

Functional Matrix	VisualCAM™	VisualCAM Stencils™	GerbTool™			
	VisualCAM	VisualCAM Stencils	GT-Designer	GT-Inspector	GT-Communicator	GT-Viewer
<b>Features, By Menu Item</b>						
<b>File Menu</b>	X	X	X	X	X	X
New	X	X	X	X	X	X
Open	X	X	X	X	X	X
Close	X		X	X	X	X
Merge	X		X	X	X	X
Save	X	X	X	X	X	X
Save As	X	X	X	X	X	X
Import	X	X	X	X	X	X
Wizard...	X	X	X	X	X	X
Gerber	X	X	X	X	X	X
Aperture List	X	X	X	X	X	X
NC (Drill/Mill)	X	X	X	X	X	X
NC Tool List	X	X	X	X	X	X
Barco DPF	X	X	X	X	X	X
HPGL	X	X	X	X	X	X
DXF	X	X	X	X	X	X
CAM350	X	X	Optional Module (DCM)	Optional Module (DCM)	Optional Module (DCM)	
IPC-2581	X	X	X	X	X	
ODB++	X	X	X	X	X	
ODB++ (X)	X		X	X	X	
PADS ASCII	X	X	Optional Module (PAD)	Optional Module (PAD)	Optional Module (PAD)	
GenCAD	X	X	X	X	X	
IDF	X		Not Available	Not Available	Not Available	Not Available
Netlist	X		X	Optional Module (NLC)		
IPC-D-356	X		X	Optional Module (NLC)		
IPC-2581	X		X	Optional Module (NLC)		
ODB++	X		X	Optional Module (NLC)		
ODB++ (X)	X		X	Optional Module (NLC)		
PADS ASCII	X		X	Optional Module (NLC-PAD)		
Lloyd Doyle AOT	X		Not Available	Not Available	Not Available	Not Available
Stackup (IPC-2581)	X		Not Available	Not Available	Not Available	Not Available
<b>Export</b>	X	X	X	X	X	
Gerber	X	X	X	X	X	
Aperture List	X	X	X	X	X	
NC (Drill/Mill)	X		X	X	X	
NC Tool List	X		X	X	X	
Barco DPF	X	X	X	X	X	
IPC-D-350	X		X	X	X	
IPC-D-356(A/B)	X		X	Optional Module (NLC)		
IPC-2581	X	X	X	X	X	
GenCAD	X	X	Not Available	Not Available	Not Available	Not Available
DXF	X	X	X	X	X	
GerbTool v8	X		X	X	X	
Lloyd Doyle AOT	X		Not Available	Not Available	Not Available	Not Available
ODB++	X	X	X	X	X	
ODB++ (X)	X		X	X	X	
HPGL	X	X	X	X	X	
Postscript	X	X	X	X	X	
Bitmap	X	X	X	X	X	
Page Setup	X	X	X	X	X	X
Print	X	X	X	X	X	X
Print Preview	X	X	X	X	X	X
Print Setup	X	X	X	X	X	X
Send (Email design file)	X	X	X	X	X	X
Save Log	X	X	X	X	X	X
<b>Properties</b>	X	X	X	X	X	X
Exit	X	X	X	X	X	X
<b>EDIT</b>	X	X	X	X	X	
Undo	X	X	X	X	X	
Redo	X	X	X	X	X	
Select	X	X	X	X	X	
New Group	X	X	X	X	X	
Add to	X	X	X	X	X	
Remove From	X	X	X	X	X	
Invert	X	X	X	X	X	
Clear	X	X	X	X	X	
Copy Selection to Clipboard	X	X	X	X	X	
Paste Clipboard	X	X	X	X	X	
Item	X	X	X	X	X	
Copy	X	X	X	X	X	
Move	X	X	X	X	X	
Delete	X	X	X	X	X	
Text	X	X	X	X	X	
Polyline	X	X	X	X	X	
Vertices	X	X	X	X	X	
Add Vertex	X	X	X	X	X	
Add Slot	X	X	X	X	X	
Delete Segments	X	X	X	X	X	
Vertex	X	X	X	X	X	
Add	X	X	X	X	X	
Delete	X	X	X	X	X	
Move	X	X	X	X	X	
Segment Delete	X	X	X	X	X	
Clip	X	X	X	X	X	
Join	X	X	X	X	X	
Rotate	X	X	X	X	X	
Mirror	X	X	X	X	X	
Scale	X	X	X	X	X	
Polygon Over/Undersize	X	X	X	X		

Dcode	X	X	X	X	X	X	
Transcode	X	X	X	X	X	X	
Explode Customs	X	X	X	X	X	X	
Scale	X	X	X	X	X	X	
Polarity	X	X	X	X	X	X	
Align Layers	X	X	X	X	X	X	
Snap Pads	X	X	X	X	X	X	
Origin	X	X	X	X	X	X	
NC	X		X	X	X	X	
Drill Properties	X		Optional Module (ANC)				
Path Properties	X		Optional Module (ANC)				
Change	X		X	X	X		
Operator Message	X		Optional Module (ANC)				
Tools	X		X	X	X		
Break Tab	X		Optional Module (ANC)				
Mill Plunge Point	X		Optional Module (ANC)				
Mill Compensation	X		Optional Module (ANC)				
Delete	X		Optional Module (ANC)				
Operator Message	X		Optional Module (ANC)				
Optional Stop	X		Optional Module (ANC)				
Break Tab	X		Optional Module (ANC)				
Move Break Tab	X		Optional Module (ANC)				
Reverse Path Direction	X		Optional Module (ANC)				
Explode	X		Optional Module (ANC)				
Combine Paths	X		Optional Module (ANC)				
Purge	X		X	X	X		
View	X	X	X	X	X	X	X
Window	X	X	X	X	X	X	X
Zoom in	X	X	X	X	X	X	X
Zoom Out	X	X	X	X	X	X	X
Pan	X	X	X	X	X	X	X
All (Fit)	X	X	X	X	X	X	X
Film Box	X	X	X	X	X	X	X
Redraw	X	X	X	X	X	X	X
Sketch	X	X	X	X	X	X	X
Overlay	X	X	X	X	X	X	X
Grid	X	X	X	X	X	X	X
Composites	X	X	X	X	X	X	X
Backside	X	X	X	X	X	X	X
Negative	X	X	X	X	X	X	X
Virtual Panel	X		X	X	X	X	X
Parts	X	X	Not Available	Not Available	Not Available	Not Available	Not Available
Cross Probe	X		X	Not Available	Not Available	Not Available	Not Available
Clear Highlights	X	X	X	X	X	X	X
Highlights	X	X	X	X	X	X	X
Selections	X	X	X	X	X	X	X
Selections Filter	X	X	X	X	X	X	X
Save	X	X	X	X	X	X	X
1 thru 8	X	X	X	X	X	X	X
Recall	X	X	X	X	X	X	X
1 thru 8	X	X	X	X	X	X	X
Previous	X	X	X	X	X	X	X
Navigator	X	X	X	X	X	X	X
Toolbars	X	X	X	X	X	X	X
Restore Toolbars	X	X	X	X	X	X	X
View Tabs	X	X	X	X	X	X	X
Add	X	X	X	X	X	X	X
Delete	X	X	X	X	X	X	X
Add	X	X	X	X	X	X	
Flash	X	X	X	X	X	X	
Draw	X	X	X	X	X	X	
Polyline	X	X	X	X	X	X	
Rectangle	X	X	X	X	X	X	
Vertex	X	X	X	X	X	X	
Circle	X	X	X	X	X	X	
Arc-Center	X	X	X	X	X	X	
Arc-3 Point	X	X	X	X	X	X	
Array	X	X	X	X	X	X	
Polygon	X	X	X	X	X	X	
Polygon Void	X	X	X	X	X	X	
Text	X	X	X	X	X	X	
Barcode	X	X	X	X	X	X	
Drill	X		X				
Slot	X		X				
Mill Path	X		Optional Module (ANC)				
NC Circle	X		X				
Drilled	X		X				
Milled	X		Optional Module (ANC)				
CCW Inside	X		Optional Module (ANC)				
CCW Outside	X		Optional Module (ANC)				
CW Inside	X		Optional Module (ANC)				
CW Outside	X		Optional Module (ANC)				
Drilled Text	X		X				
Break Tab	X		Optional Module (ANC)				
V-Cut	X						
Operator Message	X		Optional Module (ANC)				
Optional Stop	X		Optional Module (ANC)				
Setup	X	X	X	X	X	X	X
Layers	X	X	X	X	X	X	X
Apertures	X	X	X	X	X	X	X
Composites	X	X	X	X	X	X	X
Layer Sets	X	X	X	X	X	X	X
View/Edit	X		X	X	X	X	X

Blind & Buried	X		X	X	X	X
MCM/LTCC Stackup	X		X	X	X	X
NC Tools	X		X	X	X	X
Break Tabs	X		Optional Module (ANC)			
Footprint Library	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
User Defined Design Properties			X	X	X	X
<b>Documentation</b>	X	X	X	X	X	X
Reports	X		X	X	X	X
Apertures	X		X	X	X	X
NC Tools	X		X	X	X	X
Embedded Passives	X		X	X	X	X
BOM	X		Not Available	Not Available	Not Available	Not Available
Fiducials	X		Not Available	Not Available	Not Available	Not Available
Panel Details	X		Optional Module (PNL)	Not Available	Not Available	Not Available
Aperture Report		X				
Paste Layer Report		X				
Redline	X	X	X	X	X	X
Add Text	X	X	X	X	X	X
Add Balloon	X	X	X	X	X	
Add Arrow	X	X	X	X	X	
Add Line	X	X	X	X	X	
Sketch	X	X	X	X	X	
Delete	X	X	X	X	X	X
Properties	X	X	X	X	X	X
View Redlining	X	X	X	X	X	X
<b>Drawing</b>	X		X			
Dimensioning	X		X			
Add Dimension	X		X			
Delete Dimension	X		X			
Modify Dimension	X		X			
Properties	X		X			
Add Line	X		X			
Delete Line	X		X			
Modify Line	X		X			
Drill	X		X			
Add Hole Chart	X		X			
Delete Hole Chart	X		X			
Modify Hole Chart	X		X			
Update Hole Chart	X		X			
<b>Fabrication</b>	X		X			
Add Note Balloon	X		X			
Delete Note Balloon	X		X			
Modify Note Balloon	X		X			
<b>Analysis</b>	X	X	X	X		
<b>DRC/MRC</b>	X		X	X		
<b>Information</b>	X		X	X		
Min. Air Gap	X		X	X		
Conductive Layer Count	X		X	X		
Board Size	X		X	X		
Hole Count	X		X	X		
Hole Size Count	X		X	X		
Buried Vias	X		X	X		
Blind Vias	X		X	X		
Stacked Blind/Buried Vias	X		X	X		
Min Pad/Drill	X		X	X		
Min Drill/Drill	X		X	X		
Min NPTH/Copper	X		X	X		
Min Pad/Pad	X		X	X		
Min Pad/Trace	X		X	X		
Min Trace/Trace	X		X	X		
Min Pad/Mask	X		X	X		
Min Thermal/Drill	X		X	X		
Min PTH Pad Size	X		X	X		
Min Trace Width	X		X	X		
Min SMT Pitch	X		X	X		
Legend on PTH	X		X	X		
Legend on NPTH	X		X	X		
Missing Hole Count	X		X	X		
Mill Path Length	X		X	X		
Max PTH Registration	X		X	X		
Exposed Copper Count	X		X	X		
Copper Silver Count	X		X	X		
Mask Silver Count	X		X	X		
<b>DRC</b>	X		X	X		
Pad/Pad	X		X	X		
Pad/Trace	X		X	X		
Trace/Trace	X		X	X		
Border	X		X	X		
Min. Pad	X		X	X		
Min. Trace	X		X	X		
Stubs	X		X	X		
Drill/Drill	X		X	X		
Drill Annulus	X		X	X		
Direct to Plane	X		X	X		
Drill/Copper	X		X	X		
Pad/Top Mask	X		X	X		
Pad/Bot Mask	X		X	X		
Drill/Top Mask	X		X	X		
Drill/Bot Mask	X		X	X		
Missing Top Mask	X		X	X		
Missing Bot Mask	X		X	X		
Pad/Top Silk	X		X	X		
Pad/Bot Silk	X		X	X		

Via/Via	X		X	X		
Via/Pin	X		X	X		
Via/Trace	X		X	X		
Via/Border	X		X	X		
Via/Drill Annulus	X		X	X		
Via Drill/Direct to Plan	X		X	X		
Via/Drill Adjacency	X		X	X		
Via/Top Mask	X		X	X		
Via/Bot Mask	X		X	X		
Via Drill/Top Mask	X		X	X		
Via Drill/Bot Mask	X		X	X		
Via/Top Silk	X		X	X		
Via/Bot Silk	X		X	X		
Via/Missing Top Mask	X		X	X		
Via/Missing Bot Mask	X		X	X		
Via Min Size	X		X	X		
Missing Drill	X		X	X		
Isolated Drill	X		X	X		
Coincident Drill	X		X	X		
Redundant Drill	X		X	X		
Mill Path	X		X	X		
DFF	X		Optional Module (DFF)	Optional Module (DFF)		
Acid Traps	X		Optional Module (DFF)	Optional Module (DFF)		
Copper Slivers	X		Optional Module (DFF)	Optional Module (DFF)		
Resist Slivers	X		Optional Module (DFF)	Optional Module (DFF)		
Top Mask Slivers	X		Optional Module (DFF)	Optional Module (DFF)		
Bot Mask Slivers	X		Optional Module (DFF)	Optional Module (DFF)		
Isolated Thermals	X		Optional Module (DFF)	Optional Module (DFF)		
Starved Thermals	X		Optional Module (DFF)	Optional Module (DFF)		
Top Solder Bridges	X		Optional Module (DFF)	Optional Module (DFF)		
Bot Solder Bridges	X		Optional Module (DFF)	Optional Module (DFF)		
Pin Holes	X		Optional Module (DFF)	Optional Module (DFF)		
SMD Pitch	X		Optional Module (DFF)	Optional Module (DFF)		
SMD Spacing	X		Optional Module (DFF)	Optional Module (DFF)		
Layer Registration	X		Optional Module (DFF)	Optional Module (DFF)		
NLC	X		X	Optional Module (NLC)		
Net Short	X		X	Optional Module (NLC)		
Net Open	X		X	Optional Module (NLC)		
No Copper	X		X	Optional Module (NLC)		
No External	X		X	Optional Module (NLC)		
Pad Probe Validation	X		X	Optional Module (NLC)		
Embedded Passive	X		Optional Module (EP)			
Alignment	X		Optional Module (EP)			
Bar Overlap	X		Optional Module (EP)			
Bar Extension	X		Optional Module (EP)			
Bar Width	X		Optional Module (EP)			
Minimum Size	X		Optional Module (EP)			
Maximum Size	X		Optional Module (EP)			
To Copper	X		Optional Module (EP)			
To Drill	X		Optional Module (EP)			
Netlist Compare	X		X	Optional Module (NLC)		
Layer Compare	X	X	X	X		
Design Compare	X	X	X	X		
Find Duplicates	X	X	X	X	X	
Find Non-part Pads		X				
Find Stacked Pads		X				
Pad to Pad Spacing		X				
Copper Area	X	X	X	X	X	
Query	X	X	X	X	X	X
Item	X	X	X	X	X	X
Net	X		X	X	X	X
User Data	X	X	X	X	X	X
Embedded Passive	X		X	X	X	X
Highlight	X	X	X	X	X	X
Measure	X	X	X	X	X	X
Point-to-Point	X	X	X	X	X	X
Edge-to-Edge	X	X	X	X	X	X
Center-to-Center	X	X	X	X	X	X
Extents	X	X	X	X	X	X
Options	X	X	X	X	X	X
Grid Snap	X	X	X	X	X	X
Ortho Line Snap	X	X	X	X	X	X
Arcs 360	X	X	X	X	X	X
Units/Precision	X	X	X	X	X	X
Configure	X	X	X	X	X	X
Customize Toolbar	X	X	X	X	X	X
Import Settings	X	X	X	X	X	X
Macro	X	X	X	X		
Run	X	X	X	X		
Load	X	X	X	X		
Developer	X	X	X	X		
Record	X	X	X	X		
Tools	X		X	X		
Panelize	X		X			
Advanced	X		Optional Module (PNL)			
Flatten	X		Optional Module (PNL)			
Promote Image Data	X		Optional Module (PNL)			
Add Fiducial	X		Optional Module (PNL)			
Add Tooling Hole	X		Optional Module (PNL)			
Simple	X		X			
Netlist	X		X	X	X	
Generate	X		X	X	X	
Save	X		X	X	X	

Clear Netlist	X		X	X	X	
Apply External Net Names	X		X			
Set Net Types	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Soldermask	X		X			
Generate	X		X			
Optimize	X		X			
Pastemask	X		X			
Generate	X		X			
Optimize	X		X			
Snoman	X		X	X		
Teardrops	X		X	X		
Fix Silkscreen	X		X	X		
Pad Removal	X		X	X		
Isolated	X		X	X		
Stacked	X		X	X		
NC	X		X			
Create from Path	X		Optional Module (ANC)			
Drill Separate	X		X	X		
Drill Mask	X		X			
Set Group Order	X		X			
Optimize	X		X			
Double Mill Path	X		Optional Module (ANC)			
Display Settings	X		X			
Create Mill Path from Tabs	X		Optional Module (ANC)			
Test Points	X		Not Available	Not Available	Not Available	Not Available
Setup Tools	X		Not Available	Not Available	Not Available	Not Available
Generate	X		Not Available	Not Available	Not Available	Not Available
From External Nets	X		Not Available	Not Available	Not Available	Not Available
Add	X		Not Available	Not Available	Not Available	Not Available
Stagger	X		Not Available	Not Available	Not Available	Not Available
Analysis	X		Not Available	Not Available	Not Available	Not Available
Flying Probe	X		Not Available	Not Available	Not Available	Not Available
IPC-D-356A	X		Not Available	Not Available	Not Available	Not Available
Test Fixture	X		Not Available	Not Available	Not Available	Not Available
Snap to Grid	X		Not Available	Not Available	Not Available	Not Available
Save	X		Not Available	Not Available	Not Available	Not Available
Embedded Passives	X		Optional Module (EP)			
Find	X		Optional Module (EP)			
Mark Resistor Flashes	X		Optional Module (EP)			
Build Embedded Passives	X		Optional Module (EP)			
Etch Compensation	X		Optional Module (EP)			
Query	X		X	X	X	X
Report	X		X	X	X	X
Layer Spread	X		X	X		
Stencils			X			
Setup Shapes			X			
Manual Conversion			X			
Automatic Conversion			X			
Convert	X	X	X	X		
Drawn Pads	X	X	X	X		
Automatic	X	X	X			
Select Draws	X	X	X	X		
Draw Text	X	X	Not Available	Not Available	Not Available	Not Available
Arcs to Segmented Arcs	X		X	X		
Segmented Arcs to Arcs	X	X	X	X		
Gerber to NC	X		X	X		
NC to Gerber	X		X	X		
To Custom	X	X	X	X		
Raster to Vector	X	X	X	X		
Consolidate Vector Items	X	X	X	X		
Composite to Layer	X	X	X	X		
Layer to Polygons	X	X	X	X		
Mill-to-Drill	X		X	X		
Drill-to-Mill	X		X	X		
Quick Convert		X	X			
Pad Undersize/Round Corners		X				
Create Border	X		X			
Assembly	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Setup Footprint Library	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Parts	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Identify Using	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Footprint Library	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Package Definitions	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
IPC-D-356 Data	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Silkscreen Layer	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Centroid File	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Select Footprint	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Delete	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Query	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Associate Parts	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
BOM Report	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Fiducials	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Identify	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Report	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Analysis	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Device Spacing	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Centroid Comparison	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
BOM Comparison	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Find Non Part Pads	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Import BOM	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Export FATF	Optional Module (ARE)		Not Available	Not Available	Not Available	Not Available
Stencils		X				
Identify Parts Using		X				

Footprint Library		X				
Package Definitions		X				
Select Footprint		X				
Centroid File		X				
Setup & Assign Shapes		X				
Generate		X				
Paste Layer Report		X				
Associate Parts		X				
User (menu for macro or commands)	X	X	X	X	X	X
Help	X	X	X	X	X	X
Help Topics	X	X	X	X	X	X
Tip of the Day	X	X	X	X	X	X
License Activation Wizard	X	X	X	X	X	X
Getting Started Guide	X	X	X	X	X	X
FAQ's & How To Video Clips	X	X	X	X	X	X
User Community (Online Forms)	X	X	X	X	X	X
Check for Updates	X	X	X	X	X	X
WISE on the Web	X	X	X	X	X	X
About	X	X	X	X	X	X

Optional Module Color Code	
Advanced Panelization (PNL)	=
Advanced NC Mill Editor (ANC)	=
Netlist Comparison (NLC)	=
Assembly Reverse Engineering (ARE)	=
DFF Analysis (DFF)	=
EP Analysis (EP)	=
DirectCAM Import (DCM)	=
PADS ASCII Import (PAD)	=