

NEW FEATURES:

Dedicated Stencils Tool

Beginning with this release WISE is now offering a dedicated Stencil/Paste creation tool: **VisualCAM Stencils**. VisualCAM Stencils is an all new licensed product level focused on intelligent Stencil/Paste design with an affordable price tag. VisualCAM Stencils comes with a custom menu and toolbar layout and all the features needed for complete control of your stencil/paste data creation, modification, verification and reporting. Fully automated using footprint libraries and shape rules, but flexible enough to handle unusual data sets, VisualCAM/Stencils gives complete control of your Stencil/Paste needs.

VisualCAM Stencils Highlights:

1. Import File Types Supported: Gerber, Barco DPF, HPGL, DXF, CAM350, IPC-2581, ODB++, Pads ASCII and GenCAD.
2. LayerPrep Macro included that automatically prepares your data for Stencil design by running Stacked Pad Removal, Drawn Pad Conversion and Custom to Intrinsic for processing all in one step.
3. Easily identify your parts with one of the four options:
 - Footprint Library
 - Package Definitions
 - Select Footprint
 - Centroid File

As identification is done the parts are added to the Footprint Library. Save the Footprint Library for re-use on future designs.

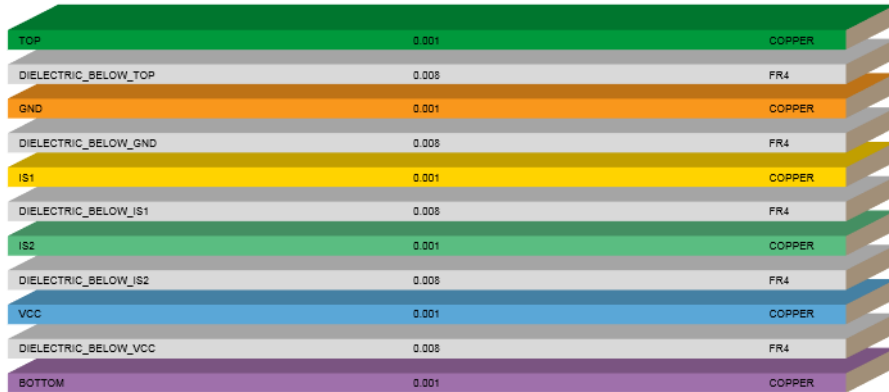
Note: IPC-2581, ODB++, GenCAD and Pads ASCII file types are intelligent files that already have footprints identified on import.

4. Use the Silkscreen option during Identification to automatically identify the direction for two pin parts. Some designs have areas where the two pin part orientation is ambiguous. Using the silkscreen helps ensure that your parts are identified correctly.
5. Complete control of your paste shapes using the Footprint/Shape Library. Define a shape using one of the standard 16 shapes available and reuse on multiple footprints. Set the size Height, Width, Length, Inset, Corner Radius. Reverse Direction, Justify by Inner, Outer and Offset. Add Window Pane to any shape setting the Gap Size, Count, and Angle. Save your Shape Sets for reuse on future jobs.
6. Use the Interactive Reports to help complete your design with full control and knowledge of your process. With the Library or Paste Layer Report you can now interactively set the shapes and easily see which parts do not have shapes assigned. On the fly Pitch Rule Testing with color coded pass or fail per your Pitch Rules. For documentation print directly from the Layer Report or Library Report and select which information to print out.
7. New command to Undersize and/or add Round Corners of pads by layer makes editing simple jobs a snap.
8. Analysis includes Layer Compare, Design Compare, Find Duplicates, Find Non-part Pads, Find Stacked Pads and Pad to Pad Spacing.
9. Secure your libraries using Password Protection to protect your Footprint Library and Shape Libraries from being changed inadvertently.
10. Footprint/Shape editor allows multiple methods to sort your Footprint Library. Sort by Footprint, Device, Date, Newest, Oldest, Name, List unused, Remove unused, Delete Footprints, etc.

Note: VisualCAM Stencils was known in a previous release as "Advanced Stencil" and was included in the ARE option for VisualCAM. To provide a better solution for our customers we have removed Advanced Stencil from the ARE option and created this more focused product level.

Stackup

Stackup Generator Report allows you to graphically display your IPC-2581B Stackup information within Excel. Right click on the Stackup information in the Navigator and Choose "Create Excel Report" to run the Stackup Report Generator. Display Stackup Name, Total Thickness, Layer Name, Layer Type and Layer Thickness as specified in the IPC-2581 file.



| Layer Name | Thickness | Material |
|----------------------|-----------|----------|
| TOP | 0.001 | COPPER |
| DIELECTRIC_BELOW_TOP | 0.008 | FR4 |
| GND | 0.001 | COPPER |
| DIELECTRIC_BELOW_GND | 0.008 | FR4 |
| IS1 | 0.001 | COPPER |
| DIELECTRIC_BELOW_IS1 | 0.008 | FR4 |
| IS2 | 0.001 | COPPER |
| DIELECTRIC_BELOW_IS2 | 0.008 | FR4 |
| VCC | 0.001 | COPPER |
| DIELECTRIC_BELOW_VCC | 0.008 | FR4 |
| BOTTOM | 0.001 | COPPER |

Assembly Reverse Engineering (ARE)

- Added "Part Identification by Package". This new feature comes with pre-defined packages that make identifying components easier than ever. Add to the default package definition file to customize to your own requirements.
- "Select Packages" option allows you to run identification on selected parts only.
- Many enhancements have been made to assist in the identification of components.

USER REQUESTED ENHANCEMENTS AND FIXES:

IPC-2581 REV B

- ✓ Added new Excel based Stackup Report
- ✓ toolIdRef no longer exported in Rev B
- ✓ Added support for pin Title attribute
- ✓ Added support for Non Standard Attributes
- ✓ Changed export function mode from Fabrication to USERDEF
- ✓ Panel Border now created as Polyline instead of Draws
- ✓ Fixed "Out of Memory" message on customer file
- ✓ Fixed problem with missing layer feature transforms in REV B

Macros

- ✓ Corrected the position of the message box for the GETVALUE macro
- ✓ Increased the number of macro files allowable in a folder to 512
- ✓ IMPORTDXF macro updated with new parameters
- ✓ Added new EXPORTBITMAP macro

Other

- ✓ Pin number display is now all or nothing depending on zoom level
- ✓ Centroid file converter dialog is now resizable
- ✓ Improved ODB++ import of EDA data that has corrupt net indexes
- ✓ ODB++ import now handles numeric only file names
- ✓ Improved GenCAD import of customer files that do not conform to version 1.4
- ✓ Removed unnecessary redraws during processing of Automatic Convert Drawn Pads
- ✓ Part Association errors are now logged to the Navigator during import
- ✓ Fixed problem with file extensions when exporting bitmaps using batch mode
- ✓ All text command dialog settings are now stored in the registry
- ✓ Automatic Convert Drawn Pads now works on simple rotated polygons
- ✓ DXF Import/Export now honors configuration setting "track current design folder"