

User's Guide

**Batch Feeder for
Flextight 848 and 949 Scanners**

by Hasselblad



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Feeder for Hasselblad Flextight 848 and 949 Scanners User's Guide, Part No 70030031, revision E.

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Table of Contents

Introduction	4
Important Warnings and Restrictions	4
System Requirements	5
Batch Feeder Diagram	6
Preparing the Feeder for First Use or after Shipping	7
Mounting and Unmounting the Batch Feeder	8
Mounting the Batch Feeder	8
Unmounting the Batch Feeder	12
Loading Originals into the Feeder	14
Scanning with the Batch Feeder	16
Batch Scanning with 3F	16
Custom Setups and Single Scans	19
Troubleshooting	22
Aligning the Feeder	23
Adjusting the Feeder Angle	23
Adjusting the Load Position	25
Preparing the Feeder for Storage or Shipping	31
Storing the Feeder	31
Shipping the Feeder	31
Preventive Maintenance	33
Disposal	33
Technical Information	34
Specifications	34
CE Declaration	35

Introduction

The Batch Feeder enables you to load up to 10 original holders (up to 60 originals, depending on format) for batch scanning with your Flextight 848 or 949 Scanner.

This manual provides important information about using the Batch Feeder for your Flextight 848 or 949 scanner.

Topics include:

- Important warnings and restrictions
- System requirements
- Installation instructions
- Operating instructions
- Instructions for preparing the unit for transportation
- Disposal instructions

Important Warnings and Restrictions

General

- Read all of the included documentation before attempting to install and use the Batch Feeder.
 - Never attach or detach the Feeder when the scanner is switched on.
 - Always use the standard, software-guided procedure when mounting or unmounting the Feeder from your scanner. See “Mounting and Unmounting the Batch Feeder” on page 8 for details.
 - Keep the original box in which the Feeder was delivered to you. This box is made of sturdy cardboard and includes a foam lining custom cut to hold the Feeder safely and securely. Always store the Feeder in this box when you are not using it.
 - Before shipping the Feeder, always refit the two transportation safety screws and pack it in its original box. If you must return the Feeder to Hasselblad for service, you must use this box for shipping or the shipment will be refused. See “Preparing the Feeder for Storage or Shipping” on page 31 for instructions.
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- When you switch on the scanner, the Feeder will position itself into its “home” position, if not already there. Do not touch the Feeder while the magazine is moving.
- Before servicing the scanner and/or Feeder, the power supply must be disconnected from the mains (unplugged). It is not sufficient simply to press the on/off button on the scanner.
- Install the scanner and Feeder in a location where they are not accessible by children. The units contain small openings and moving parts that can cause injury.
- When using the Feeder, a huge amount of data is generated. Make sure to allocate ample hard disk space for scanned images on the disk of the attached host computer.

When Operating the Feeder

- Do not touch the Feeder while the magazine is moving.
- Do not touch the originals or the original holders during scanning.
- Do not start scanning or previewing until an original holder with an original has been mounted.
- Flexible original holders are only to be mounted or removed when the drum is in the load position.

System Requirements

For All Users

- Hasselblad Flextight 848 or 949 Scanner.
- Additional original holders.

For Macintosh Users

- A computer running Mac OS 10.2.1 or later
- FlexColor 4.0.2 or later for Mac OS

For Windows Users

- A computer running Windows 2000 or XP
- FlexColor 4.0.2 or later for Windows

Batch Feeder Diagram

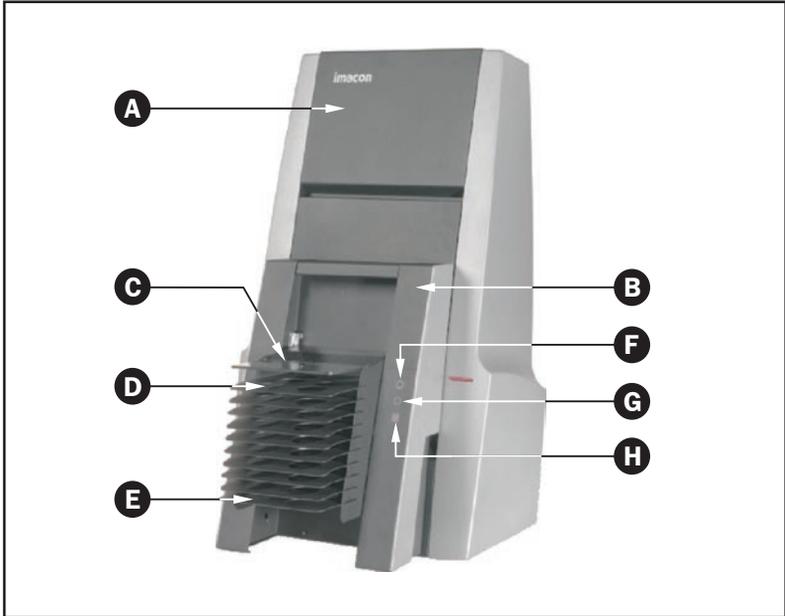


Figure 1: Hasselblad Flextight 848 Scanner with Batch Feeder

- A Hasselblad Flextight 848 (or 949) Scanner.**
- B Batch Feeder**
- C Dust cover:** to protect the originals and scanner entrance from dust.
- D Magazine:** showing original holder position 1.
- E Magazine:** showing original holder position 10.
- F Power Indicator (Green):** Remains lit when ready to scan. Flashes when the scanner is switched on.
- G Motor Drive Indicator (Yellow):** lights up when the scanner is repositioning the optics, drum or Feeder magazine.
- H Scan Indicator (Red):** lights up when scanning. Do not touch the scanner or Feeder while this indicator is lit. If the light is flashing when not scanning, then an error has occurred - please contact your Flextight dealer for assistance.

Preparing the Feeder for First Use or after Shipping

Before you begin to use the Feeder, you must remove the two shipping screws that secure the magazine during shipping. They are located near the bottom of the Feeder on the back side, as shown in Figure 2, below. On new Feeders, these are clearly marked by a label, which reminds you to remove them before use.

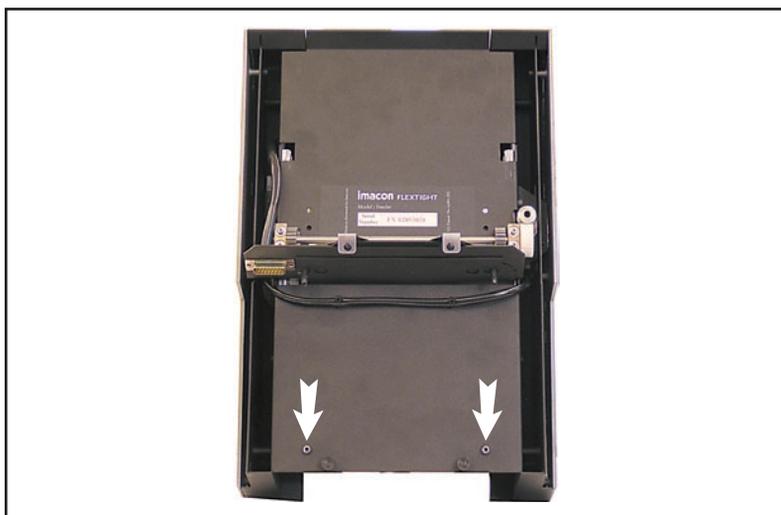


Figure 2: Location of the shipping screws on the Feeder back panel

Be sure to keep both the original packaging and the two shipping screws in a safe place. You should always store the Feeder in its original packaging while you are not using it. You must also replace the shipping screws and use the original packaging if you need to ship the Feeder (for example, to a new studio or back to Hasselblad for service).

See also “Preparing the Feeder for Storage or Shipping” on page 31 for more information about how to ship the Batch Feeder.

Mounting and Unmounting the Batch Feeder

The procedures for both mounting and unmounting the Feeder to/from your scanner require that you use the software-guided procedure, which ensures that the mechanical parts of the scanner and Feeder are correctly aligned for each step. Always use this software feature when you need to mount or unmount the Feeder. Otherwise, you may damage your Feeder and/or scanner. Also, the unmount procedure makes sure that the Feeder is correctly positioned for storage in its original box.

Mounting the Batch Feeder

Always use the software-guided procedure below to mount the Feeder. It is otherwise possible to damage the Feeder and/or scanner while mounting the Feeder

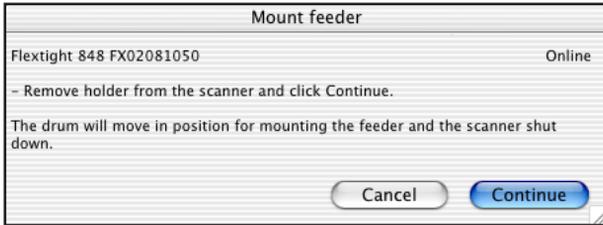
1. If you have not already done so, set up your Flextight Scanner, connect it to your computer and install the FlexColor software as described in your scanner and software user manuals. Confirm that the scanner is working correctly by making a test scan using one of the standard original holders.
 2. If there is still an original holder mounted inside the scanner, then remove it. Close the light table, if it is open, by lifting its front edge. See your scanner manual for instructions.
 3. Make sure the scanner is turned on and launch the FlexColor software. If FlexColor is already running, then quit and restart the program.
 4. Select **Maintenance > Feeder** from the FlexColor menu bar.
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5. The **Feeder** window opens.



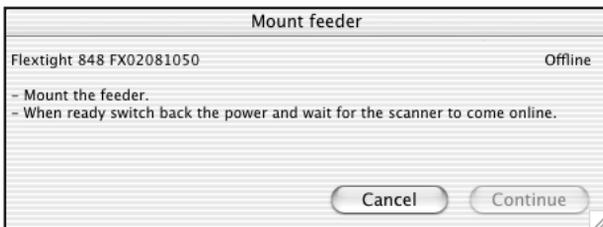
Click on the **Mount** button.

6. The **Mount feeder** window opens, which guides you through each step of mounting the Feeder. The procedure here in this manual also describes each step.



Click on the **Continue** button.

7. The scanner now positions itself to accept the Feeder and shuts itself down. The **Mount feeder** window updates with new instructions.



- Get the Batch Feeder and study its back panel. Here you should see an electronic connector (A) and a pair of mounting pins (B), as shown in Figure 3, below.

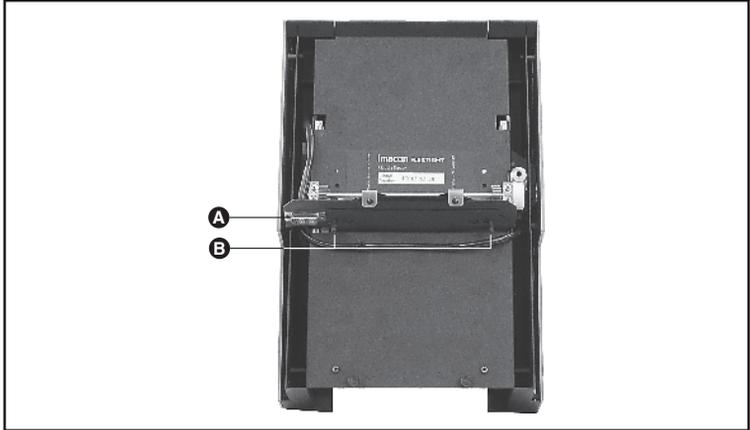


Figure 3: Back panel of the Batch Feeder, showing the electronic connector (A) and mounting pins (B).

- Lift the batch-feeder panel on the front of the Flextight Scanner and locate the connector (A) and two mounting holes (B) inside the scanner, as shown below in Figure 4. These match the pins and connector of the Feeder.

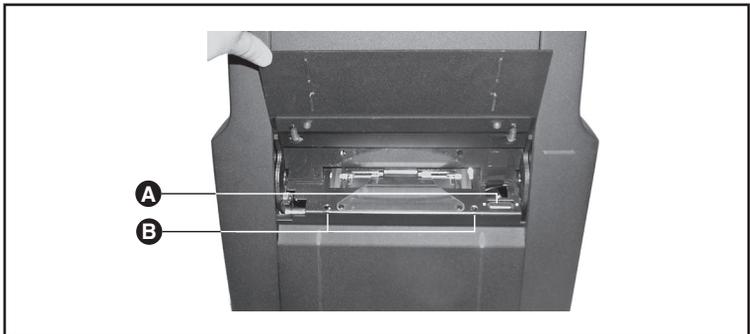
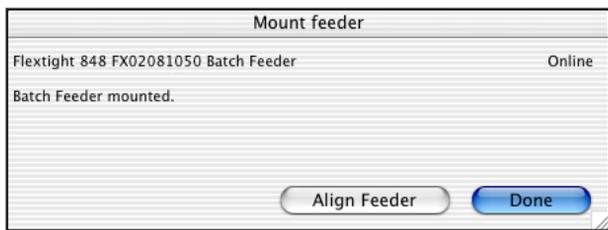


Figure 4: Flextight Scanner with the batch-feeder panel open, showing the electronic connector (A) and mounting holes (B).

10. Grasp the Batch Feeder firmly with one hand while holding the batch-scan door open on the scanner with your other hand. Align the connector and pins on the back of the Feeder with the holes and connector inside the scanner. Gently press the Feeder down and in place, making sure that the Feeder sits firmly and has a good connection with the connector.
11. Turn on the scanner by pressing its on/off switch.
12. FlexColor detects that the scanner has been turned back on. The **Mount feeder** window updates with new instructions.



Click on **Done** to close the **Mount feeder** window.

13. If you have never used the Batch Feeder before, try to load it with a full set of 10 original holders and scan them all. If the Feeder works smoothly, then you are ready to begin work. However, if the scanner has trouble moving the original holders in and out, then you may need to align the Feeder to match your individual scanner. In this case, please see "Aligning the Feeder" on page 23.

Unmounting the Batch Feeder

Always use the software-guided procedure below to unmount the Feeder. It is otherwise possible to damage the Feeder and/or scanner while unmounting the Feeder

1. Turn on the scanner and launch the FlexColor software.
2. Select **Maintenance > Feeder** from the menu bar.
3. The **Feeder** window opens.



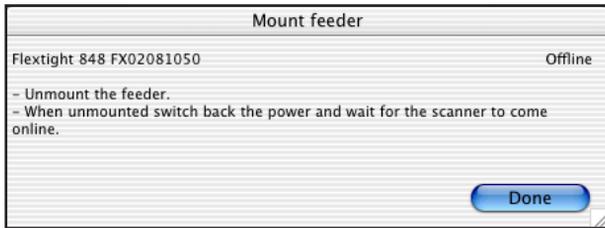
Press the **Unmount** button.

4. The feeder moves the magazine into its storage position and FlexColor displays the **Mount feeder** window.



As instructed in the window, click **Continue** to prepare the scanner and Feeder for unmounting.

- The scanner shuts down and the **Mount feeder** window updates with new instructions.



If there are original holders in the magazine, then remove them all. They should be very easy to remove—do not use force. When all original holders have been removed, remove the Feeder itself by lifting it up and away from the scanner. Always store your Feeder by placing it into its original box (see also “Preparing the Feeder for Storage or Shipping” on page 31).

- Click on **Done** to close the **Mount feeder** window. You now return to the **Feeder** window.



- Click on **Done** to close the **Feeder** window.
- If you now want to scan using the standard light table, open the light table and switch on the scanner by pressing its on/off switch.

Loading Originals into the Feeder

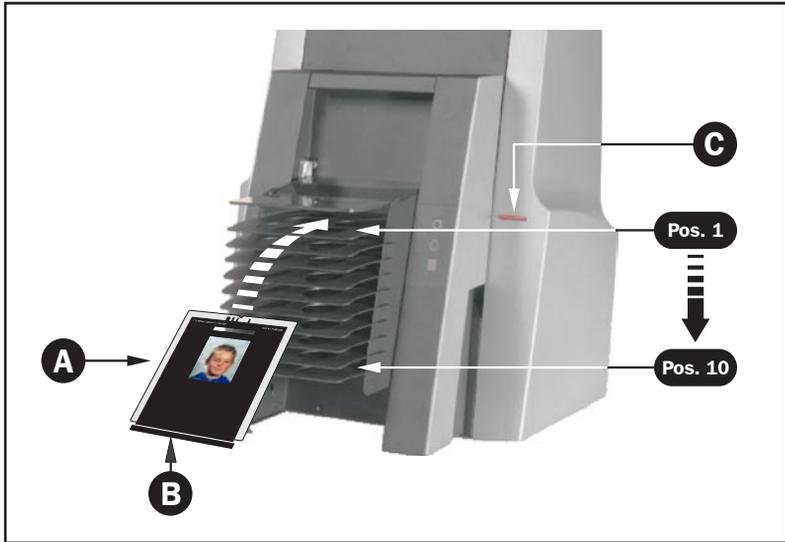


Figure 5: Loading originals into the Feeder

To load originals into Batch Feeder, refer to Figure 5 and do the following:

1. **Important! Use only original holders (A) that are fitted with the special plastic rail (B), otherwise the Feeder will not be able to unload the holder properly.**
2. Place your original into an appropriate original holder (A). See your scanner documentation for a complete description of how to work with Flextight original holders.
3. Place the original holder (A) into the first empty slot in the Feeder magazine. Slide it gently into the slot until it comes to a stop. (To remove the original holder, just slide it back out.)

NOTE! We recommend that you load original holders into the magazine from the top and down, starting from position 1.

4. Continue loading originals into holders and holders into the scanner until you have either loaded all of your originals or used all 10 slots of the Batch Feeder.
5. Go to your computer and run FlexColor. Use the batch scanning feature of the program to scan your originals as described in “Scanning with the Batch Feeder” on page 16. See also your FlexColor documentation for detailed instructions.

IMPORTANT: Do not touch or remove the original holders while the scanner is running. Always stop scanning before removing holders. One way to stop a scan in progress is to press the scanner on/off button (**C**); the scanner will then stop scanning, unload the current original holder and shut down.

Scanning with the Batch Feeder

Batch Scanning with 3f

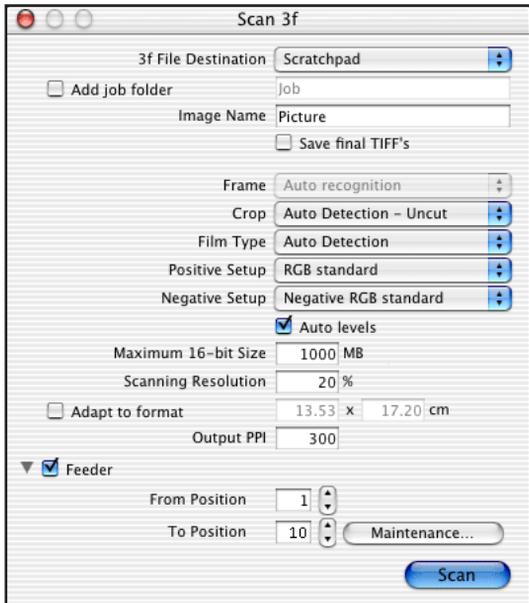
The Batch Feeder is intended as a tool for scanning large numbers of originals in a production environment. For this application, we strongly recommend the 3f workflow for maximum efficiency and flexibility.

The 3f image-file format preserves your full-resolution, 16-bit raw scans and keeps a record of settings applied to each exported image. This gives you the flexibility to use all of the image correction and sizing tools in FlexColor while ensuring that no data is lost from your original scan. Once you have made all of the required settings in FlexColor for each image, you can export TIFF or JPEG files in which all of your FlexColor settings are applied. Your settings are stored in the original 3f file, but not applied to it. If you export using different settings, then these are also stored with the original file, providing you with a history of all the exports you have made from the file. A given image might, for example, be optimized several times for use in a black & white newspaper, color brochure, poster and web page.

The 3f workflow is fully described in the *FlexColor User's Guide*. An example of how to use it in a production environment is briefly outlined below.

1. Load the Batch Feeder with up to ten originals as described in “Loading Originals into the Feeder” on page 14.
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2. Instead of using the standard preview/scan workflow in FlexColor, click on the **3f** button to open the **Scan 3f** window.



3. Make the various 3f settings as described in the FlexColor User's Guide. Note the following:
 - Use the **Destination** setting to select a parent folder in which to save your 3f files. If you would like to create a new sub-folder for each batch, mark the **Add job folder** check box; then, each time you begin a new 3f batch scan, FlexColor will create a new sub-folder below the **Destination** folder and save the new scans there. Either way, the contents of the most recently used folder will be displayed in the FlexColor **Thumbnails** window immediately after the batch is finished.
 - All images will have a name based on the value entered in the **Image Name** field, plus a unique number.
 - When the Batch Feeder is mounted, the frame is always auto detected before each scan. This is because batches are likely to contain several different original formats.

- If you have both negative and positive originals in your batch, you should set **Film Type** to “Auto Detection”. This will cause FlexColor to analyze each image to decide whether it is negative or positive. It will then use either the **Positive Setup** or **Negative Setup** that you have selected.
 - If all of your originals are either positive or negative, then you can set the **Film Type** to match (or use auto detection). In this case, only one setup selection will be available (**Positive Setup** or **Negative Setup**), depending on the film type you have selected.
 - If you would like to export TIFF images automatically using your selected setup, then mark the **Save final TIFFs** check box. You will still get the 3f images, but TIFF versions will also be saved in a sub-folder below the 3f images.
 - To set highlight and shadow points automatically, mark the **Auto levels** check box. This will result in automated fine-tuning of your selected setup based on an analysis of each image. This is especially useful when you are using the **Save final TIFFs** feature.
 - Usually, you should use a **Scan Resolution** of 100%, which ensures that your 3f files will contain the full scan data possible with your scanner for each original format, allowing for maximum flexibility in the future. However, if you are short on disk space and are sure that you do not need full resolution images, you may consider reducing this value or setting a maximum size. Alternatively, if you are sure that you will use your scans for just one specific purpose with known dimensions and resolution, you might use the **Adapt to format** settings.
 - Be sure to mark the **Feeder** check box and to use the **From Position** and **To Position** fields to set the first and last original you wish to scan from the Feeder.
4. Click on **Scan** in the **Scan 3f** window to scan all of your selected originals to 3f files.

To use 3f files, you must use FlexColor to review, process and export the images to standard TIFF or JPEG files, which are compatible with most image-editing and DTP programs. FlexColor provides a virtual light table of all 3f images from a selected folder and enables you to view details, view export history and load each image into the main FlexColor window to make export settings.

As you work with the 3f images in the light table, you can load each image into FlexColor to make settings and then save the settings back in the history for the 3f image. When you have finished making settings for an entire batch, you can then batch-process all images to save them as TIFF or JPEG files with your settings applied.

In a production environment, you might choose to store your 3f images on a shared network drive, allowing any computer that has FlexColor installed to open and export images for use even while the scan workstation is busy scanning. Even at sites where there is only one Flextight scanner in use, the FlexColor license agreement permits your organization to install FlexColor on any number of computers at the site.

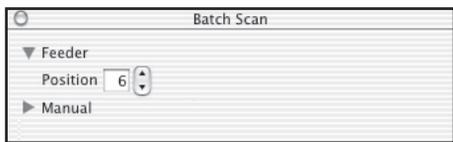
Custom Setups and Single Scans

As mentioned above, we usually recommend that you use the 3f workflow when working with the Batch Feeder. However, you might sometimes want to use the standard FlexColor batch-scan feature, which enables you to make several different scans from each original and/or use a different setup for each scan. The result of this workflow will be a set of TIFF files with your setups permanently applied to each of them, rather than the more flexible 3f files.

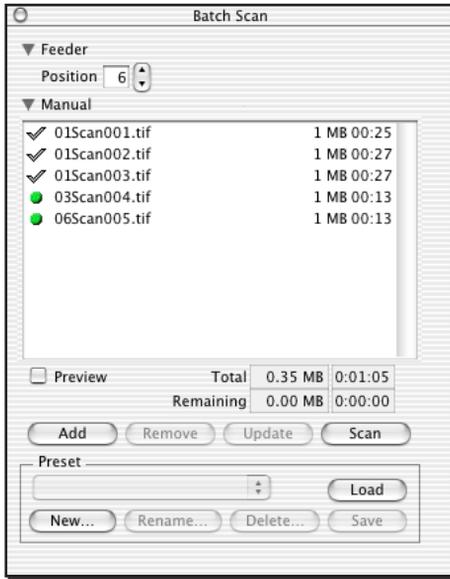
The standard batch-scan workflow is fully described in the FlexColor User's Guide. An example of how to use this feature when you have the Batch Feeder attached is given below, which includes some specific advice for using the Feeder.

1. Run FlexColor and click on the **Batch Scan** button to open the **Batch Scan** window.
-

2. If it is not already shown, expand the **Feeder** heading in the **Batch Scan** window by clicking on the triangle next to the heading.



3. Set the **Position** field to the first batch-loader position you wish to scan (1 - 10). You can enter the number directly using your keyboard, or select it by clicking on the up and down buttons next to the field.
4. Click on **Preview** in the main FlexColor window. The scanner then advances the Feeder to your selected original and makes a preview of the selected original.
5. Select a setup and, if necessary, make image settings, such as rotation, corrections and output size, using the various FlexColor tools as described in the *FlexColor User's Guide*.
6. Either make a final scan now by clicking on **Scan** in the main FlexColor window or add the image to the **Manual** list in the **Batch Scan** window by clicking on the **Add** button there (this enables you to set up several scans based on their previews and then scan them all at once later).



If you are using the **Manual** list, then continue taking previews and adding scans until you have defined all of the scans you wish to make in this batch; then click on **Scan** in the **Batch Scan** window to scan them all.

For complete details about how to work with the **Batch Scan** window, please see the *FlexColor User's Guide*.

Troubleshooting

Below are a few common problems and how to solve them.

Problem: The Feeder is not recognized by the scanner or FlexColor software.

Solution: The electronic connection between the scanner and feeder is probably not secure enough. Gently, but firmly, press the Feeder down against the scanner. When the connection is good and the scanner is turned on, the diodes on the front of the Feeder will light. See also “Mounting the Batch Feeder” on page 8.

Problem: The original holders are not fully drawn in or out of the scanner.

Solution: The Feeder is probably not aligned correctly for your individual scanner. Check and correct the alignment as described in “Aligning the Feeder” on page 23.

Problem: It is difficult to insert an original holder into one specific slot of the Batch Feeder

Solution: There may be an obstruction in the affected slot. Look all the way inside the slot. Here you should see some strips of magnetic tape, which can sometimes come loose. If the tape has come loose, simply press it down using the alignment tool that came with your Feeder.

Aligning the Feeder

The Feeder is pre-adjusted to align perfectly with most individual Flex-tight 848 and 949 Scanners. However, some scanners may have a drum that is aligned slightly outside of the tolerance range of the Feeder. If your original holders are not being drawn correctly into the scanner, then you may need to adjust your Feeder alignment as described below. You should check both the angle at which it hangs on the scanner and the position at which it loads original holders. In most cases, however, this is not necessary. Usually, you will need to do this just once if at all.

Adjusting the Feeder Angle

The Feeder should hang on the scanner with an even spacing from top to bottom. It should not sit, for example, farther from the scanner at the top than it does from the bottom. Use the procedure below to check the angle and correct it if necessary.

1. Use the software-assisted procedure to mount the Feeder to the scanner as described in “Mounting the Feeder” on page 8.
 2. Check that the Feeder is aligned with the front of the scanner. The air gap in the top and the bottom between the Feeder and the scanner should be equal, as indicated in Figure 6.
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Figure 6: Adjusting the Feeder angle

3. If the Feeder looks to be hanging evenly on both the left and right sides, then you are done. Skip the rest of this procedure.
4. If the angle looks like it requires adjustment, then use the software-assisted procedure to unmount the Feeder from the scanner as described in “Unmounting the Feeder” on page 12.
5. Find the adjustment tool that was supplied with your Batch Feeder. It is a thin metal bar with notches cut at each end.
6. Use the adjustment tool to loosen the nuts on the opposite side of the two adjustment bolts shown in Figure 7.

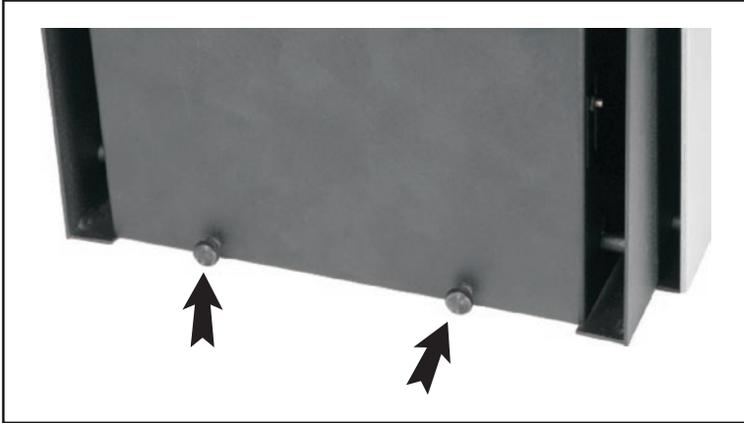


Figure 7: Bolts for adjusting the feeder angle

7. Use your fingers to turn the two adjustment bolts until that they look as though they will hold the bottom of the Feeder at the correct angle.
8. Use the software-assisted procedure to remount the Feeder to the scanner as described in “Mounting the Feeder” on page 8.
9. Check to see if the angle now looks correct. If not, then repeat this procedure until the angle is correct (always use the software-assisted procedure when mounting or unmounting the Feeder).
10. When the angle is set correctly, use the supplied adjustment tool to tighten the two nuts on the back of the adjustment bolts.

Adjusting the Loading Position

The Feeder must be positioned so that it inserts its original holders directly into the clasp mounted on the drum inside the scanner. Use the procedure below only if your original holders are not being drawn in and out of the scanner smoothly during normal operation.

1. If the feeder is currently mounted, then use the software-assisted procedure to unmount the Feeder as described in “Unmounting the Feeder” on page 12.

2. Find the adjustment tool that was supplied with your Batch Feeder. It is a thin metal bar with notches cut at each end.
3. Use the adjustment tool to loosen the self-locking nut on the right side on the rear of the Feeder as indicated in Figure 8.
NOTE! Do not touch similar looking nuts to the left.

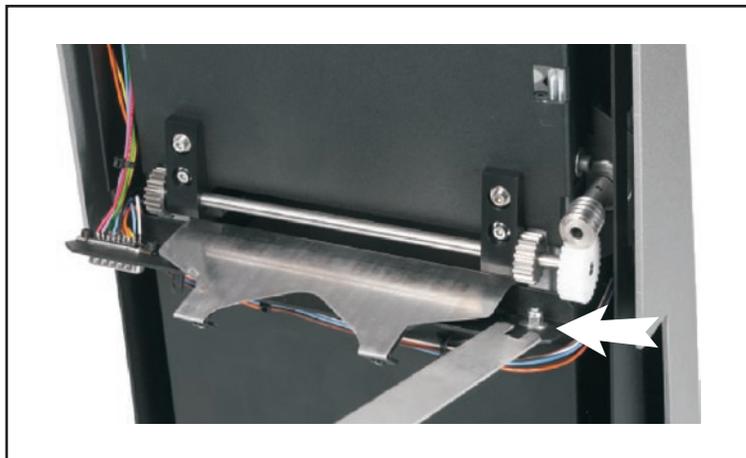
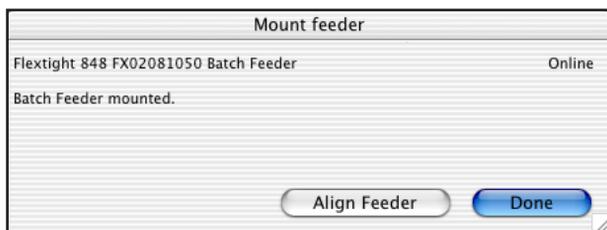
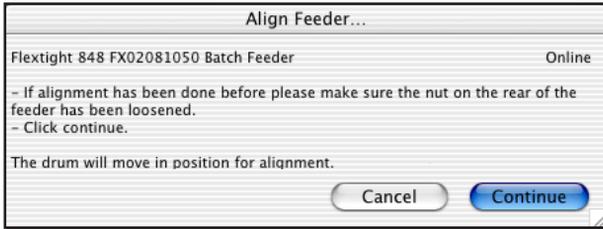


Figure 8: Unlocking/locking the Feeder position

4. Use the software-assisted procedure to mount the Feeder to the scanner as described in “Mounting the Feeder” on page 8. However when you get to the last step, keep the **Mount feeder** window open (do not click on **Done**)

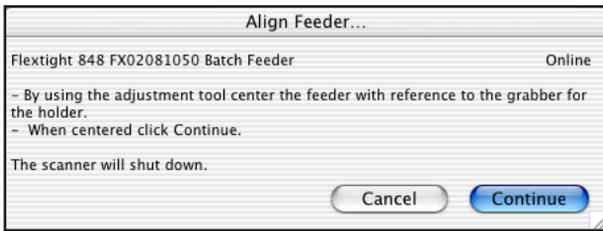


5. Click on the **Align Feeder** button. The **Align Feeder** window opens, which will now guide you through the procedure of aligning the feeder.



You have already loosened the nut, so just click on **Continue**.

6. The scanner moves into its adjustment (home) position and the **Align Feeder** window updates with new instructions.



Place the adjustment tool in the slit between the first and second magazine position on the Feeder as shown in Figure 9. Position the notch at the end of the tool over the adjustment pin inside the Feeder.



Figure 9: Using the adjustment tool

7. Move the adjustment tool left and right to adjust the Feeder position so the Feeder is centered with reference to the grabber for the original holder inside the scanner (see also Figure 10).

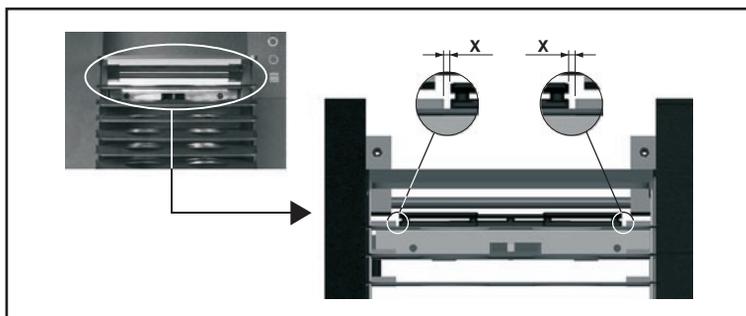
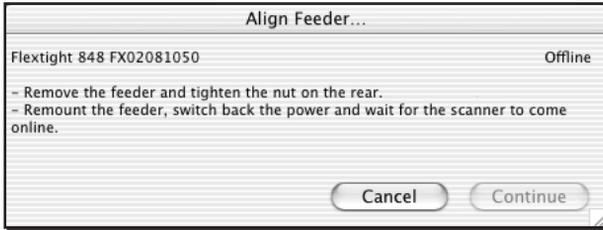


Figure 10: Adjusting the Feeder position

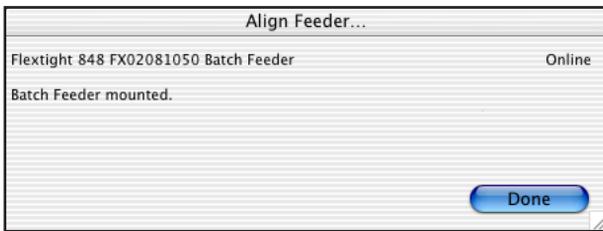
8. When you have finished adjusting the Feeder, go back to your computer and click on **Continue** in the **Align Feeder** window.

- The scanner now shuts down and the **Align Feeder** window updates with new instructions.



Remove the Feeder and use the adjustment tool to re-tighten the self-locking nut on the rear of the Feeder (see also Figure 8, above).

- Re-mount the Feeder on your scanner and then turn on the scanner.
- When the scanner comes online, click on **Continue** in the **Align Feeder** window.
- The **Align Feeder** window updates to tell you that the procedure is complete.



Click on **Done** to close the **Align Feeder** window.

13. You now return to the **Feeder** window.



Click on **Done** to close the **Feeder** window.

14. Load original holders into all 10 original holder slots and then scan all of them using FlexColor. They should all now load smoothly in and out of the scanner. If you still experience loading problems at one or more positions, then repeat this procedure. If problems continue after this, please contact your Hasselblad dealer.

Preparing the Feeder for Storage or Shipping

Storing the Feeder

To store the Feeder while it is not in use:

1. Detach the Feeder using the software-guided procedure given “Un-mounting the Batch Feeder” on page 12.
2. Retrieve the box in which your Feeder was originally delivered. This box is made of sturdy cardboard and includes a foam lining custom cut to hold the Feeder safely and securely.
3. Lay the box down on the floor or on a table.
4. Open the box, remove the top slab of foam and set it aside.
5. Align the Feeder so that it will fit into the cut foam.
6. Lower the Feeder into the box.
7. Replace the top slab and close the box.

The Feeder is now prepared for storage

Shipping the Feeder

If you need to ship the feeder, for example to a new studio or back to Hasselblad for service, then do the following:

1. Detach the Feeder using the software-guided procedure given “Un-mounting the Batch Feeder” on page 12.
 2. Retrieve both the original shipping screws and storage/shipping box in which your Feeder was originally delivered.
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3. Examine the bottom of the back side of the Feeder and locate the two holes used to secure the magazine during shipping (see Figure 11, below). Insert the shipping screws into these holes and tighten them into place so that the magazine is secured.
4. Get the original box and lay down on the floor or on a table.
5. Open the box, remove the top slab of foam and set it aside.
6. Align the Feeder so that it will fit into the cut foam.
7. Lower the Feeder into the box.
8. Replace the top slab and close the box.
9. Use packaging tape to secure the top flaps of the box. We recommend that you also wrap the box in strong shipping paper.

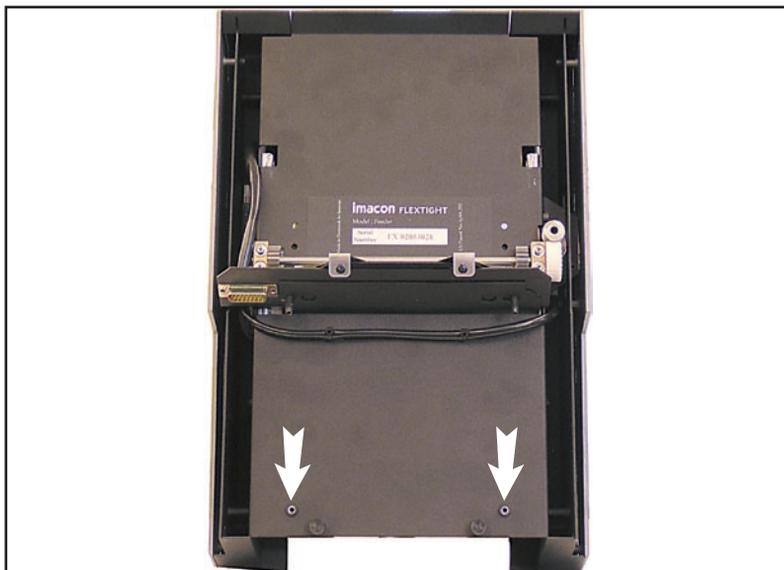


Figure 11: Holes for inserting the shipping screws on the back of the Feeder

If you need to return the Feeder to Hasselblad for repair, it must be shipped in its original box. Hasselblad will not accept shipment if the Feeder is shipped in anything other than its original box.

Preventive Maintenance

All Flextight scanners should be serviced every 25,000 scans or every 12 months, whichever comes first. If a Feeder is mounted, the recommended number of scans is 15,000 provided that the feeder is mounted for all scans. Please note that previews are also counted as scans.

Newer Flextight scanners have a counter installed so that the number of scans can be monitored from FlexColor. Please refer to the FlexColor manual to learn more about monitoring the number of scans.

Failures or faults originating from lack of service and/or daily maintenance are not covered by the factory warranty.

Disposal

If you need to dispose of the Feeder, it must be delivered to an authorized waste plant for electronics equipment.

Technical Information

Specifications

Scanners supported	Flextight 848 and 949
Scanner footprint with feeder	36 x 42 cm
Weight	3.1 kg
Maximum batch	10 Flextight original holders (up to 60 originals, depending on format)
Original types	All transparency formats that are sup- ported by Flexholders
Scan software	FlexColor 4.0.2 or later
Computer OS	Mac OS X 10.2.1 (or later) Windows 2000 (or later) (See FlexColor data sheet or manual for full computer requirements)
Maximum resolution	up to 8000 ppi
Scanning speed	Depends on format. For example: 50, 35 mm originals (in 5 x 35 mm hold- ers) can be scanned to 50, 50 MB 3f files in approximately 60 minutes.

CE Declaration

Declaration of conformity

Application of Council Directives:..... 89/336/EEC amended by 92/31/EEC, 93/68/EEC.
91/157/EEC.
73/23/EEC amended by 93/68/EEC.

Standards to which Conformity is declared:..... EN61000-6-1 2001, EN61000-6-3 2001 and
EN 60950:2000.

Manufacturer: Imacon A/S
Hejrevej 30
DK-2400 Copenhagen NV/
Denmark

Type of Equipment: Desktop CCD scanner accessories

Model name and description: Batch Feeder

The undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards.

Place Copenhagen NV

Date..... September 2nd, 2005

Full name Tom Olesen

Position..... Managing Director


Signature

