

Kodak i5x50 Series Scanners

KODAK i5250 Scanner

KODAK i5850 Scanner

Supplemental User's Guide for FADGI Scanners



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1 Overview

This guide is designed for users of the FADGI-enabled i5250 and i5850 scanner models to provide relevant information and procedures to enable successful archival-quality scanning.

For more information on the i5000 FADGI scanner solution please refer to the product overview page AlarisWorld.com/go/i5000FADGI.

Following operational recommendations helps to ensure the i5x50 FADGI-enabled scanners perform within the expected 3 star compliance guidelines.

Federal Agencies Digitization Guidelines Initiative (FADGI)

FADGI was started in 2007 as a collaborative effort by federal agencies to create sustainable practices and guidelines for storing digitized content whether converted from other media or native to electronic formats. FADGI output quality is dependent on the technical performance of both the imaging system and the operator who scans images utilizing the system.

Additional FADGI information

<http://www.digitizationguidelines.gov/> is the official FADGI website.

Digital Imaging Conformance Evaluation (DICE)

FADGI star ratings compliance determination is calculated by scanning and analyzing a standard image known as a DICE target that consists of a device target imaged and evaluated in isolation along with an object target.

The current process for image verification to meet FADGI guidelines has 2 components: 1) image targets and 2) analysis software for digitizing cultural heritage materials. *KODAK* Alaris products will only use the DICE reflective image target to conform to the 3 star rating for “Documents (Unbound): General Collections” section of the FADGI guidelines.

Per the FADGI guidelines, DICE targets are designed in compliance with ISO specifications and the FADGI parameters are validated from years of use at participating federal agencies. Other target and measurement programs have not been evaluated and cannot be substituted for DICE in a FADGI-compliant environment to certify FADGI conformance.

FADGI scanning steps outlined in this guide

To scan successfully utilizing a FADGI-enabled scanner:

1. Perform daily maintenance as directed for your *KODAK* Alaris i5250 or i5850 FADGI-enabled scanners; as FADGI scanning requires more precision, cleaning and consumable replacement should be done more often to facilitate better scan quality and accuracy.
2. Confirm that FADGI mode is turned on from the Operator Control Panel (OCP) of your FADGI-enabled scanner; the icon below

displays when FADGI is active.



FADGI mode is turned on by default prior to shipping.

3. Open the *KODAK* Archival Quality Image Scanning Tool (AQIST) application.
4. Conduct DICE target configuration at intervals appropriate for your FADGI scanning.

KODAK Alaris field engineers will install FADGI-enabled scanners at your site and sales innovation specialists set up AQIST on your computer, so this guide is focused how to perform the procedures associated with the four steps outlined above.

FADGI mode scanning profiles

Four scanning profiles are provided for your FADGI-enabled scanner that cannot be changed or edited due to FADGI image quality requirements. These scanning profiles are configured to create FADGI-compliant color images in the ProPhoto color space.

The first two profiles listed below meet FADGI compliance for scanning unbound documents and the last two profiles are used when scanning DICE targets to verify compliance:

1. FADGI 3 Star 300dpi
2. FADGI 3 Star 300dpi - Target

FADGI mode scanning requirements

3 star FADGI-compliant images are required to be in color using the provided scanning profiles.

IMPORTANT: FADGI mode must always be used in combination with one of the provided FADGI scanning profiles to create FADGI-compliant images.

NOTE: If new scanning profiles are created in FADGI mode that either do not support color or change other image processing settings from the FADGI guidelines included in the provided profiles, the images created using those settings may not be FADGI compliant.

Images created with profiles other than those created during installation or by the available AQIST settings will not provide compliant 3 star FADGI images, Consult your local *KODAK* Alaris Innovation Specialist before making profile changes.

FADGI-compliant images created with either the i5250 or i5850 scanner meet the 3 star specification described in the technical guidelines for digitization of the “Documents (Unbound): General Collections” category.

Other supporting documentation

Procedures not specific to FADGI-enabled functions are found in the standard i5x50 scanner guides that are also available, though the following may be particularly useful for FADGI-enabled scanners:

- **i5x50 Series User Guide** — provides a comprehensive overview of the function, operation, and maintenance of your scanner. Keep this guide close to the scanner so you can use it as a quick reference.

The i5x50 User Guide is found on the installation CD or may be downloaded from your scanner's product support website at either AlarisWorld.com/go/i5250support for the i5250 scanner or AlarisWorld.com/go/i5850support for the i5850 scanner.

2 Maintenance

Recommendations for FADGI-enabled scanners

The following are FADGI-enabled scanner recommendations in addition to the standard procedures found in the User Guide. Required cleaning and maintenance procedures for the FADGI-enabled *KODAK i5x50* Scanners may need to be performed more often than the recommended cleaning frequency in the User Guide based on the paper type being scanned.

Replacing the imaging guides after cleaning

After removing and cleaning the imaging guides, be certain to replace them correctly by returning the front guide to the front position and the rear guide to the rear position.

If the imaging guides are reversed from their original positions the images created may not be FADGI-compliant and a service call may be required to return your scanner back to FADGI compliance.

Noting which guide corresponds to the front position and which to the back position when you clean and replace them enables continual scanner use with less service downtime.

Imaging guide replacement

If your scanner's imaging guides are damaged enough from use to require replacement, contact service directly.

Customers are responsible for purchasing imaging guides from their local reseller or distributor prior to service installation.

Supplies and consumables

For a full list of scanner cleaning supplies, consumables, accessories, and maintenance guidelines refer to the support page for your scanner at the link below and click on “Supplies”:


[AlarisWorld.com/go/IMsupport](https://www.alarisworld.com/go/IMsupport)

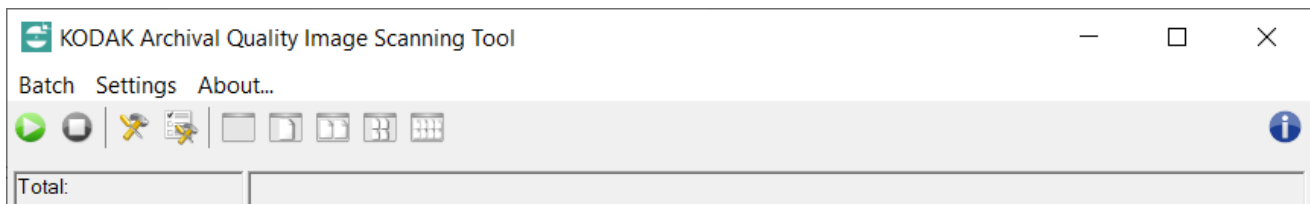
For additional maintenance or support information, refer to the i5000 FADGI support page [AlarisWorld.com/go/i5000FADGIsupport](https://www.alarisworld.com/go/i5000FADGIsupport).

3 AQIST - Archival Quality Image Scanning Tool

AQIST is installed on your computer by the Sales Innovation Specialist as part of the standard service agreement for your FADGI-enabled scanner. You only need to ensure the FADGI scan settings and scanner preferences are selected as described below and confirm FADGI mode is active from the Operator Control Panel of your scanner as described in “4 FADGI Scanning Mode” on page 15.

Getting started

1. Confirm that your scanner is set to FADGI mode. See “4 FADGI Scanning Mode” on page 15 for additional details.
2. Start the AQIST application from your computer to open the main window shown below.
3. Click the **Batch** icon  from below the menu bar to open the Batch Settings window shown on the next page.



4. Select settings for your scanning session as follows:

Batch Settings

Source

KODAK Scanner: i5000

Scan Settings

FADGI 3 Star 300dpi

Setup...

☒ Show scanning window

Destination

Folder

rs\\507132\\AppData\\Roaming\\kds_kodak\\aqist_images

Browse...

File Name

Prefix: img

Starting value: 1

☒ Show these settings before starting a batch

OK Cancel

- **Source**— Choose the installed driver for your FADGI-enabled scanner.
- **Scan Settings**— Choose a profile based on your scanning session requirements as follows:
 - For batch scanning, select the FADGI 3 Star 300dpi (shown above) profile.
 - For validating FADGI 3 star compliance, select the FADGI 3 Star 300dpi - Target profile.
- **Setup**—Clicking this button shows the scanner driver user interface if available.


Batch Settings display controls

Batch settings are shown during your scanning session dependent on if you activate one or both the following controls:

- **Show scanning window**— If checked, the scanner driver progress window is shown during your scanning session.
- **Show these settings before starting a batch**— If checked, the Batch Settings window opens after **Start** is clicked to start your scanning session.

Image save locations and image file names

1. From the **Destination** section, choose where images are saved during your scanning session by clicking **Browse** to navigate to and display the location in the **Folder** window.
2. From the **File Name** section, specify image file names for this scanning session as follows:
 - **Prefix**— You can include up to 64 allowable file name characters.
 - **Starting value**— Lists a counter value for the first image in your scanning session, which is always '1' when AQIST is started and advances to the next highest number following the last numbered image at the start of the next session up to a maximum of 9 digits.
3. Click **OK** to save all batch settings and close the window or click

Start  from the main window to perform the same actions and start the scanning session.

- Clicking **Cancel** closes the window without saving any batch setting changes.
4. Click **Start** from the main window to begin your scanning session. Refer to the i5000 FADGI support page [AlarisWorld.com/go/i5000FADGIsupport](https://www.alarisworld.com/go/i5000FADGIsupport) Troubleshooting section if errors occur.

Reference

This section details all of the AQIST windows and their associated menu items, functions, and controls.

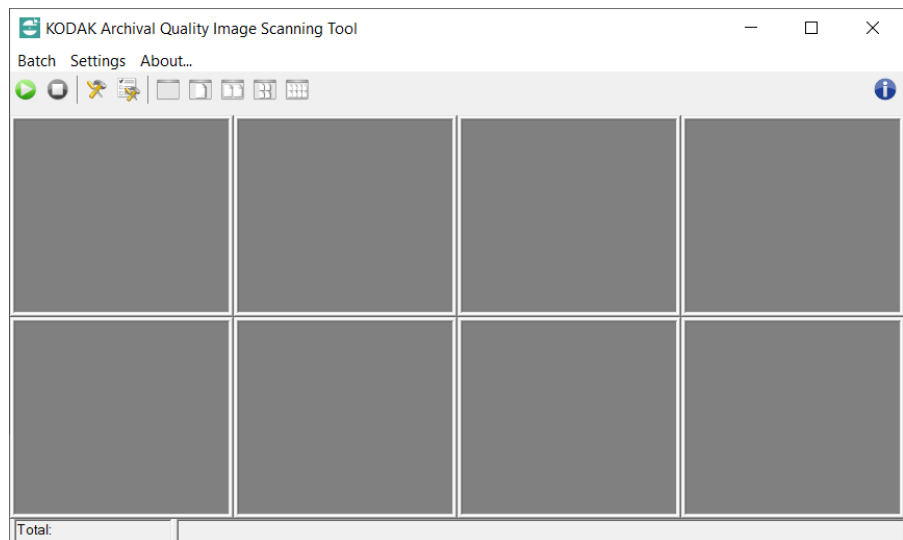
Main Window

The main AQIST window is resizable and contains a menu bar, task buttons, the scan display area which can either be blank or subdivided dependent on the Display option selected, and a status bar.

NOTE: The screenshot below shows the main AQIST window in Eight Image display mode.

Menu options

- **Batch** — Opens the Batch submenu
- **Settings**— Opens the Settings submenu
- **About**—Displays AQIST information



Clicking 'X' (the Close button) closes the window and shuts down the AQIST application.

Batch submenu options

All buttons but **Stop** are active if a scanning session is not running.



Start toolbar button - begins batch scanning



Stop toolbar button - halts batch scanning



Batch Settings toolbar button - opens Batch Settings window



Scanners toolbar button - opens Scanners window

Display options

Buttons are active if a scanning session is not running.



No Image Display Mode selection



One Image Display Mode selection



Two Images Display Mode selection



Four Images Display Mode selection



Eight Images Display Mode selection

NOTE: A radio button displays next to the currently selected display mode accessed by selecting **Settings->Display**.

About

Button available in the upper right of the main window.



About button - opens About window

Status bar

Located at bottom of main window.

- **Total** (*lower left*)— Displays the number of images in the current scanning session
- **Last File** (*lower right*)— Displays the full path and file name for the last scanned image

Batch Settings Window

Batch Settings

Source

KODAK Scanner: i5000

Scan Settings

FADGI 3 Star 300dpi

Setup...

☒ Show scanning window

Destination

Folder

rs\\507132\\AppData\\Roaming\\kds_kodak\\aqist_images

Browse...

File Name

Prefix: img

Starting value: 1

☒ Show these settings before starting a batch

OK Cancel

Batch Settings are saved for reuse whenever AQIST is run.

If all settings are valid, this window is closed during scanning sessions.

If a required field is blank, the **OK** and **Start** buttons are inactive until a setting is selected.

If settings are changed and at least one is invalid, an error dialog pops up and the Batch Settings window opens so the error can be corrected and the scanning session restarted.

Multiple errors are listed in one dialog.

Options

- **Source**— Displays the installed and supported scanner drivers in a drop down list and status messages such as “*no scanner found*”, indicating that a scanner may be powered down or off-line.

Pressing the available **Retry** button prompts AQIST to check for the scanner again if a scanner is not initially available.
- **Scan Settings**— Displays a drop down list of available driver Setting Shortcuts; a FADGI 3 Star driver must be chosen to enable FADGI scanning.
- **Setup**— When pressed, the user interface for the selected driver displays.
- **Show scanning window**— When checked, the scanner driver progress window displays during scanning.
- **Show these settings before starting a batch**— When checked, displays the Batch Settings window when **Start** is clicked in the Main window.

Destination— This section contains the settings for generated images.

- **Folder**— Displays the location where images are saved.
- **Browse**— When clicked, opens the operating system folder dialog titled *Select Destination Folder*.

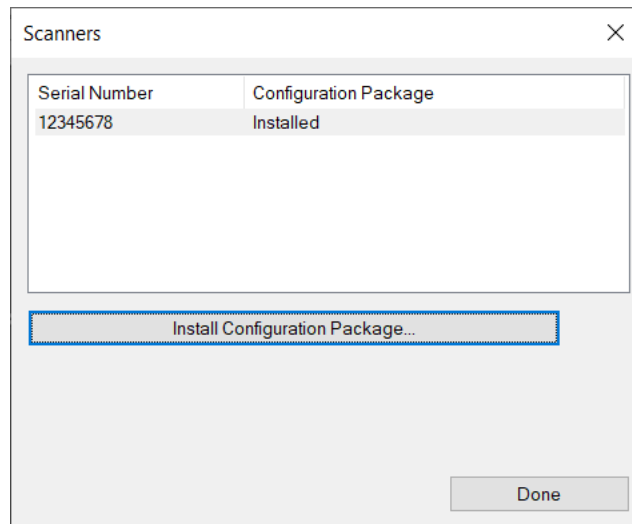
File Name— This section contains the settings for image names, which always include date and time in the format *yyyymmddThhmmss*, an underscore “_”, and a counter padded with ‘0’ to 9 digits.

- **Prefix**— An optional field that lists the text that is inserted before the date and time in file names, which may only include up to 64 allowable file name characters.
- **Starting value**—Lists the counter value for the first image in a scanning session, which is initially set to '1' when AQIST is started and advances to the next highest number after a scanning session ends. Only digits up to a maximum of 9 total digits are allowable.

OK/Start—Pressing either button saves all batch settings and closes the window.

Cancel—Closes the window without saving any batch settings.

Scanners Window



This dialog displays the serial number of any scanners that have a configuration package installed on the computer running AQIST. The entry for the current scanner is highlighted if more than one scanner is available.

Additionally, 'Installed' displays when configuration is set for the listed scanner or '--' if a configuration package is not available.

Note that a scanner listing is only displayed if a scanning session is started and a scanner is found for the selected driver.

- **Install Configuration Package**—When clicked, opens the *Select Configuration Package* window and refreshes the Scanners window serial number list after that window closes.
- **Done**—Click to close the Scanners window.

4 FADGI Scanning Mode

Preparing your scanner

1. Be sure the scanner is on and in **Ready** mode (Power button LED is green and constant).
2. Adjust the input elevator to meet your scanning needs.
3. Adjust the output tray to meet your scanning needs.
4. Open the AQIST scanning application on your computer and ensure that the FADGI 3 Star driver is selected in the *Scan Settings* area of the Batch Settings window.

Using the Operator Control Panel touchscreen

There are a variety of options that can be accessed by using the Operator Control Panel (OCP) touchscreen.



If there is an arrow after the option, another screen will be displayed allowing you to make additional choices.



If there is a checkbox next to the option, you can check or uncheck this box to turn an option **On** or **Off**.



For example, if a checkmark is in the Rear Exit checkbox, this indicates that the Rear Exit is **Open** on the scanner.



Use the Up and Down arrows to scroll through the list of options displayed on the Operator Control Panel.

For more information and procedures for using FADGI-related options, see the following sections. Additional functional details are in the User Guide.

To navigate through the touchscreen, touch the desired option with your finger. Using any object other than your finger may damage the touchscreen and void your warranty.

Ready screen OCP status icons

The Ready screen provides a list of options that can be selected. In addition, the counter value is displayed in the status area at the top of the screen.

Following are the icons that may be displayed in the status area.



The counter value will start at 0 and be incremented with each page scanned. The maximum value that will be displayed is 999,999,999.

If the User Counter option is **On**, then the counter value is followed by the Document counter icon or the User counter icon to indicate which counter value is being displayed.



Indicates that the Document counter is being displayed.



Indicates that the User counter is being displayed.



For the i5850 Scanners only: indicates that batching is enabled.



Indicates an Application Override is enabled.



Indicates that documents are in the input elevator and the scanner will scan from the input elevator.



Indicates that no documents are in the input elevator.



Indicates that the rear exit is open and there are no documents in the input elevator.



Indicates that the rear exit is open and documents are in the input elevator.



Indicates a consumable needs to be replaced or attended to; refer to the support page for your scanner at the following link and click "Supplies": [AlarisWorld.com/go/IMsupport](https://www.alarisworld.com/go/IMsupport)



Indicates an informational message. For example, **No paper in input elevator**. These messages are easily corrected by the operator.



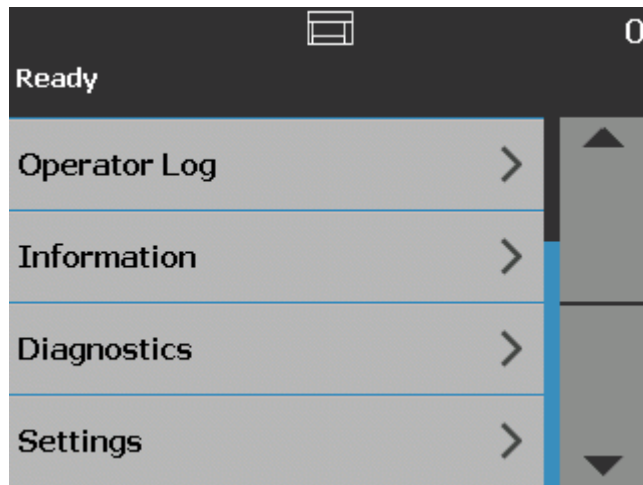
Indicates a recoverable error condition. For example, **Input elevator full** or **feed module missing or broken**.



Indicates an error state. For example, paper may be in the transport.

NOTE: Applying some application overrides may result in images that are not FADGI-compliant.

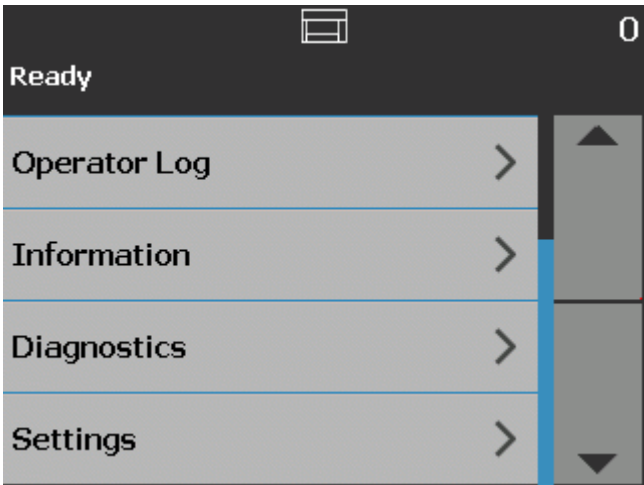
When the Ready screen is displayed, you can do the following:



- **Clear Path** — clears the scanner transport of any documents.
- **Lower Elevator** — lowers the input elevator to the lowest position.
- **Rear Exit** — allows you to open or close the rear exit.
- **Operator Log** — provides error code information, such as the time the error occurred, the error code and a brief description of the error.
- **Information** — provides scanner information, such as scanner model, firmware version, etc.
- **Diagnostics** — allows you to view Scan History, check the Maintenance Meters, run a Print Test, run a scanner Self Test, put the scanner in Count Only mode, run a Patch Test and a Patch Reader Test, perform a UDDS (ultrasonic) calibration, perform a Touchscreen calibration, and access Alterations. *Alterations is for Kodak Alaris Technical Support use only.*
- **Settings** — allows you to switch between FADGI and non-FADGI scanning modes.

Settings screen

The Settings screen is accessed by touching **Settings** on the Ready screen.



- Touch the **Settings** option to display a list of options.

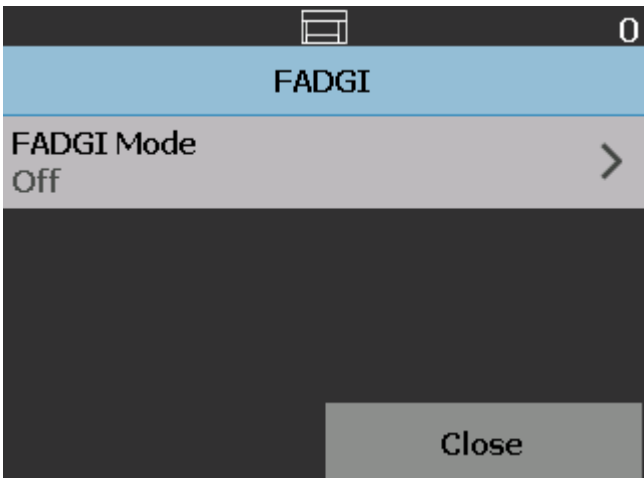
NOTE: The value displayed under the option is the current setting.

Viewing the FADGI menu

1. Use the right scrollbar to browse through the options until you reach the FADGI menu. The screenshot below shows the FADGI menu location.

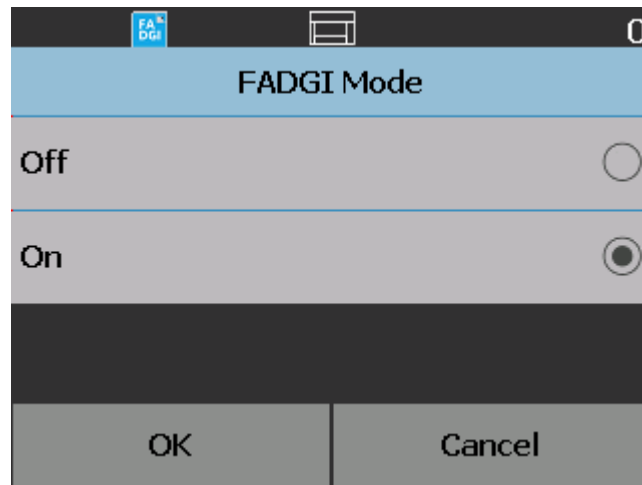



2. To open the FADGI menu, touch **FADGI** with your finger. FADGI mode is off in the screenshot below.

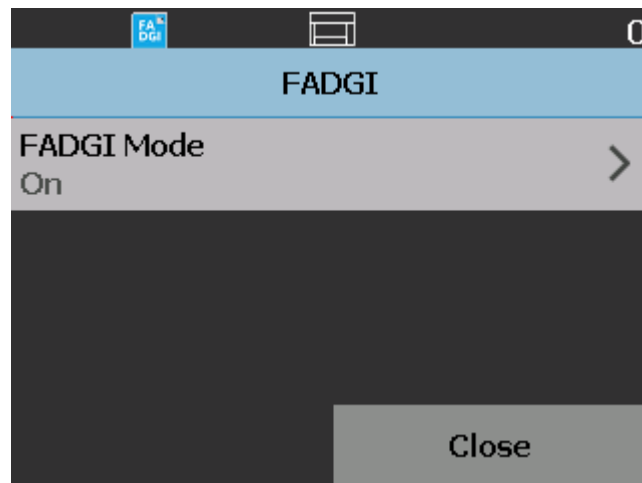


Changing FADGI mode

1. To access the FADGI mode controls, touch the arrow next to the **FADGI Mode** menu listing.
2. The FADGI mode radio control opens.




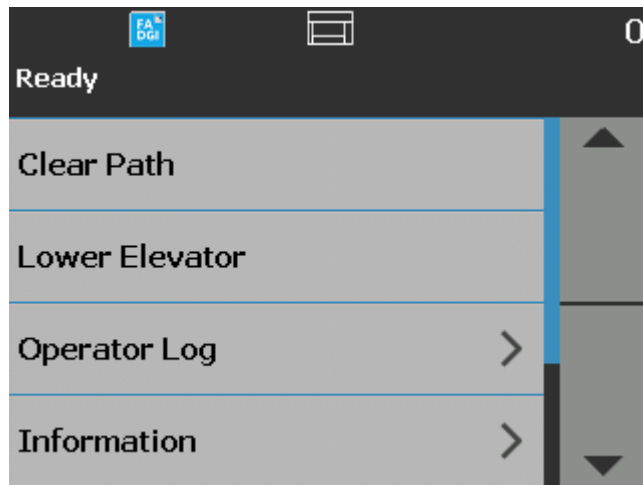
3. Change FADGI mode by performing one of the following steps:
 - Click the **On** radio button to turn on FADGI mode; a blue FADGI indicator  appears at the top of the OCP screen after **On** is clicked.
 - Click the **Off** radio button to turn off FADGI mode; the blue FADGI indicator disappears from the top of the OCP screen after **Off** is clicked.
4. Click **OK** to save your change to FADGI mode and return to the main FADGI menu. FADGI mode is on in the screenshot below.



5. Click **Close** to return to the **Settings** screen.

6. Click **Close** on the **Settings** screen to return to the Ready screen.

In this screenshot showing FADGI mode active, the indicator  displays on the OCP screen until FADGI scanning mode is turned off by repeating this procedure.



5 DICE Target Scanning System Configuration

General preparation

1. Be sure the scanner is on and in **Ready** mode (Power button LED is green and constant).
2. Open the rear exit using the OCP to allow for straightforward scanning of the DICE targets.
3. Open the gap release to accommodate heavier paper weights and prevent roller pressure from creasing the DICE targets.
4. Run a transport cleaning sheet using the OCP Count Only function before feeding DICE targets to prevent contaminant transfer to the targets.

NOTE: Check the i5x50 User Guide to confirm the different locations of the gap release button on the i5250 and i5850 models and how to use Count Only from the OCP.

5. Select the DICE target configuration profile from the *Scan Settings* section of the Batch Settings window in the AQIST scanning application installed on your computer.
6. Verify on the OCP that your scanner is set to FADGI mode.

DICE target scanning preconditions

Confirming these conditions are fulfilled prior to starting DICE target scanning produces the best target configuration results:

1. **Cleanliness** — Wipe down your FADGI-enabled scanner in addition to regular daily cleaning to verify that all paper dust and other particulates are removed. Also clean the feed module and separation tires as well as all drive and NFR transport rollers prior to target scanning.
2. **Mechanical** —Open the gap release and use the rear exit in order to reduce wear to the DICE targets caused by feeding them through your scanner.
3. **Readiness**—Ensure that your scanner is ready by allowing the scanner to warm up for at least 10 minutes prior to beginning DICE target scanning.

DICE target maintenance

- **Keep targets in their sleeves when not in use**— to prevent warping, bending, or physical distortion.
- **Keep targets away from direct light**— to prevent fading, place the targets in their sleeves within cases or folders in a secured area such as a file cabinet.

- **Keep targets in a controlled environment**— to prevent temperature and humidity extremes from either degrading the targets or affecting how the targets reproduce when scanned.
- **Verify target condition prior to every scan**— to prevent configuration failure examine the target for dirt, marks, and scratches and replace if necessary.

DICE target example



