

## UcamX v2024.11

### Fixed issues

Your continued feedback is important and appreciated.

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

#### CAD Output: Gerber

- Gerber Output behaves as expected for S&R commands.

#### Editing Tools: Contours

- Surface definitions composed of (almost) self-intersecting tracks and arcs could lose part of the surfaces while validating the contour regions. The validation of these regions has been improved prevents that segments of the surface are disappearing.
- Applying error margin for ellipsis expansion is implemented to get the right BOX aperture.

#### Editing Tools: Drill Tool Manager

- Drill Tool Manager output ASCII file is respecting `drilltoolmanager.output.ascii.name` and can use variables in `drilltoolmanager.output.ascii.path`.

#### Editing Tools: Expand

- Expanding Vector Text can also consider the vector text objects embedded in block apertures.

#### Editing Tools: Fill Vector

- Extended performance for Fill Vector.

#### Editing Tools: FlashMaker

- FlashMaker on regions was replacing some regions with a too big pad.

#### Editing: Insert

- Preview for inserting a flash with a block aperture is correctly highlighting the resulting image. Previous builds could get confused by considering the transformations applied on the block apertures.

#### Editing: Transform

- Using transform - drag is behaving as expected.

#### Electrical Test: Microcraft Emma

- In some configurations MicroCraft Emma output could indicate different net name (containing additional zeroes before the net number) for the blind drill hole records, compared with the net names indicated for the other test features in the file. Also, for the blind drill hole records the correct net name is mentioned.

#### Electrical Test: Utest

- Testpoint creation updated when running Utest.
- Testpoint creation extended in SmartTest.

#### FaultStation:

- An option to specify a location for the .les file is available.
- ATG Barcodes contains the correct number of parameters.

#### FixGenius:

- CHECK3D.EXE updated.

#### General: Colors

- Display issue in planes 4 or higher in combination with Highlight Pads (for Plane 1), all objects are displayed.

#### General: User Interface

- Same fonts are used in case of multiple UcamX sessions.
- Job locking is unlocking the job when using "Close" from the Ucam menu.

### **General: Workspace**

- 'click & drag' toolbars functionality is back.

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

- Changing the sequence of the apertures in ApertureManager menu could be confused after ODB++ Import, selected objects with certain apertures could be indicated incorrectly. The issues noticed have been resolved.
- Trying to import an ODB tgz in VHS will now give a proper message.
- Short tracks with symmetric aperture were not always applying the expected rotation on the aperture, in case the X- and/or Y-coordinate of the endpoints of the track were rounded to the same value. All available digits of the coordinates are considered to calculate the rotation that should be applied to the aperture.
- Short track to close a surface feature, and that track overlaps with previous arcs in that surface, could cause that the surface was lost after conversion. These surfaces are correctly converted now.

### **Input: SmartStart**

- SmartStart Analyze of Pentax files has been improved.

### **Job Editor: Layers**

- Display issue in planes 3 or higher in combination with Highlight Pads (for Plane 1), all objects are displayed.

### **Job Editor: View**

- Display issue in planes 4 or higher in combination with Highlight Pads (for Plane 1), all objects are displayed.

### **Job Management: Open Job**

- Switching between jobs is working as expected.

### **Panelization: CustomerPanel**

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- Clarified GUI for Customer Panel feature.

### **Panelization: PanelPlus**

- PanelPlus allows creating the DPF Object Links again.
- Applying a rotation of  $-90^\circ$  on 2 sequential flashes in the Panel Results Preview Area, of PanelPlus, as creating a dedicated block aperture for both flashes. Now these flashes are sharing the same block aperture definition (as is also the case for other transformations that are applied in the results preview).
- Drill coupons can now handle slots too.

### **Stencil Toolbox:**

- Assigning HomePlate is respecting the original position.
- Change aperture shape remaining draws are respected.
- Selections by size is working as expected.

### **Verification: Net Compare**

- `netcompare.inner_layers.mode: 2` -> the new key for the comma separated list of layer subclasses is `"netcompare.inner_layers.class"`. E.g.: `netcompare.inner_layers.class: outer,myspecial`.

### **Verification: Secure Etch Compensation**

- Secure Etch Compensation, running in multi-processor mode, was not always respecting the requested clearance.
- Correct adjustments for clearances in SEC.

### **View: Magnifier**

- Introduction of a set of `ucam.db` keys to influence the buttons that are displayed in the Magnifier II menu.

**View: Numbers**

- Repositioning the Magnifier menu was sometimes preventing the pop-up indication of the clearance when measuring Objects. That pop-up is always indicating the clearance, also when the Magnifier menu was opened and relocated or resized.
- Measure Layer in Numbers is calculating correctly and shows the correct results again.
- Calculated usage of usable area in PanelPlus is correct again.

**YELO: MAJ Tombstone**

- Certain configurations were suffering with tombstones creating spikes on neighboring pads, while running Mask Adjuster. These configurations are no longer suffering with these spikes.