning. These products integrate vector and raster mapping with a relational database and provide a full range of analytical tools within a state-of-the-art menu interface. Products may be customised to meet the exact needs of different users.