Kodak

Adjusting Edge Detection on a Magnus 400 Quantum

Platesetter

Adjustment/Alignment Procedure

English

731-01008A-EN Rev A

Copyright

© 2007 Kodak. All rights reserved.

Creo, Lotem, and Magnus are trademarks of Kodak.

Adobe, Acrobat, Adobe Illustrator, Distiller, Photoshop, PostScript, and PageMaker are trademarks of Adobe Systems Incorporated.

Apple, iMac, Power Macintosh, Mac OS, AppleShare, AppleTalk, TrueType, ImageWriter, and LaserWriter are registered trademarks of Apple Computer, Inc. Macintosh is a trademark of Apple Computer, Inc., registered in the U.S.A. and other countries.

PANTONE, Hexachrome, PANTONE Hexachrome, and PANTONE MATCHING SYSTEM are the property of Pantone, Inc.

PEARL, PEARLsetter, PEARLhdp, PEARLdry, and PEARLgold are registered trademarks of Presstek, Inc.

XEROX® is a trademark of XEROX CORPORATION.

http://graphics.kodak.com/

Internal 731-01008A-EN Rev A

Revised May 2007

Contents

Product 1
Background 1
Procedure 1
Technical Contact(s) 3
Date Submitted 3
Last Updated 3

Product

- Kodak® Magnus™ 400 Quantum platesetter

Background

This procedure describes how to adjust edge detection on the Magnus 400 Quantum platesetter.

Procedure

1. Load a 0.3×622×750 mm (.012×24.49×29.53 in.) plate.
2. In Kodak Service Shell, define the parameters of the plate on which you want to perform edge detection. At the `Quantum>>` command prompt, type `Load X Y Z W N`.

   Where:
   `X` = plate main scan size
   `Y` = plate subscan size
   `Z` = plate thickness
   `W` = media type: `plate=9`
   `N` = media name index: `Kodak=1/Horsell=2`

   For example, to load a Kodak 622×750×0.3 plate, at the `Quantum>>` command prompt, type `Load 622 750 300 9 1`.

   Note: Alternatively, at the `Quantum>>` command prompt, you can type `Loaded>Load 622 750 300> Loaded`.

   Verify that the following table appears on the Service Shell monitor:

```
                Drum is LOADED with the following:
Media Type              : plate (9)
Load Method             : Manual
MainScan length         622 mm              [330 mm ... 1030 mm]
SubScan length          : 750mm             [381 mm ... 1150 mm]
Thickness               : 300 microns       [microns - range undefined]
Media Index             : 3 (KpgmHDCyan)
Image Side              : 0
Unload Schedules        : False
*** Command Complete
```

3. Perform calibration with maximum laser power. The surface reflectivity (SR) value should be 0.011.
   a. At the `Quantum>>` command prompt, type `redirect enable` and press ENTER. This enables you to toggle between the `Quantum>>` and `Th2>>` command prompts.
   a. At the `Th2>>` command prompt, type `set med X sr`.
   b. On a piece of paper, write down the value that is returned so that you can restore this value at the end of the procedure.
   c. At the `Th2>>` command prompt, type `set med X sr 0.011`.
   d. To return to the `Quantum>>` command prompt, type `redirect disable` and press ENTER.
4. At the `QUANTUM>>` command prompt, type the following commands:
   ```
   media X
   carriage init
   head install on
   ```
5. In the Kodak Magnus 400 Controller software, rotate the drum to position **196**.

   When the laser is positioned on the sum=0 gutter or when the laser is positioned on the drum and sum is more than 800, rotate the drum in incremental steps of 1 mm (.04 in.) to locate the edge gutter range.
6. At the `QUANTUM>>` command prompt, type the following commands:
   ```
   head install off
   drum
   ```
   The drum position parameter is returned—for example, `drum position=82.422`.
7. To update the parameter with the returned value, at the `QUANTUM>>` command prompt, type `set edge drumpos 82.422`.
8. To perform an edge test, at the `Quantum>>` command prompt, type `edge test`.

   After the plate is loaded, the plate-edge position is returned in micron units.
9. Repeat the edge test ten times to verify a maximum deviation of 20 microns.
10. To restore the laser power to its original value (the value that you wrote down in step 3b), redirect to the `Th2>>` command prompt. At the `Quantum>>` command prompt, type `redirect enable` and press ENTER.
11. At the `Th2>>` command prompt, type `set med X sr <original value>`.
12. (Optional) To clear the parameters of the previously loaded plate, return to the `Quantum>>` command prompt. At the `TH2>>` command prompt, type `redirect disable` and press ENTER.
13. At the `Quantum>>` command prompt, type `Unload`.

Technical Contact(s)

Content owner: Mario Amir

See the Escalation page for escalation contacts.

Date Submitted

30 Jan 2007

Last Updated