Imaging Engine Calibration & Screening What's new 24.03

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Imaging Engine / Calibration / Screening 24.03

- Print Control Wizard
 - eXact V2 support (scan mode)
 - new optics added: V3 and V3+
 - new XPS certified plates added
 - Legacy calibration
- Curve Pilot
 - eXact V2 support (scan and spot mode)
- Imaging Engine
 - Changed behaviour in multipage output
 - TIFF Post rip tool (for FlexRip and NexusRip migrations)
- Concentric screening



Print Control Wizard







eXact2 – Scan mode

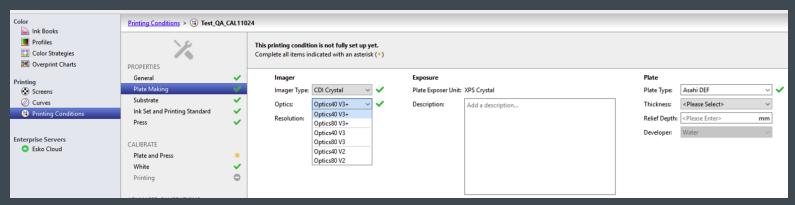
- The on-board camera provides visual look ahead and color bar recognition.
- Color Pilot will inform the User if measuring too fast..and ask the User to try again.
- The integrated wheels help the User to seamlessly switch from measuring individual patches to scanning colour bars.
- All models are supported in PCW & Curve Pilot





Print Control Wizard 24.03 - V3 and V3+ optics

- List of optics better structured with the latest optics on top
- New optics added for CDI spark and CDI Crystal: V3 and V3+
 - V3 is 10 m² maximum
 - V3+ is 10 m² max at 2540ppi (Optics 100 V3+) / 8 m² maximum at 4000ppi with Pixel+





Print Control Wizard 24.03 – Legacy calibration

- Legacy calibration has been removed from the 'calibrate printing'
- Improves clarity as the Full or Quick calibration only generates the Crystal V screens with enhanced highlights

Legacy calibration, is supported via the Color Pilot Preferences





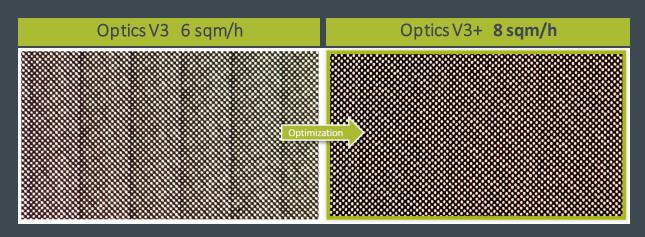


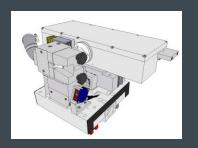
Optics v3+



Optics v3+ (Commercial release at Drupa)

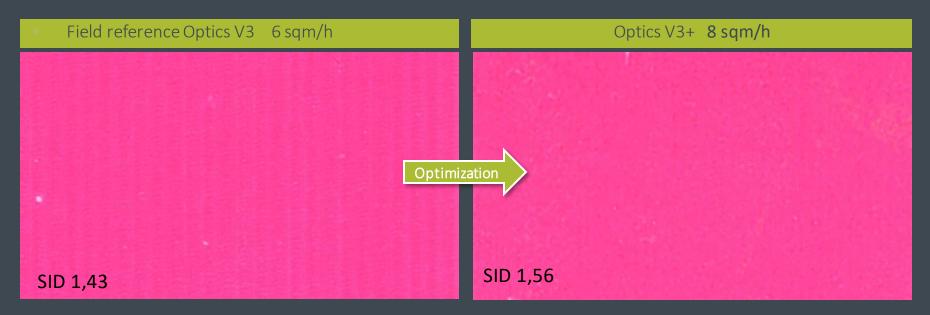
- Optics v3+ with digitally enhanced beam balancing and focus search, offering:
 - ✓ Productivity: Up to <u>30% Productivity increase</u> at 4.000ppi & <u>Pixel+</u> WSI Microcells/Crystal Screening for Optics 80 and Optics 100 (no productivity increase for Optics 40)
 - ✓ Quality: Significant *quality improvement* for Pixel+ imaging
 - 30% better Pixel+ dot size homogeneity → no "stripes", improved ink laydown





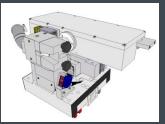


Optics v3+ (Commercial release at Drupa)



Optics V3+ delivers

- ✓ Quality: More homogeneous ink laydown (reduced pin holes, no stripes)
- ✓ Ink density: (SID) improvement

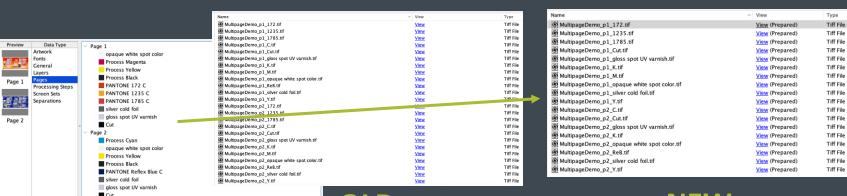


Imaging Engine



Imaging Engine 24.03 - Multipage output

- Multipage output for Screened and CIP3 output has been optimised
 - Only separations from each page separately are generated: separations which only consist of registration marks, because that separation is used on another page of the same input file, are no longer generated



NFW

No empty separations (only containing marks)



Imaging Engine 24.03 – TIFF Post rip tool

- TIFF Post rip tool (for FlexRip and NexusRip migrations)
 - Use case: As a customer with non-CDI hardware, I want the TIFF files generated by Imaging Engine to be compatible with my device
 - FlexRIP and Nexus RIP both offered a number of special options, often for compatibility with specific devices. To avoid creating user complexity we have created a **post rip tool**.
- Current supported features:
 - Strip size: size of the strip can be overruled
 - Endian choice: overrule to write big-endian files
- Please see the Knowledge Base article for full details :
 - https://eskoprodcustomers.force.com/s/article/Imaging-Engine-Post-Processing-on-TIFF-files



FlexRip – End of Life

FlexRip is a packaging specific RIP platformed which has served Esko customers well since it was introduced, but from 2014 onwards Esko started to migrate customers to Imaging Engine (based on Adobe APPE PDF technology) to support the transition to a native PDF workflow.

Here is advance notice of some **important changes** coming to how Esko will support FlexRip in the future:

- Until the next major release 25.03 is available we provide Full Support.
 - We provide support via the regular channels (telephone, Support Portal, e-mail and chat).
 - o In case the software shows anomalies compared to the specifications (issues), we provide a solution.
 - In case of a critical issue, we create a hot fix or provide a workaround.
 - In case of minor issue, a fix may be included in a next release or a workaround may be provided.
- The next 2 years after the succeeding release we provide Limited Support.
 - We provide support via our regular channels (telephone, Support Portal, e-mail and chat).
 - o Existing fixes remain available, no new fixes are created.
- After that: no guaranteed support.



FlexRip – End of Life

If you are no longer using FlexRip and have upgraded already to Imaging Engine, then you are all set. If your FlexRip is covered by a care plan with Esko, then this will include an upgrade to Imaging Engine software. You can run Imaging Engine in parallel with your FlexRip to get used to the new software and transfer production work to it.

If you have not migrated to Imaging Engine yet. Here is some of the benefits you will enjoy:

- Based on Adobe's worldwide used APPE (Adobe PDF Print Engine)
- Latest Windows support
- Multi-processor/Multi-threading 64 bit RIP
 - o Scalable performance
 - Higher throughput
- Native PDF support
 - Processing Steps support
 - Dynamic Marks support
- Simplified user interface via Automation Engine Pilot (1 location only)



FlexRip – End of Life

- In-rip generation of **viewing files** for reduced waiting times
- Support for **printing conditions** to optimize screens and curves for the press
- Support for advanced **Crystal screening** optimized for CDI & Crystal XPS
- Print simulation files to do QA for advanced screening (Crystal screens, Concentric, ...)
- In-rip scum dots clean up
- Pre-rip and multithreaded Image Resampling for improved performance

To learn more about the differences between FlexRip and Imaging Engine see this <u>Knowledge Base</u> which is answering **Frequently Asked Questions**

If you are still using FlexProof there are additional benefits that come with an upgrade to Pack Proof. As well as the new Imaging Engine RIP, this upgrade includes color management enhancements that produce more accurate and consistent color results on proof. As with FlexRip, the software upgrade is included in the care plan but you may need Esko services for training.



CDI & XPS



New Certified plates

Corrugated	Flexibles
Asahi LGR 2.84 (112)	DuPont LFH 1.70 (067)
Asahi LGR 3.18 (125)	
Asahi LGR 3.94 (155)	
XSYS FSC 4.70 (185)	
XSYS FSC 5.50 (217)	
XSYS FSC 6.00 (236)	
XSYS FTC 4.32 (170)	



Concentric



Concentric screening

- Concentric screening: application guide now available
 - Please refer to the 24.03 <u>Documentation page</u>



