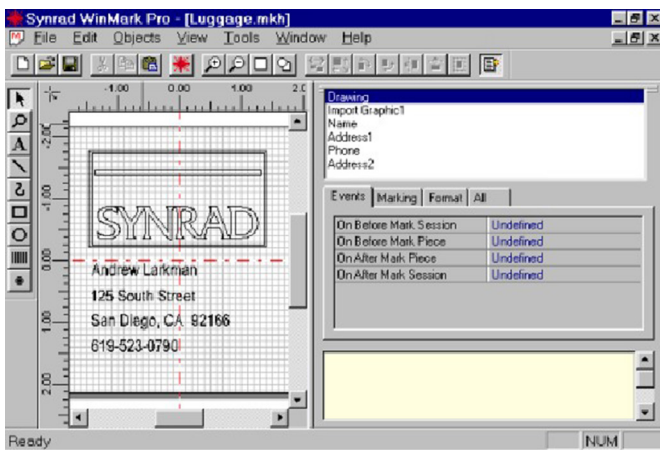# WinMarkpro® Laser Marking Software

Want to laser mark a logo contained in a graphic file? Mark a product ID number encoded in a bar code? Mark a date code? Automatically mark a part with a serial number that is read from a computer file then report back to another computer that you just marked it?

WinMark Pro laser marking software makes all of these applications fast and easy. Developed to work exclusively with Synrad scanning systems, WinMark Pro can add serial codes on-the-fly, apply unique bar code data on every piece, and apply intricate graphics on products with ease.

WinMark Pro is included with every Synrad Scanning System, and updates are available via website downloads. WinMark Pro is a Windows® based software, and includes all the type fonts available through Windows. With more than a dozen embedded barcode systems, several stroke fonts for high-speed marking, and the availability to import high-resolution raster and vector graphics, WinMark Pro covers a wide variety of laser marking applications.

Thin material cutting - WinMark Pro can also accommodate detailed cutting of thin materials. Making precise, detailed laser cuts on electronic thin films, paper, plastics, and thin metals can be accomplished with WinMark Pro and the proper laser and scanning head combination. Contact Synrad for more details.

Step 1: Build the application with the Drawing Editor

Powerful, property driven UI features a WYSIWIG drawing editor with intuitive toolbars for quick access to a wide range of features to control nearly every aspect of the mark. On screen help for all object properties guides users through the drawing build process, password protected editing ensure marking quality. Virtual laser marking feature ensures precise marking alignment by placing high resolution scans of your marking platform in the drawing editor to simulate the exact placement of your laser mark.

ActiveX control - available in WinMark Pro to customize and control every aspect of the laser mark. Control marking form any ActiveX compatible environment, includes MS Access, Visual C++, Visual Basic, Delphi, MS Word, and more. Users can load any customized drawing through ActiveX.
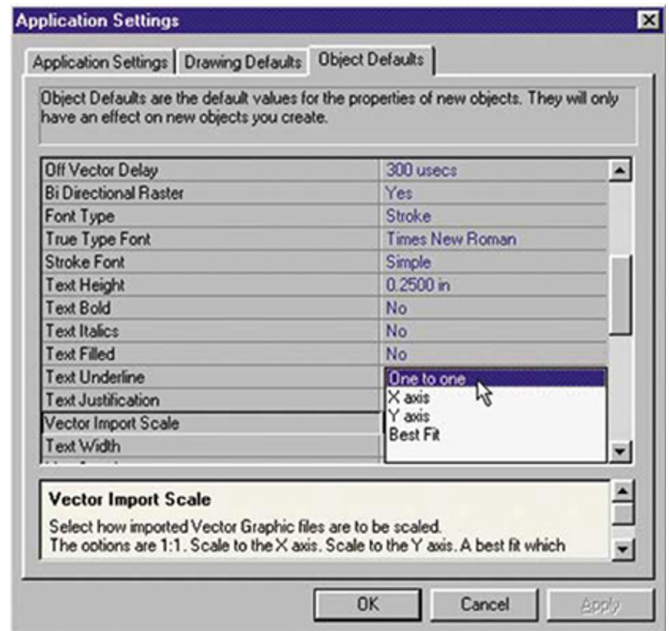
Step 2: Mark the part with the Launcher

Powerful properties window with built-in self-help enables easy modification of any marking parameter. Large library of type fonts, barcode systems, and multiple fast stroke fonts provide a wide range of coding capability. Velocity control by object up to 300 in./sec. for fast throughput, plus object scaling, rotation, and mirroring for added marking flexibility. Full control of object marking with adjustable multi-pass control, marking resolution, and timing delays. A quick, user friendly launcher application included for quick launching of marking programs.

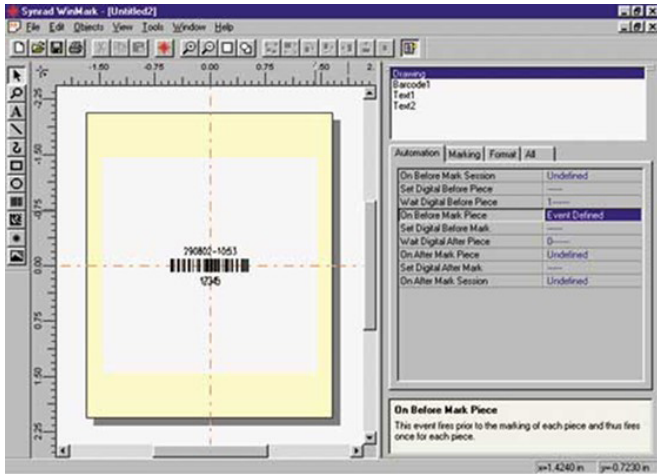# Key WinMarkpro Software Features

Active Mark technology

WinMark Pro is an ActiveX control empowering you to create high performance stand-alone laser marking applications using the most potent development suites you're already familiar with, including Microsoft Access, Office, Visual Basic, Visual C++, and Delphi. Laser mark serial numbers directly from your Access database application.
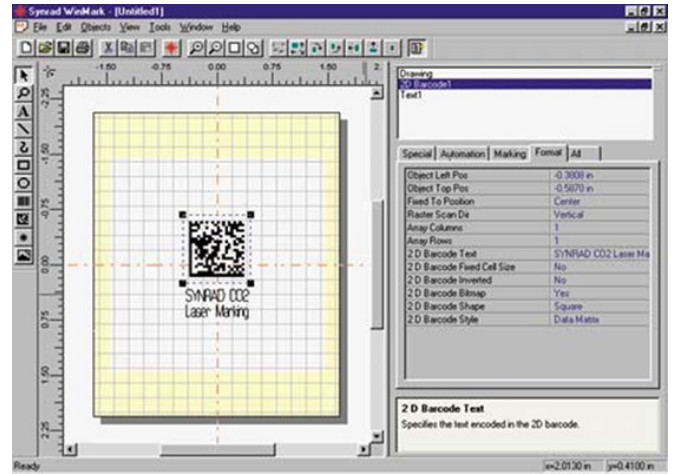

Scale imported vector graphics

Use "Best Fit" to import and mark a logo at 66% of your lens field size, or choose "One to One" when precise dimensional drawings must be marked accurately.

Control marking from your process automation controller

Set/Clear WinMark Pro inputs or monitor WinMark Pro via operator input bit status. Define Event Builder commands to run before or after each piece or mark session.
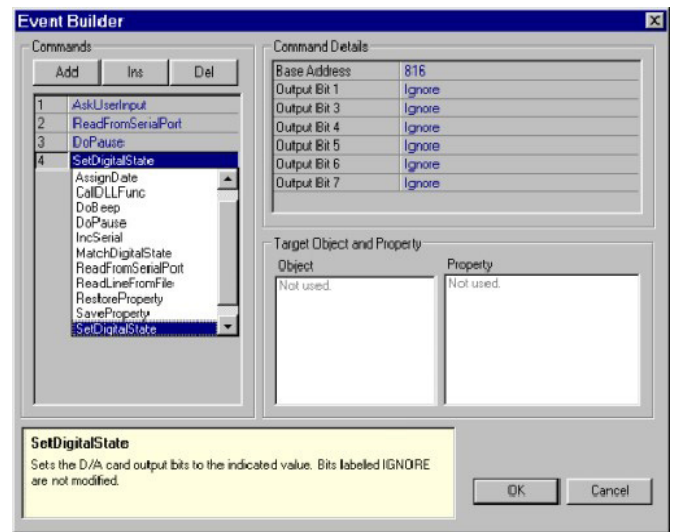

Create a 2D Bar Code then add human-readable stroke text

Send new bar code data to WinMark Pro via operator input or through an RS-232 serial port. Automatically increment serial numbers or add customized date and time information.

Ungroup imported vector graphics

Fine-tune your images by adding or deleting lines, circles, polygons or vary marking properties such as Power, Velocity, Resolution, etc. by object.

Event Builder

WinMark Pro enables interfacing with parts handling equipment and other computers for easy automation control.

WinMarkpro Software Features

User Interface & Drawing Editor

- Powerful, property driven user interface
- WYSIWYG drawing editor
- Fast file save and open
- Easy to use tool bars for quick access to all features
- Powerful property list to control every aspect of the mark
- On screen quick help for all object properties
- Zoom in, zoom out, and panning
- Inch, millimeter, or centimeter units
- Configurable drawing rulers
- Adjustable drawing grid (spacing, offset, etc.)
- Password protected editing
- Unlimited multilevel undo and redo
- Mouse or keyboard control and positioning
- Launcher application included for quick launching of mark programs
- Digital scope application included for igital I/O testing
- Virtual Laser Marking (place high resolution scans of your marking platform on the drawing editor for precise alignment)

Objects That Can Be Marked

- Lines (straight and freehand)
- Polygons (rectangles, etc.)
- Circles and ellipses
- Arcs (start and end angles)
- Raster Filled Text (TrueType)
- Stroke and Outline Text (high speed)
- Numerous Barcode formats
- Laser spots (laser drilling)
- Raster imports (bitmaps, TIFs, etc.)
- Vector imports (DXF, PLT, etc.)

Text & Fonts

- Windows® TrueType fonts available
- Raster and outline TrueType fonts
- Rotate, scale, translate, and mirror text
- Fast stroke fonts for high speed marking
- Left, right, and center justification
- Bolding and italicizing
- Adjustable text curve detail
- Character kerning
- Radial text

Object Transformations

- Apply powerful transformations to all objects
- High positional precision
- Object transformations through drag and drop
- Precise object transformations through keyboard
- Object translation (moving)
- Object rotation (1 degree increments)
- Object scaling (width, height, or both)
- Object mirroring (vertical and horizontal axis)
- Vertical, horizontal, and center object alignment
- Step and repeat marking (object arrays)
- Variable row and column spacing for step and repeat
- Multiple object grouping and ungrouping

Raster & Vector Graphics

- Import all popular raster formats (GIF, BMP, TIF, JPG, etc.), and numerous vector formats (DXF, PLT, WMF, etc.)
- Rotate, scale, translate, and mirror all graphic imports
- Powerful black and white dithering for color images
- Full raster marking (photos, pictures, etc.)

ActiveX / OLE Automation

- WinMark ActiveX control available
- Control marking from any Active compatible environment including
- MS Access, Visual C++, Visual Basic,
- Delphi, MS Word, and more!
- Load drawings right into the ActiveX control
- Customize every aspect of the drawing through ActiveX

Bar Code Marking

- UPC-A and UPC-E
- EAN/JAN
- Code 39 (3 of 9) and Extended Code 39
- Code 93 and Extended Code 93
- HIBC
- Interleaved 2 of 5
- Code 128
- UPC-128
- MSI Plessy
- Codabar
- PDF417
- 2D barcode: DataMatrix ECC 200
- Zip+4 Postnet
- Invert barcodes (white on black)
- Customizable Barcode Text Font
- Text on Top or Bottom
- Barcode Checksum
- Translate, scale, rotate, or mirror barcodes

Process Automation

- Serial number marking (alphanumeric and fixed characters)
- Configurable date code text
- Read marking text from serial port (can be used with barcode readers, etc.)
- Read marking text from disk file
- Read marking text from keyboard
- Text automation for both normal text and barcode numbers
- Mark objects based upon digital signaling
- Start and stop marking based upon digital signaling
- Pause for specified amounts of time
- Track serial numbers across marking sessions
- Call user specified DLLs for total customization

Marking Parameters

- Adjustable field size (square or rectangular)
- Scale entire mark field (X and Y axis)
- Rotate entire mark field (1 degree increments)
- Offset entire mark field (X and Y axis)
- Velocity control by object (up to 300 in/second)
- Power control by object (in percent)
- Invertible marking axis (X and Y axis)
- Adjustable mark passes by object
- Adjustable mark resolution by object
- Variable marking delays by object

Interested in speaking to one of our knowledgable representatives?

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