

## Ucam Xpert v2025.11

### Fixed issues

Your continued feedback is important and appreciated.

This version resolves the following issues you have raised with our Customer Care department.

### AOI Output: Galaxy

- When ticking the final inspection toggle, the output also contains masks and legends.
- Error message about some block apertures having the same uPCB attribute but not same ddb is prevented.
- Line Width Checker is used to get the minimal line width.  
It even respects painted lines and is giving the correct nominal Line width

### CAD Output: ODB++

Double underscores in the layer names remain unchanged while creating ODB++ output. Previously these double underscores were replaced by a single underscore, while adapting the layer names to the ODB++ file format specification.

### Editing: Apertures

- Creating a new block aperture on the selected objects is keeping the embedded apertures identical as the original selections, no longer trying to group aperture definitions.

### Editing: Markup Assistant

- More accurate margin in Auto Markup.

### Editing: Transform

- Applying a rotation on selected block, after duplicating a block, is running without issues in Ucam Xpert.
- Moving selected objects, objects that were selected by Select Doubles, was moving the start point of the track(s) but the endpoint of the track(s) remained (even if the tracks are not chained). Moving these selected double objects is properly transforming the tracks.

### Editing Tools: Flashmaker

- FlashMaker on Regions and Complexes could corrupt the image.  
Touching inner contour, composed of arcs and touching the outer at the location of arcs, could replace the region with an inappropriate flash. These situations are correctly supported now.

### Editing Tools: Rout

- Switching the directions of all groups in Rout Manager was losing the flashes of apertures that were used for creating draws and flashes. Changing the direction is no longer changing the number of objects.

### **General: User Interface**

- Java NullPointerException when trying to open the file selection box in Object/Image Compare on a job that has a dot in the name of the folder is solved.

### **Hypertool: Scripting**

- New scripting for Ucam Xpert "decouple (unlink) steps" is available.
- New scripting API for Ucam Xpert "Image compare" is available.
- New scripting API for Ucam Xpert "Panel Xpert" is available.
- New scripting API for Ucam Xpert "DRC Xpert" is available.

### **Input: GDSII**

- Path shift is fixed in GDSII input.

### **Input: DPF**

- UNDEFINED apertures in a layer could cause unexpected image, in case the layer contains valid apertures that have the same aperture number as the UNDEFINED aperture.  
These common aperture numbers are no longer confusing the handling of the layer(s).

### **Input: Import ODB++**

- ODB++ Import of a surface definition with many full arc holes could cause. This construction can be loaded normally.
- Short redundant tracks at the beginning of a surface island could confuse ODB++ Import conversion and could result in missing region. These surface definitions are correctly handled now.
- Better support of <resize\_factor> specified for flashes with customized ODB++ symbol definitions that contain surface feature(s).

### **Job Editor: Layers**

- Merge layer is not grouping apertures at all if aperture name, number, attributes or definition is different.

### **Job Tree**

- Step and repeat in production or assembly panels are respected in job tree mode.
- The ucam.db key: display.min\_block\_size is extended to use negative values. The value represents the size of the block in pixels on the screen. A positive value will display blocks smaller than the value as an X'ed out copper area. A negative value will hide them.

### **Netlist: Build**

- Running Job Netlist Build is keeping the active layers unchanged, although some layers needed being activated to build the netlist.

### **Panelization: PanelPlus**

- Unused Block apertures in the outline layer of a job could cause crash while opening the Results tab in PanelPlus. These unused apertures are now ignored during panelization.
- The uPlaceDimension attribute also has effect on blocks or coupon blocks.

#### **Panelization: Step and Repeat**

- Zoom factor stays unchanged after doing step & repeat instead of showing the total view.

#### **Setup:**

- The comma separated list for ucam.db drill.unplated is not restricted to 25 entries anymore. The issue with the plating area calculation is fixed.

#### **Undo/Redo: Undo**

- Object attributes are preserved when using Undo.

#### **Verification: DRC Xpert**

- DRC workspace is loaded when the function is called from the menu, but not after every check.
- Width of the group column in DRC run tables is read in again.
- Check for isolated pads now recognizes isolated draws when ucam.db key drc.isolated\_draw is set.
- Mask markup creates complexes with Zeropoint in center.
- Automatic mask markup for DRC Xpert ignores tracks and does not convert them into complexes.
- DRC Xpert uses auto markup for masks.
- New check for "PEELABLE SMD embedded" is available in DRC Xpert.
- New check to support the recognition of "MIN RING LAY1-LAY2 embedded".
- Layer filtering in DRC Xpert available.
- DRC expert covers all existing DRC checks available in Smart DRC and more.
- In DRC cross hatched data can be excluded.

#### **YELO: MAJ Mask Adjuster**

- All Job attributes are maintained when using UNDO in Mask Adjuster.
- Toggle "Ignore rings bigger than set value" is working correct again on originally merged SMD mask openings.
- Mask Adjuster MAJ is respecting the setting in option "keep merged mask openings merged". Warning about missing markup of critical pads which could create unwanted results established.