What's new in Imaging Engine FlexRip 12

15th June 2012

David Harris

Product Manager

What is new in Imaging Engine FlexRip 12

1. CurvePilot
   - Automated target measurements for PressSync
   - Support TED format
2. Screening
   - Possibility of more custom screens
   - Updates to HD Flexo: support for new plate types, flat top dots etc
3. Quality improvements
   - Improved RIPping of CT images
4. Miscellaneous changes

CurvePilot

1

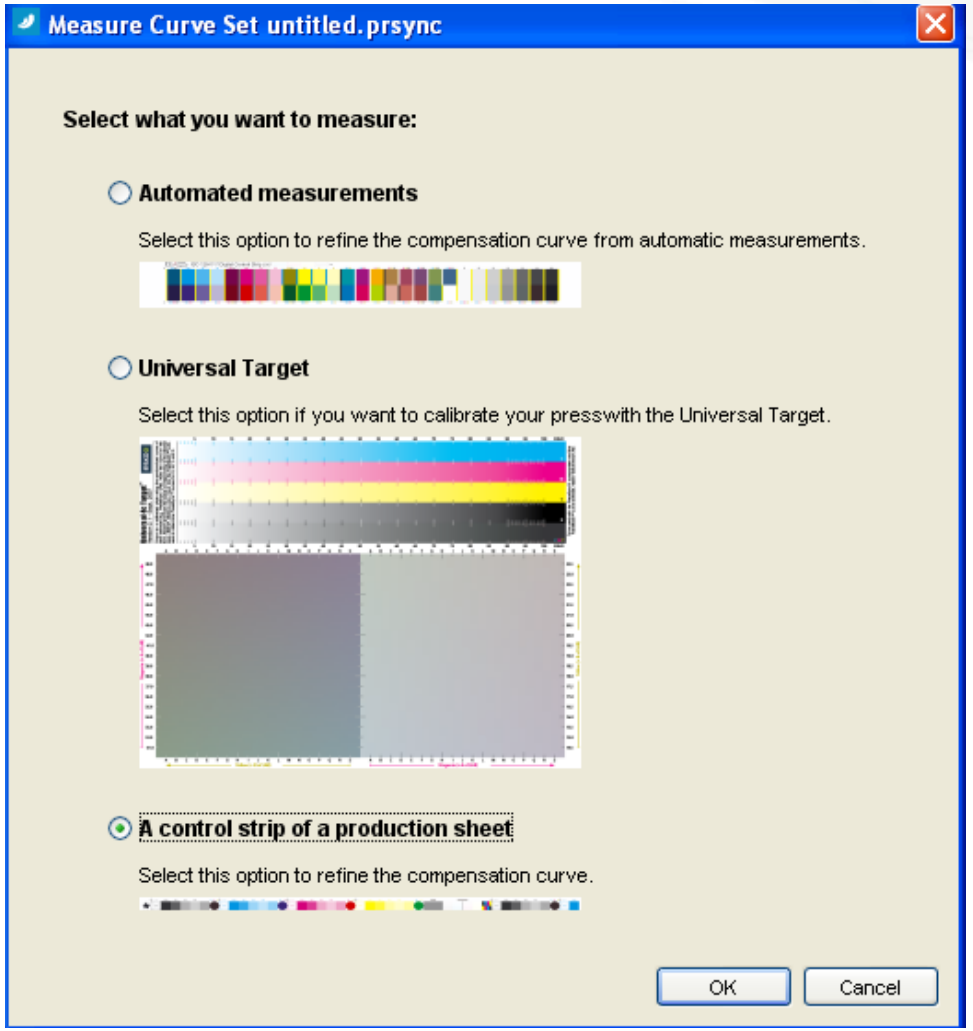
CurvePilot

- PressSync
  - Can read calibration targets (eg P2P) using a spectro
  - Import CGATS files measured from such targets by eg. MeasureTool
  - Average multiple measurements
  - See following slides and the release notes for more information

- TED format
  - This is a format to interchange DGC curves between applications
  - Invented by Esko but proposed as an ISO standard
  - Files can be output by Curve2 and Alwan software (and others in future)
  - Import these files to use them on FlexRip

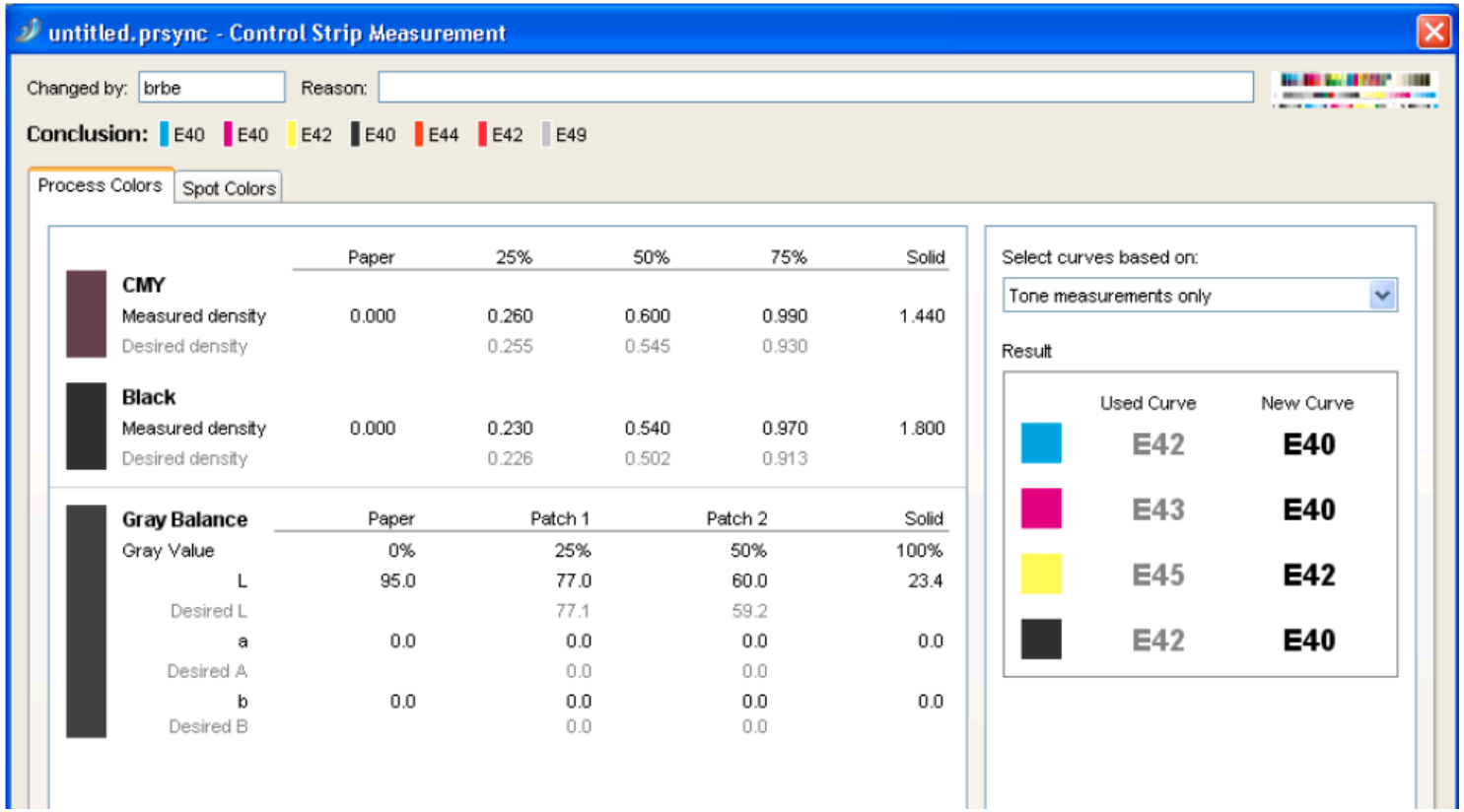
PressSync: measurement options in Suite 12

- Control strip
  - As in Suite 10.1
- Universal target
  - As in Suite 10.1
- Direct from spectro
  - Supports same devices as Color Engine Pilot
- Load CGATS file
  - Eg from MeasureTool or other color software



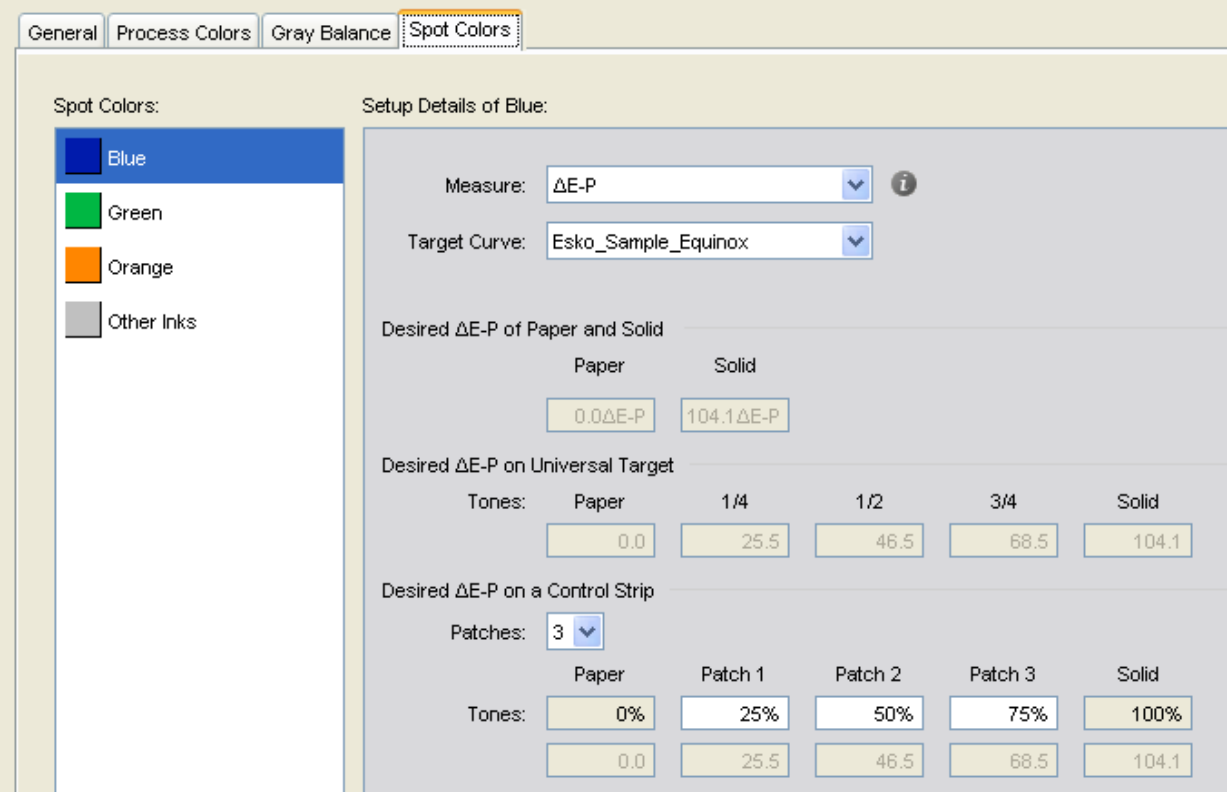
Curve to match standard

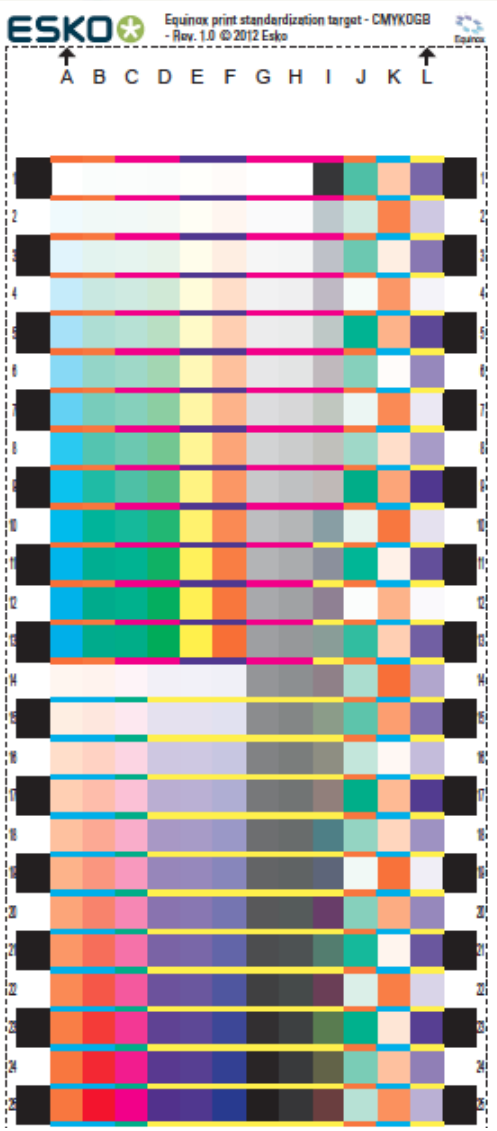
- Built in support for GRACoL and ISO
- Or use any color profile to set the standard



Expanded gamut support

- Choose metrics for additional colors
- Built in “P2P” style target



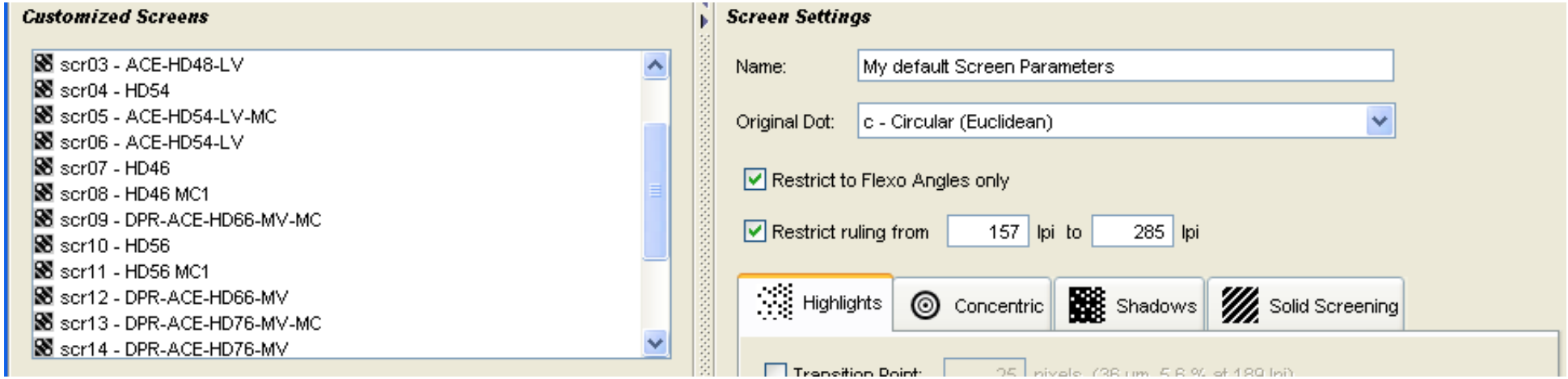


Screening

2

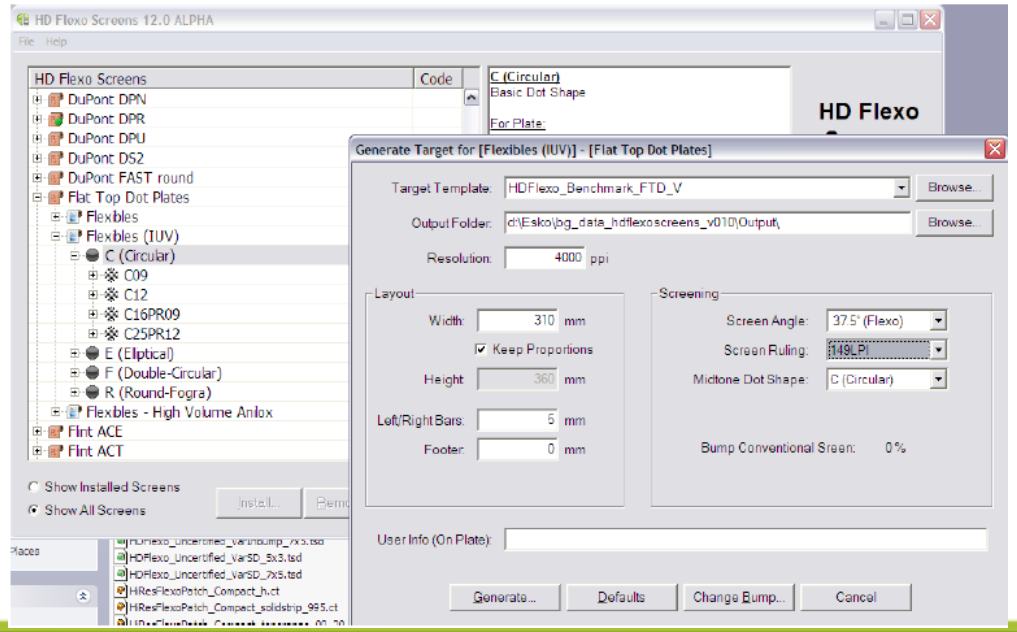
More custom screens

- In the current version you can only have 30 custom screens
  - Eg SCR01 – SCR30
  - Or HD01 – HD30
- This is a long standing limitation for screen-intensive customers
- In Suite12 onwards the limit is increased to **99** screens
  - SCR01 – SCR99
  - HD01 – HD99



HD Flexo updates

- New version (12) of HD Screens installer
- New screens database
  - Support for new plate types, flat top dots, Pixel+
- Refer to HD release notes for more information
- Contact Global Support Flexo (HD-Flexo-IZ@esko.com) for technical questions on HD



Quality improvements

3

Image quality enhancements

- In the current version FlexRip renders CTs at a fixed resolution
  - In most cases this gives good quality and good performance
- In some cases customers experienced reduced image quality
  - Eg image pixel shifts or pixelisation, broken dots
  - Solution was to render CTs at full output resolution (but this reduced performance)

- In Suite12, the RIP has options in the expose panel
  - *Don't resample* (the default): avoids most image pixel shifts (due to a better positioning algorithm)
  - *Resample to highest CT resolution from job*: fixes the remaining image shift problems, with the least upscaling possible without data loss. Speed is typically slightly slower, sometimes a lot slower, sometimes faster
  - *Resample to automatic chosen resolution*: reduces broken dot problems, by interpolating images to at least 1000 ppi
  - *Resample to output resolution*: the last and slowest one: calculate everything at output resolution (same as before, but now available from the ticket)

Miscellaneous

4

Miscellaneous and technical changes

- Support for PantoneLIVE ink books
  - Relevant to FlexProof flavors
- Update to Adobe PDF Library 10.0.1
- PostScript channel is “frozen”
  - Because it is not compatible with the new PDF library
  - Means that PostScript input will not support new features (eg PantoneLIVE)
- XMP in output files
  - Digital film XMP now contains a unique Plate ID
    - The plate ID can be imaged on the plate (by Grapholas) or written on the plate (Digital Flexo Suite)
    - The plate ID can be used to identify the correct LEN file for re-imaging
  - Full dot shape information saved in the XMP