***Oscillated Recall Technology, a leading provider of CAD format conversion software and Physical Phenomena Analysis Software***

June 16, 2022, Japan : Oscillated Recall Technology announces the immediate availability of CAD-X.IO (9.11.1) for CAD format conversion and simulation. CAD-X.IO is a co-development software between Artwork conversion software and Oscillated Recall Technology.

CAD-X.IO provides CAD format mutual conversion feature among 2D CAD format (GDSII, DXF, Gerber and ODB++), 3D CAD format (Parasolid and STEP so far), and Image data(BMP, JPEG, TIFF, PNG, PNC). It converts one 2D CAD format to another 2D CAD format, 2D CAD format to 3D CAD format, 3D CAD format to 2D CAD format, and the direct conversion among CAD format data and Image data.

CAD-X.IO has powerful Boolean operation features (Tools). Tools provide the hierarchical control, Shape description control and Shape format control features. Shape description control allows to convert Hatching shape description to normal Polygon shape description. Shape format control allows to choose CAD shape conversion among Single Layer format, Re-entrant format and Multiple Layers format for export.

CAD-X.IO is currently providing an advanced Etching simulation software. It is available for Compensation and Manufacturing shape calculation for LSI Package (PKG ) and PCB design and manufacturing. All calculations are achieved at the panel size on the normal size Windows PC. Any big PC server machines are required for the calculation anymore.

Also, CAD-X.IO has a Flexible Software Interface (FSI). FSI is a batch program. It allows to add external software to CAD-X.IO and support external software to launch features inside CAD-X.IO. It is a standalone batch program. FSI is very powerful to flexibly support various kinds of customizing requests.

Now, CAD-X.IO (9.11.1) introduced the new layer polarity control feature. It allows to choose specific layers for exporting among layers at the imported CAD format, change the polarity order interactively on the screen. It also automates the layer polarity setting even if layers are described in names, instead of numerical numbers. This

feature is pretty useful at the mutual conversion among GDSII and other CAD formats and strongly supports the custom program development
As next, CAD-X.IO plans to introduce the brand-new plating simulator for PKG and PCB manufacturing and the high performance CAD viewer.

Plating simulator simulates the plating phenomena on the whole panel area. It does not use traditional approximation formula (Butler-Volmer or Tafel) for the plating thickness calculation. It directly calculates the plating phenomena by analyzing the electric lines behavior. Combining Etching simulator and Plating simulator, CAD-X.IO supports the whole technologies for PKG and PCB design and manufacturing.

The new CAD viewer eliminates slow display response issue and allows to view shapes in Tera byte size GDSII. It can be applied for various kinds of image data viewing. For an example, the whole PCB manufacturing result captured by using micro-scope generates the huge numbers of image data. It is easily beyond 1,000,000,000. The new CAD viewer automatically places them at correct locations, and displays the whole image or specific location detail images with no slow response frustrations.

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