

March 2018

U camX

Version 2018.03

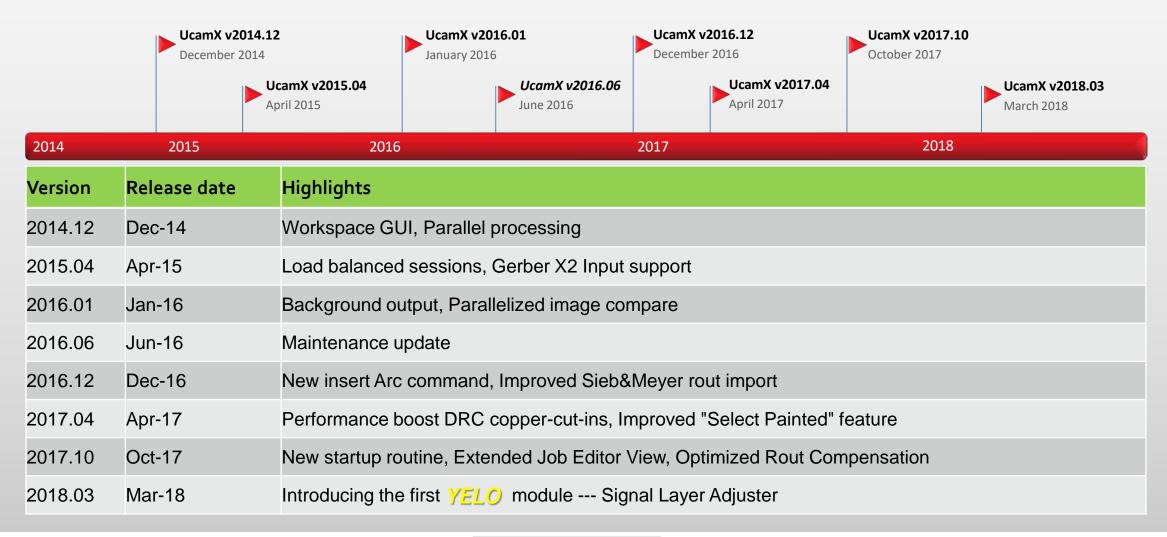






Commitment to regular updates





Overview



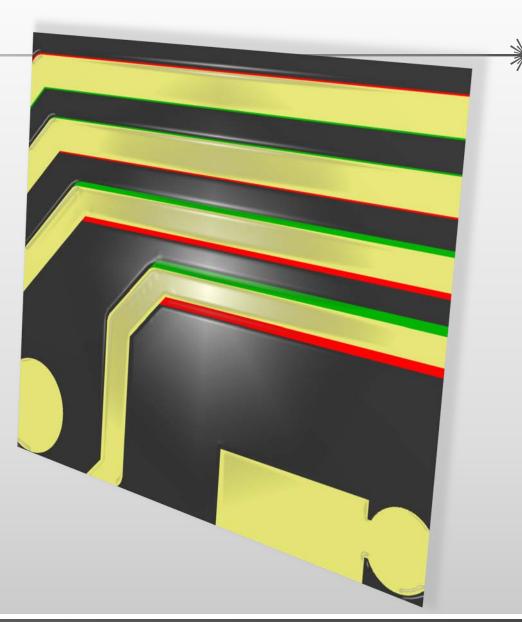
- YELO What is it?
- YELO Introducing Signal Layer Adjuster
- Sample script to help create holding webs in a contour
- Sample script to support the conversion of contour pads into COMplex pads
- Enhancements for Design Rules, Models, Hyperscript, Eagle Input and Silk Optimizer
- and more ...

YELO - What is it?

Imagine you could ...

- cut back your CAM cycle time by up to 30%
- achieve superior production yields
- deliver more reliable PCBs
- significantly improve board layouts within minutes

Well actually, with YELO now you can ...



YELO – What is it?



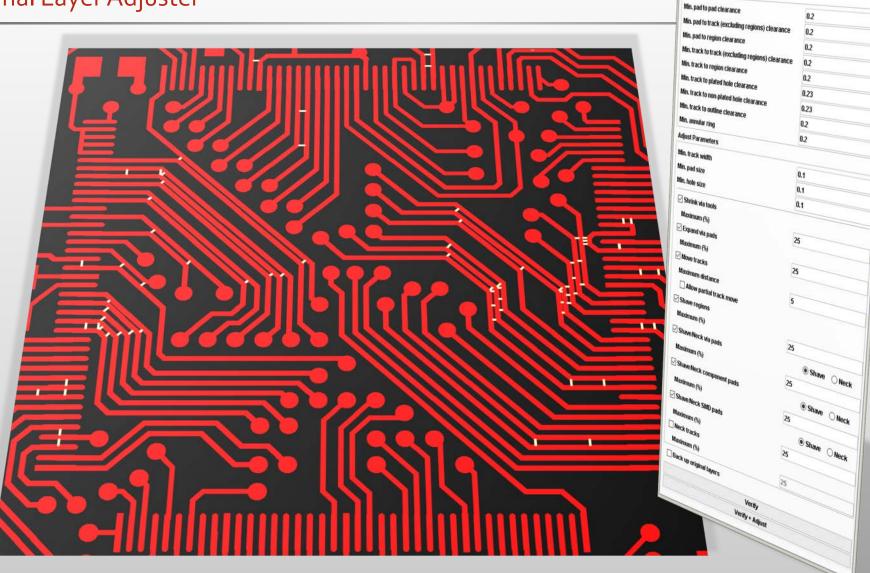
YELO - Yield-Enhancing Layout Optimizers

- Brand new suite of software modules for automated PCB layout optimization
- Unique "all-in-one" approach highly automated, integrated and industrialized workflow with absolutely minimal human intervention
- Optimizing layouts for superior production yields
- With unparalleled throughput
- And uncompromised results

UcamX v2018.03 introduces the first of a series of yield-enhancing layout optimizer modules...

Signal Layer Adjuster

YELO – Signal Layer Adjuster



Parameter Set 200m

DRC Configuration

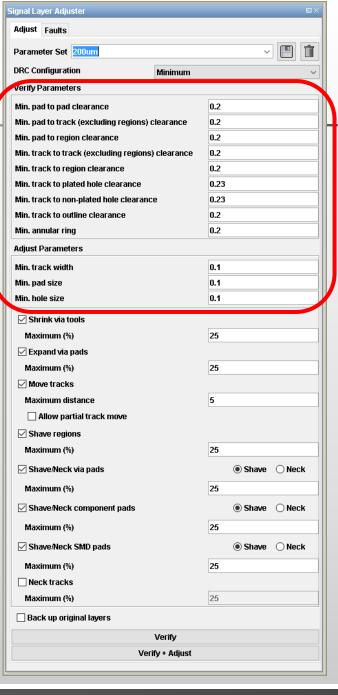
Verify Parameters

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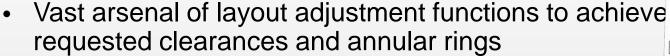




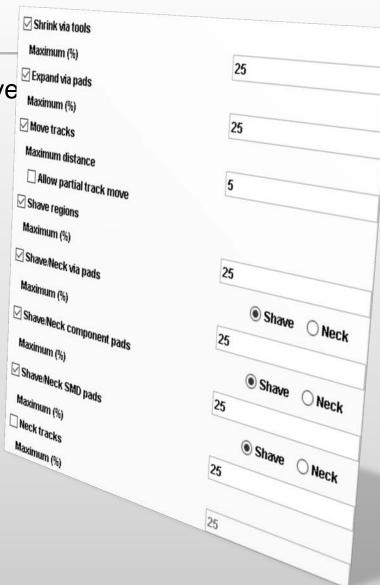
- All-in-one, fully-automatic <u>YELO</u> module
- Brings signal layers in line with the specified design requirements fully automatically
- All verification and adjust parameters entered from a single central user interface
- Different settings and values storable in parameter sets for quick retrieval and easy re-use later on
- Checks and values loadable from existing DRC configuration files to tie in seamlessly with the existing CAM workflow



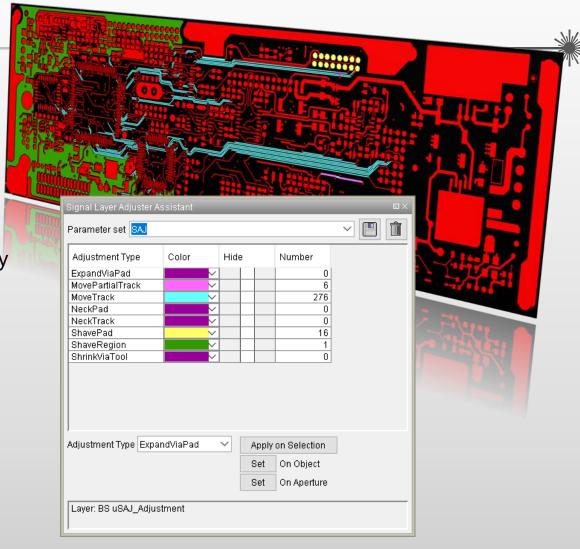




- Shrink via tools
- > Expand via pads
- Move tracks single or multiple
- Partially move tracks
- > Shave regions
- > Shave/Neck via pads
- Shave/Neck component pads
- Shave/Neck SMD pads
- Neck tracks
- Constraints for each adjustment method to suit individual customer requirements



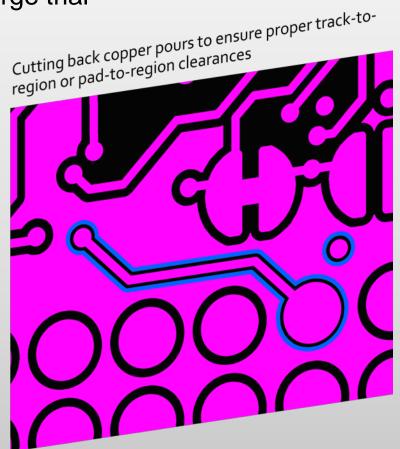
- Full traceability of all layout changes via
 - Signal Layer Adjuster Assistant
 - uses the intelligence Signal Layer Adjuster placed on the DPF data to show changes in the layout
 - Before/After adjustment information is stored persistently in the same DPF file, which makes it easy to consult throughout the entire CAM process
 - highlights a single, multiple or all types of layout adjustment that were applied on a layer
 - uses a system of different colors to display different adjustment types
 - Automatic back-up of original layers
- Full security guaranteed thanks to an integrated netlist verification

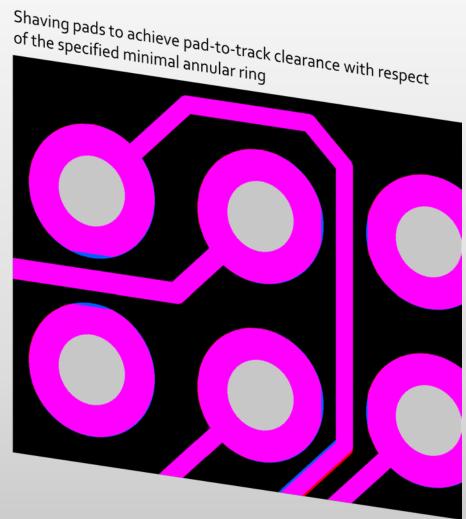


YELO – Signal Layer Adjuster

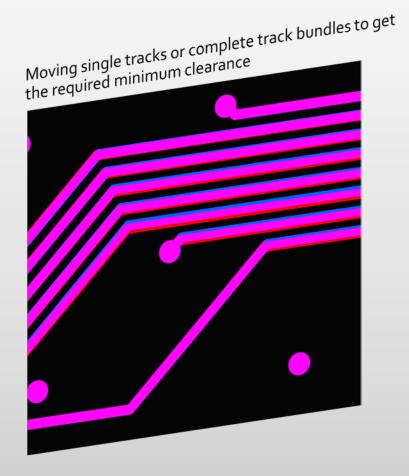


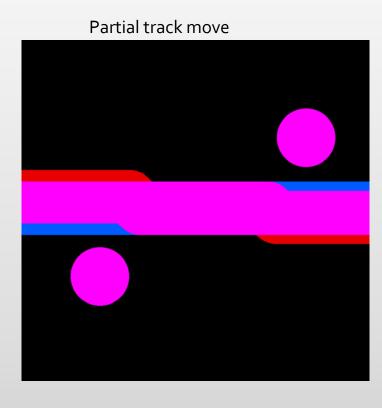
 Find out what Signal Layer Adjuster can do for you... Ask for a free-of-charge trial license!

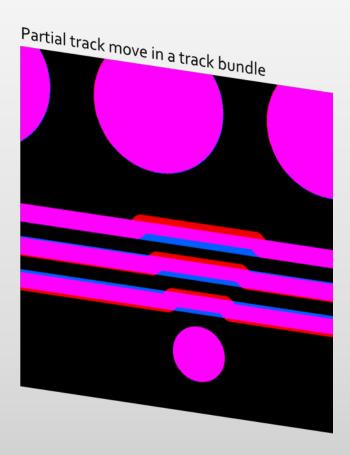






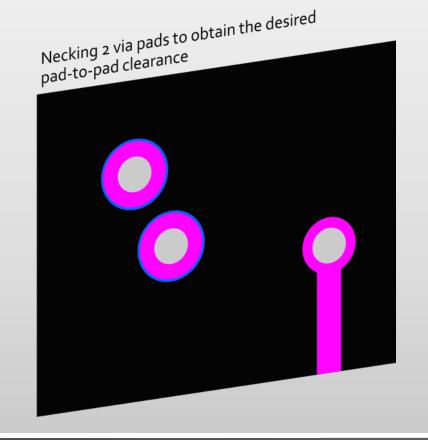


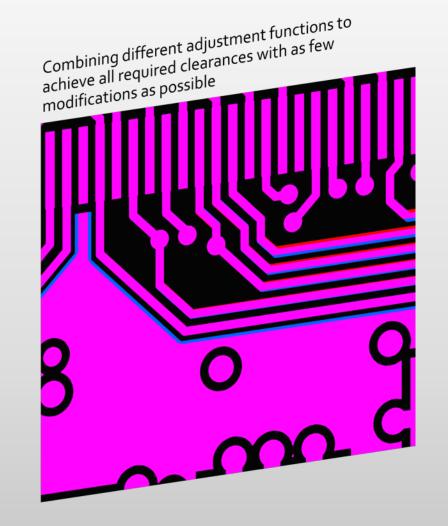




YELO – Signal Layer Adjuster

 Signal Layer Adjuster is a licensed feature - Please contact your regular Ucamco sales channel for more information and a competitive price offer.







Scripts and Enhancements



VHS script insertOpenings.vhs:

This script creates a 0.2mm opening every 10mm on every draw and arc of a layer.

The size and the space between the holding webs can be changed to your requirements.

A very useful tool e.g. for cutting foils or thin laminates.

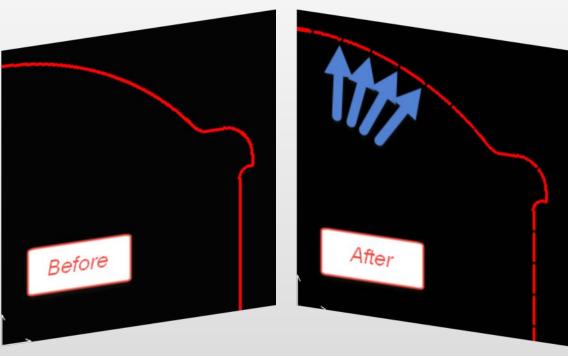
Find the script here (doubleclick):





Use the script directly with Visual Hyperscript Editor, place it in the Visual Hyperscript Menu or place it as an icon on your toolbars.

For help or further information please contact us at support@ucamco.com



Scripts and Enhancements

(1)

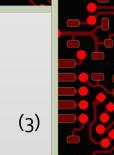
VHS script model_contour.vhs:

This script supports the user in converting contour pads into COMplex pads.

Place this script with "Loop" activated in the Visual Hyperscript Menu.



- Activate the layer you want to work on
- Activate the Highlight Pads button [III] to III to highlight the pads in light red(1)
- Start the script from the Visual Hyperscript Menu
 It will select all contours and ask to define the pads (2)
- Click on the pads and every pad with the same definition will be remodeled to COMplex pads and immediately show up in light red. Layout after 2 clicks (3)



(2)

Find the script here:



For help or further information please contact us at support@ucamco.com

Enhancements

Design Rules:

Performance improvement for Same net spacing calculation

Hyperscript:

The new HyperScript command deleteTrueObjects(); allows the removal of True Object definitions from all (active) layers.

Models:

Models is now handling Vector Text objects, while creating a COMplex aperture from selected objects (when also Vector Text objects are selected)

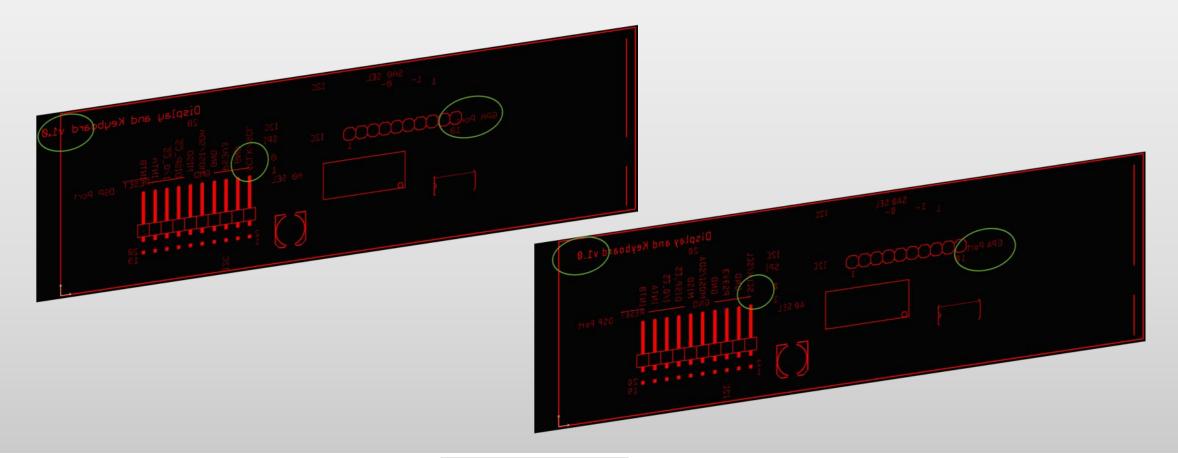


Enhancements



• Eagle Input:

Eagle Input now supports proportional font, while importing .brd files.



Enhancements



Silk Optimizer:

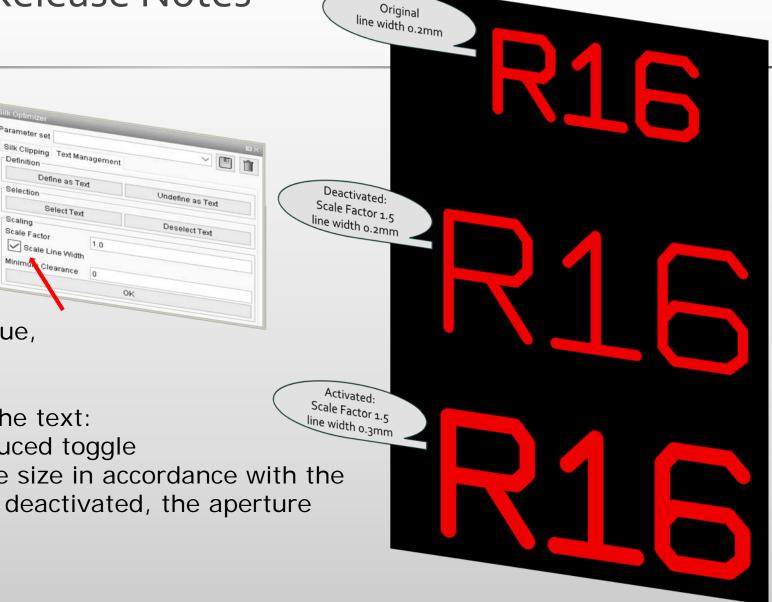
The new option "Scale Line Width", in the section "Scaling" of the Text Management tab in the Silk Optimizer dialogue,

allows to define what should happen to aperture definition(s) while scaling the text:

Activating the newly introduced toggle

will recalculate the aperture size in accordance with the scale factor entered. When deactivated, the aperture

size remains unchanged.



and more ...



UcamX v2018.03 also offers a host of code fixes for issues reported by our user community.

If you are still on an older version of UcamX or still on Ucam, please have a look at the release notes and bug fixes of recent versions.

- UcamX v2014-12
- UcamX v2015.04
- UcamX v2016.01
- UcamX v2016.06
- UcamX v2016.12
- UcamX v2017.04
- UcamX v2017.10

All Release Notes and code fixes are listed on the <u>Downloads</u> page of the Ucamco website.

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