HDFLEXO SCREENS RELEASE NOTES

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HDFLEXO SCREENS 14.0

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

SOFTWARE CHANGES

Minor User Interface change: the left or right panel can now be enlarged by moving the middle split bar. This allows users to see more information about the available screens and their long screen name, or to see more detailed information about a selected HDFlexo screen.
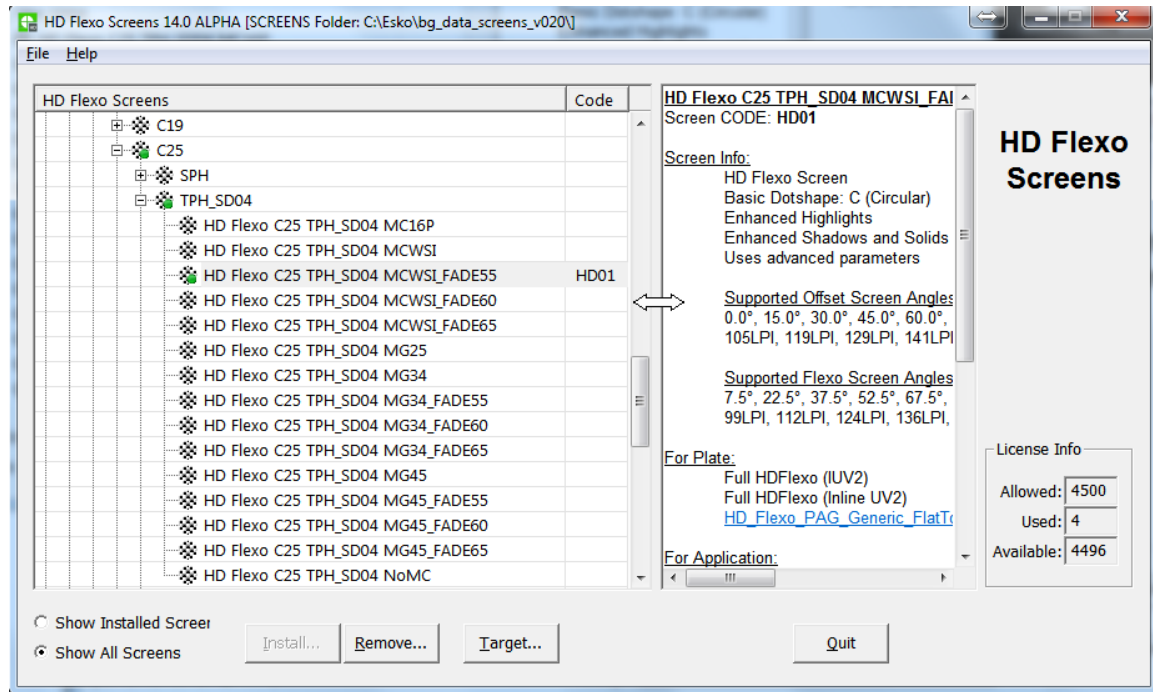
HDFLEXO DATABASE CHANGES

The HDFlexo database version that is released with HDFlexo 14.0 is DB4400.

This database has the following changes compared to the previously released versions:

DIFFERENCE BETWEEN DB4400 AND DB4300

DUPONT DFUV

New plate type: DuPont DuPont™ Cyrel® FAST DFUV - Thermal

For more information on this plate type, see the DuPont web page:
http://www2.dupont.com/Packaging_Graphics/en_US/DFUV/

Available screen sets for Dupont DFUV plate:

Flexibles – High Volume Anilox

Surface screening - microcell options:

- Microcells can be used in screen or in solids only

- Available microcells: MC07P_H, MC09P_H, MC09P_L, MC12P, MC16P

Flexibles – Low Volume Anilox

Highlight effect:

- Technology: Smooth Perfect Highlights

- Internal Bump: 1%

- Transitions and support dots
  TP27, support dot 5pixels
  TP29, support dot 7pixels
  TP31, support dot 7pixels
  TP36, support dot 7pixels

Surface screening - microcell options:

- Using microcells is optionally (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

Flexibles – Medium Volume Anilox

Highlight effect:

- Technology: Traditional Perfect Highlights

- Internal Bump: 1.5%

- Transitions and support dots
  TP56, No Support Dot
  TP66, No Support Dot
  TP76, No Support Dot
  TP86, No Support Dot

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

Folding Carton

Highlight effect:

- Technology: Smooth Perfect Highlights

- Internal Bump: 1.0%

- Transitions and support dots
  TP23, Support Dot 5pixels
  TP27, Support Dot 5pixels
  TP29, Support Dot 7pixels
  TP31, Support Dot 7pixels

No Surface screening - microcell options

Labels

Highlight effect:

- Technology: Smooth Perfect Highlights

- Internal Bump: 1.0%

- Transitions and support dots
  TP23, Support Dot 5pixels
  TP27, Support Dot 7pixels
  TP29, Support Dot 7pixels
  TP31, Support Dot 7pixels

No Surface screening - microcell options

DANTEX DOPM

Changed screen sets:

Labels

Highlight effect

- Changed Technology: From Smooth to Traditional Perfect Highlights

- Changed Internal Bump: From 1.0% to no internal bump

- Changed Transitions and support dots: from TP25,30,36,45 to
  TP12, No Support Dot
  TP16, No Support Dot
  TP20, No Support Dot
  TP24, No Support Dot

Added screen sets:

Flexibles

Highlight effect:

- Technology: Traditional Perfect Highlights

- No Internal Bump

- Transitions and support dots
  TP28, No Support Dot
  TP32, No Support Dot
  TP36, No Support Dot
  TP40, No Support Dot

Surface screening - microcell options:

- Using microcells is optionally (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

DIFFERENCE BETWEEN DB4300 AND DB4200

MACDERMID DMCH

New plate type: MacDermid Digital MCH - Solvent Plate

For more information on this plate type, see the MacDermid web page:
http://printing.macdermid.com

Available screen sets for MacDermid DMCH plate:

Flexibles – Low Volume Anilox

Highlight Effect:

- Technology: Smooth Perfect Highlights

- Internal Bump: 1%

- Transitions and support dots:
  TP36, support dot 16pix
  TP46, support dot 24 pix
  TP 56, support dot 24 pix
  TP 66, support dot 24pix

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

Flexibles – Medium Volume Anilox

Highlight Effect:

- Technology: Traditional Perfect Highlights

- Internal Bump: 1.0%

- Transitions and support dots:
  TP36, support dot 16pix
  TP46, support dot 24 pix
  TP 56, support dot 24 pix
  TP 66, support dot 24pix

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

MACDERMID UVR

New plate type: MacDermid UVR - Solvent Plate

For more information on this plate type, see the MacDermid web page:
http://printing.macdermid.com

Available screen sets for MacDermid UVR plate:

Flexibles – Low Volume Anilox

Highlight Effect:

- Technology: Smooth Perfect Highlights

- Internal Bump: 1%

- Transitions and support dots:
  TP30, support dot 16pix
  TP36, support dot 16 pix
  TP 46, support dot 24 pix
  TP 56, support dot 24pix

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

Flexibles – Medium Volume Anilox

Highlight Effect:

- Technology: Traditional Perfect Highlights

- Internal Bump: 1.5%

- Transitions and support dots:
  TP36, No support dot
  TP46, No support dot

TP 56, No support dot
TP 66, No support dot

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

Labels

Highlight effect

- Technology: Smooth Perfect Highlights

- Internal Bump: 1.0%

- Transitions and support dots:
  TP25, support dot 7pix
  TP29, support dot 7pix
  TP32, support dot 7pix
  TP36, support dot 7pix

No Surface screening - microcell options

MACDERMID MVP

New plate type: MacDermid MVP - Solvent Plate

For more information on this plate type, see the MacDermid web page:
http://printing.macdermid.com

Available screen sets for MacDermid MVP plate:

Flexibles – Low Volume Anilox

Highlight Effect:

- Technology: Smooth Perfect Highlights

- Internal Bump: 1%

- Transitions and support dots:
  TP30, support dot 16pix
  TP35, support dot 16 pix
  TP 40, support dot 24 pix
  TP 46, support dot 24pix

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

Flexibles – Medium Volume Anilox

Highlight Effect:

- Technology: Traditional Perfect Highlights

- Internal Bump: 1.5%

- Transitions and support dots:
  TP 30, No support dot
  TP 36, No support dot
  TP 46, No support dot
  TP 56, No support dot

Surface screening - microcell options:

- Using microcells is optional (select 'NoMC' screen if no surface screening should be used)

- Microcells are used both in screen and solids

- Available microcells: MC09P_H, MC09P_L, MC12P, MC16P

GENERAL LETTERPRESS

Change screen set:

Letterpress (Uncertified)

Highlight effect

- Technology: Traditional Perfect Highlights

- No internal bump

- Changed Transitions and support dots: from TP04,06,09,16 to
  TP08, No Support Dot
  TP12, No Support Dot
  TP16, No Support Dot
  TP20, No Support Dot

DUPONT DIGIFLOW

Screen sets for DuPont Digiflow that don't make use of P+ CDI technology are now also distributed in the HDFlexo base database version DB4300 or higher.

For more detailed information about the different screen sets for DuPont Digiflow, please contact your DuPont representative.
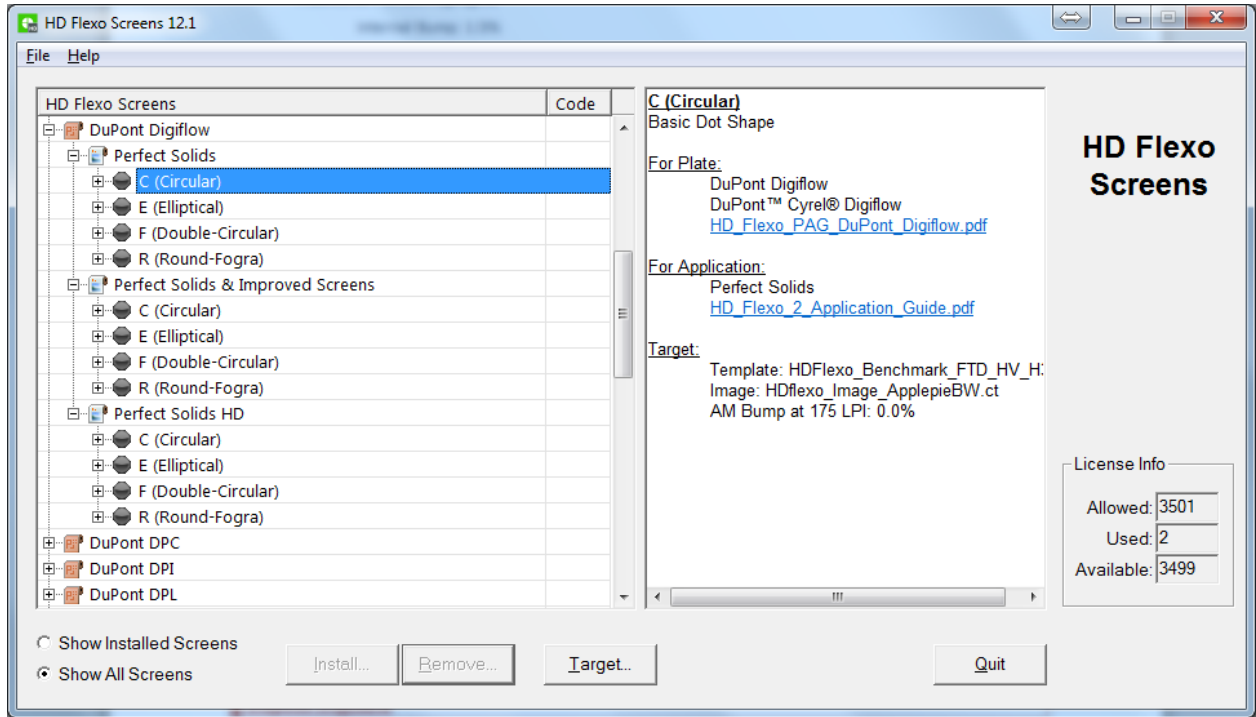

Figure 1: DuPont Digiflow screen sets

HDFLEXO SCREENS 12.0

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

HDFLEXO SCREENS 2.1.1

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

TARGET GENERATION CHANGES

- Target/test job generation: Support for preventing fine solids (e.g. text) in samples from being perforated.

This is done by supporting CT images with an extra layer, containing the fine solids only. This layer is not screened (so solids are not perforated with uCells), and will be overlaid over the main CT image.

In this release, CT images that are currently used in most test job templates are replaced with new CT images that have this extra layer.

This feature is on by default: if CTs have an extra solid layer it will be used unscreened. The feature can be reset in the test job templates (it can be edited with ScreenManager 10.1.1 or later).

- Intensity scaled CTs.
  For some plate or plate exposure types (e.g. Flat Top Dot), dog gain in initial levels increases very rapidly. Therefore it is useful to have sub-levels, so that a more accurate DGC curve can be constructed.
  Test jobs can now contain samples with CTs, that can be intensity scaled.
  The intensity is scaled according to the name of the CT file.
  E.g. For a CT file with the name HiResFlexoPatch_Compact_tonerange_00_40_v.ct, CT-step 0 to 255 will be screened from 0 to 40%.

  Examples of templates that use intensity-scaled CTs are:
  HDFlexo_Benchmark_FlatTopDot_V.tsd (Default for flat top dot like plates)
  HDFlexo_Benchmark_FlatTopDot_V_Large.tsd (tests 16 different screens)
  HDFlexo_Benchmark_FlatTopDot_V_MV_Large.tsd (tests 16 different screens MV)

HDFLEXO DATABASE CHANGES

Changes from **DB4038** (released with HDFlexo 2.1)

To **DB4060** (released with HDFlexo 2.1.1)

PLATE/APPLICATION CHANGES

Plate: *Flat Top Dot*

Application: *Flexibles (Inline UV)*

=> Added WSI pattern

HDFLEXO SCREENS 2.1 – CUSTOMER RELEASE

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

GENERAL CHANGES

- Screen Database Version 4038 (see below).

- Support for extra fine uCell shapes (typically used for Flat Top Dot plates)

- Bug fixes using uCells for seamless screening

- Added uCell test v6 test job template

- Changed bitmap on benchmark test job templates for verifying behavior of isolated dots better.
  The bitmap now contains 3 rows of patterns.
  1st row: identical as before, square shaped dots with ruling at about 200LPI
  2nd row: square shaped dots with ruling at about 100LPI
  3rd row: square shaped dots with ruling at about 65LPI
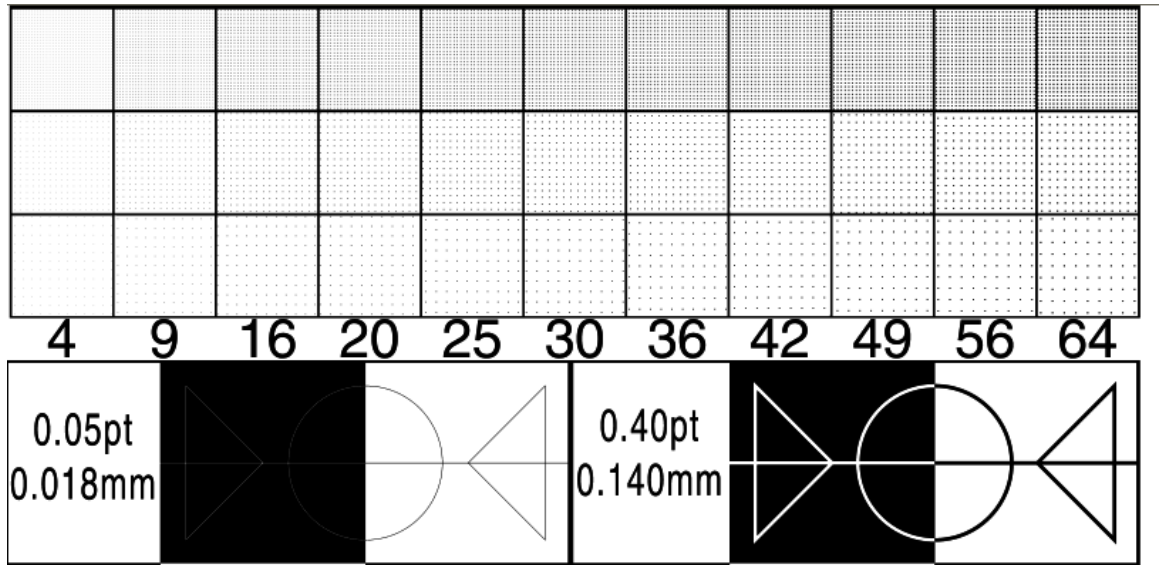
HDFLEXO DATABASE CHANGES

Changes from **DB4032** (released with HDFlexo 2.0.2)

To **DB4038** (released with HDFlexo 2.1)

DATABASE BUG FIXES

Plate: ***Dupont DPN***

Application: ***Flexibles Low Volume***

> => Screen with transition 36 was not on the test job

PLATE/APPLICATION CHANGES

Plate: ***Flint SPRINT***

Application: ***Labels***

> => Transitions increased: From 6,8,12,16 to 12,16,20,24

> => Internal bump set to 1%

Plate: ***MacDermid LUX***

Application: ***Flexibles***

> => internal bump removed (was 1.5%)

Plate: ***MacDermid LUX***

Application: ***Corrugated***

> => Added uCells to corrugated application

Plate: ***Dantex DOPM***

Application: ***Labels***

> => Transitions increased: From 4,6,9,16 to 25,30,36,45

> => Internal bump set to 1%

=> AM bump set to 2.5% at 150LPI

Plate: *Flat Top Dot plates*

Application: *Flexibles*

=> new uCell types

MC2x3N,

MC3x3C,

MG24_45,

MG25_45,

MG35_45

NEW PLATE/APPLICATIONS

Plate: *Flat Top Dot plates*

Application: *Flexibles (inline UV)*

=> similar to Flat Top Dot plates - Flexibles, but with more and finer uCell pattern types

HDFLEXO SCREENS 2.0 – CUSTOMER RELEASE

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

Changes:

- Comes with Screen Database Version 4020, containing new plates, applications and screens.

- Licensing based on Plate count only.

- Selectable testjob layouts.

HDFLEXO SCREENS 1.1 – CUSTOMER RELEASE

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

Changes:

- Support for new database version (4xxx), that can handle more screening technologies.

- Comes with Screen Database Version 4005, that has an extended range of printing applications and plate types.

HDFLEXO SCREENS 1.0 – CUSTOMER RELEASE

1st Customer version.

Available documentation:

See the HD Flexo documentation, available as online help from your HD Flexo application.

APPENDIX A: TELESCOPE SUPPORT

HDFlexo Screens is telescope-enabled.

The following '**Product Specific Information**' is retrieved:

HD Flexo Screens 1.0		
HD Flexo Screens 1.1		
HD Flexo Screens 2.0		
Product identifier	hdflexoscreens	
Version v010		
Version v011		
Version v020		
Base Pack		
Product name	HD Flexo Screens 2.0	
Category	OTHER	
Kit Ident	HD Flexo Screens 2.0.2 Build 68	
Kit Date	24/11/2010 13:39:26 [24/11/2010 12:39:26]	
Installation Date	24/11/2010 13:40:00 [24/11/2010 12:40:00]	
Tree		
Tree Path	d:\Esko\bg_data_hdflexoscreens_v010	
Tree Name	bg_data_hdflexoscreens_v010	
Tree		
Tree Path	d:\Esko\bg_prog_hdflexoscreens_v020	
Tree Name	bg_prog_hdflexoscreens_v020	
Product Specific Information		
ScreenDB Info		
Version	4020	
Date Last Database Update	Thu Nov 25 10:55:21 2010	
Date Last Screen Install	Thu Nov 25 10:55:21 2010	
HD Flexo Screens Info		
Consumed Licenses	5	
Installed Screens	5	
Installed Screen # 1		
Screen Long Name	HD Flexo C25 - Asahi DEF - FoldingCarton	
Screen Code	HD05	
Installed Screen # 2		
Screen Long Name	HD Flexo C_MCSolids MC09P_HH - DuPont DFQ(A) - Flexible-HV	
Screen Code	HD01	
Installed Screen # 3		
Screen Long Name	HD Flexo C25 MC09P_HH - DuPont DPN - Flexible-LV	
Screen Code	HD03	
Installed Screen # 4		
Screen Long Name	HD Flexo C16 MC16P - Flat Top Dot Plates - Flexibles	
Screen Code	HD04	
Installed Screen # 5		
Screen Long Name	HD Flexo C66 MC09P_L - Flint ACE - Flexible-MV	
Screen Code	HD02	
History		
Last Screen Installed	HD Flexo C25 - Asahi DEF - FoldingCarton	
Last Screen Removed	HD Flexo C42 - DuPont DFQ(B) - Labels	
Number Of Plate Swaps	7	
Date Last Plate Swap	Wed Nov 24 09:44:37 2010	

To verify the Telescope information, perform the following tasks:

1. Start the EGSystemInforTool on any workstation were EG System Information is installed.
   \Esko\bg_prog_egsis_v010\bin_ix86\EGSystemInfoTool.exe
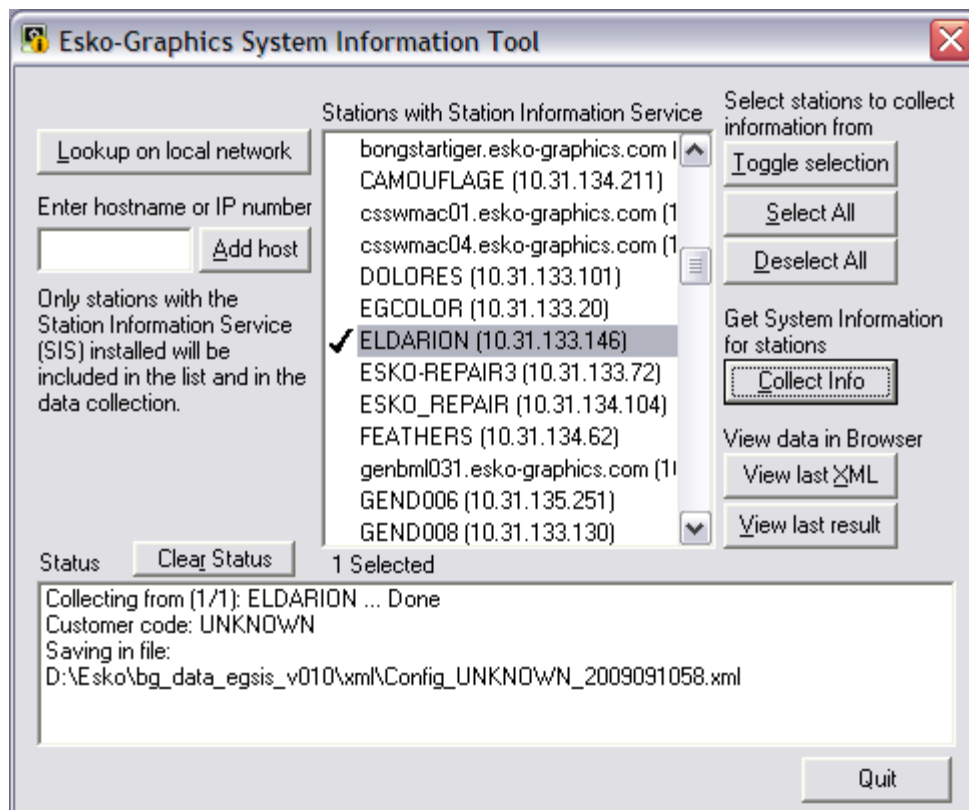
2. Select the station where FlexRIP and HDFlexo Screens is installed.

3. Click the **Collect Info** button, and the information of the station will be retrieved.

4. Click the **View last result** button to view the information.

5. In the HTML page, expand **Esko Software**, and search for **HD Flexo Screens.**