

How-to: Use the IQ-501 Intelligent Quality Optimizer with the Fiery server Konica Minolta® IC-315, IC-313 and IC-417 for the AccurioPress® C6100/6085 and C2070/C2070P/2060





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Objectives of this guide

The IQ-501 is an optional module installed after the print engine which allows for in-line real-time scanning of both color patches and registration marks to ensure both color consistency and perfect registration during a production run. In addition the IQ-501 is equipped with an in-line spectrophotometer which can be used in conjunction with the in-line scanners for Fiery server calibration, color profiling and other color management tools. This guide will show you how to engage and effectively use the IQ-501 from the IC-315, IC-313, and IC-417 Fiery servers and the Fiery application on the AccurioPress C6100/6085, 2070/2070P/2060.

IQ-501 Fiery Supported Features

- Auto Image Adjustment: This is an engine feature that constantly monitors both position and color quality of a job. It prints both registration marks and color bars on the inboard and outboard edges of the media to be scanned and analyzed by the IQ-501. The engine takes corrective action to ensure that both the position and color quality is maintained throughout the job. Auto Image Adjustment is triggered from the Job Properties of the job on the Fiery server.
- Fiery Calibration from the Press Control Panel: When performing Fiery server calibration from the press control panel the IQ-501 can be engaged to simplify the calibration process. The calibration target is automatically read by the IQ-501 and the calibration is updated on the Fiery server.
- Fiery Calibration from Fiery Color Profiler Suite (FCPS): A Fiery Color Profiler Suite software DVD is included with each Fiery server in the top tray of the server shipping box. The Calibrator module does not require a FCPS license, just the FCPS software. The IQ-501 can be selected from the Calibrator module simplifying the calibration process.
- **Printer Profiling using the Printer module of FCPS**¹: When creating an output profile from the Printer module of FCPS you can choose the IQ-501 to read both the calibration targets and printer profiler targets, simplifying and automating profile creation.
- **G7 Calibration using the Printer module of FCPS**¹: The G7 gray balance calibration target selection when creating a new calibration setting will print and scan the target if the IQ-501 is selected, making G7 optimization a simple and touchless process.
- Printer Match (common calibration) using the Printer Match module of FCPS¹: The FCPS Printer Match module allows you to use a common calibration method to build profiles that match multiple printers of the same model. Both the calibration targets and printer profiler pages are automatically read when choosing the IQ-501. This greatly facilitates and simplifies the process. You should have the IQ-501 option on all presses being matched to take full advantage of this feature.
- Fiery Color Verifier with three reference preset choices¹: If you set the FCPS verifier instrument
 preference to the IQ-501: Fiery Color Verifier will allow you to choose from three reference presets that are
 supported by the IQ-501: Fogra 2.2 media wedge, Fogra 3.0 media wedge and ISO12647-7 Control Wedge
 2013.

Note: Fiery Color Profiler Suite can be installed on any PC or Mac client that has network access to the Fiery server, however it is recommended to install on the Fiery server itself if there is a FACI (direct connected monitor, keyboard and mouse). A license is not required for using the calibration module. Please contact your sales person or dealer/reseller should you require a FCPS license.

¹ Purchase of the Fiery Color Profiler Suite software license option is required to activate this module.



Fiery measurement features that do not use the IQ-501

Although the IQ-501 is not supported with the following features, if a supported spectrophotometer is purchased, in addition to the IQ-501, the features below that require measurement are fully supported. If the full capability of the Fiery server is desired, the EFI ES-2000 is recommended in order to capture spot colors using the Spot-On feature of Command WorkStation.

IQ-501 Unsupported FCPS and Command WorkStation features:

- Express Profile FCPS module.
- Auto Verify FCPS module.
- Verify FCPS module (when selecting custom or unsupported reference strips directly from the Verifier application).
- Device Link FCPS module (no measurements are needed).
- Printer Match FCPS module when selecting the New Device Link method (no measurements are needed).
- Color Verifier Assistant (from Command WorkStation Job Center).
- Calibrate module from Command WorkStation.

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Disclaimer: Every effort has been made to depict features and steps herein correctly. However, certain features, steps, and processes may be subject to change without notice. The intent of this document is for feature demonstration purposes only and should not be used for any other purpose. This document is not a technical specification.





Auto Image Adjustment



RGB/Process K strips

CMYK strips

4 1

The engine keeps track of which set of strips were last printed and ensures that they alternate. Position markers shown in red circles.

- 1. Open **Job Properties** of the job in which you wish to engage Auto Image Adjustment.
- 2. Select the Image tab.
- 3. Pull down the **Color Gradation** section or **Realtime Adjustment** section.
- 4. Select either **Position** or **Position+Gradation.**
- OPTIONAL: check the Color gradation patch position check box and choose a +/- Shift value to fine tune the placement of the color bars on the edge of the sheet.
- 6. Click OK.
- 7. Print the job.
- 8. Follow directions as needed on the Press Control Panel.

For the **Position+<u>Gradation</u>** selection the engine places alternating CMYK and RGB/Process K strips on the sheets' inboard and outboard edges. Approximately 9mm per edge is used. Position places cross hair marks within the 9mm edge at each corner. Please ensure that user content is not placed in these border areas as the engine will override and knock out content.

Note: ImageViewer or Preview will not show these marks as they are added at the engine.



Fiery Calibration from the Press Control Panel



If the main screen is not showing on the press control panel, press the Utility Counter on the keypad then press Exit.

1. Select **Controller** from the Press Control Panel.



≡ I Info

	SERVER-1A093BAE	Installed Options:
	10.15.15.109	Fiery Graphic Arts Package, Premium Edition
		Fiery Advanced Controller Interface Kit
	3725.10 GB (3711.2 GB Free)	
User:	Guest	

2. Press the blue icon button in the bottom left corner of the screen.

Note that this button may be labeled other than "Info" depending on the last use.



3. Press Tools.



nery 💿 🖬 🖨 Idle	4. Press Calibrate.	
Calibrate Align Tray		
Setup Restart Server		
El Info		
Logn	 You <u>may</u> be prompted to log onto the Fiery server. 	
Administrator Operator	The default Administrator Password is "Fiery."	1 ".
Administrator Password:		



6. Select the tray with the desired media from the pull-down menu.

Press **Update for Selected Tray** if the desired media is not showing.

7. Press Print.

6)





The calibration page prints and is scanned by the *IQ-501*.



When completed the **Calibration successful** message is displayed.

8. Press Continue.

7 1



Press Apply to complete the calibration process.
 OPTIONAL: Press Test Print if desired.



Fiery Calibration from Fiery Color Profiler Suite (FCPS)





1. Start Fiery Color Profiler Suite.

If you have not purchased and installed a license for FCPS you will need to run FCPS in Demo mode for Fiery Calibration as follows.

2. Select Run in Demo mode.

This step will not be necessary if the license is installed and activated correctly.

3. Click on the Calibrator icon.

Note that Calibrator and Inspect are the only two modules that allow full capabilities without a license. Inspect is not discussed in this document.

Click the "+" symbol to discover the Fiery server if it is not listed.

8

5. Select Recalibrate and click Next.

In this exercise we are recalibrating an existing calibration set.

4. Select the **Fiery** server that you wish to calibrate.

fiery server: SERVER-9B2A9A88	✓ + −		
Recalibrate		1	
Update an existing o	calibration to match its color benchmark.		
Create calibration Create a new calibra	ation and profile to establish color behavio	or for a new printing cor	ndition.



💞 Calibrator		- 🗆 X	6. Select the Calibration name that you wish to recalibrate.
Update calibration for SERVER-9B2A9A88 Calibration name: Uncoated Comments:	~		7. Click Next.
FieryMeasure Patch Layout Instrument: IQ-501 Patch set: 21 random Chart size: 8.5x115	Next	Cancel	 8. Select IQ-501 from the Instrument pull-down. 9. Select an appropriate size from the Chart siz pull-down. Ensure that it matches the media selection (next step). 9A. Optionally select warmup pages. 10. Click Print.
2	Cancel	Print	

9)





10 1

- 13. Select the media attributes that are defined by the calibration name, ensuring that the media size matches the chart size (previous step).
- 14. Click **OK** to print and measure the chart.

FieryMeasure		
Page is waiting to be printed		
		Cancel

15. The Calibration measurement results are

Ensure that the D Max values displayed are within the expected tolerance for the engine and media selected. Reprint or take appropriate

 \times

OK

16. Click **Apply & Close** to complete the calibration.



Printer Profiling using the Printer module of FCPS including G7 calibration



You must have purchased and installed a license for FCPS to use this feature.

- 1. Start Fiery Color Profiler Suite (FCPS).
- 3. Click on the **Printer** icon.
- 4. Click on Print Patches.

- 5. Enter an appropriate name for your profile.
- 6. Select the Fiery server.

The Fiery model appears and CMYK is preselected.

7. Click Next.





- 8. Select Create new calibration setting.
- 9. <u>Optionally</u> you may check **G7 gray balance** calibration target.

If you choose the G7 gray balance calibration target the system will prompt you through <u>additional steps</u> to print and have the IQ-501 scan G7 P2P targets. This is an iterative process that allows you to build a neutral print density curve on top of basic calibration.

These additional steps are not documented here, however the FCPS software will prompt you after the basic calibration to process the G7 P2P targets. The G7 P2P targets can be iterated until you are satisfied with the results. Once accepted the profiling process continues as documented.

Refer to the contextual help icon for assistance with the G7 workflow, or visit:

http://fiery.efi.com/help/G7CalibrationWorkflow



Instrument:	
IQ-501	~
Patch set:	
21 random	~
Chart size:	
8 5x11S	Y Custom
0.5×115	Custom
• Number of warmun pages:	••
Click "Print" to print patch	n pages on server : 10.100.228.57.
Click "Print" to print patch	n pages on server : 10.100.228.57. Cancel Print
Click "Print" to print patch	n pages on server : 10.100.228.57. Cancel Print
Click "Print" to print patch	a pages on server : 10.100.228.57. Cancel Print
Click "Print" to print patch	Cancel Print
Click "Print" to print patch	Cancel Print Cancel Print Print Print Print
Click "Print" to print patch	n pages on server : 10.100.228.57. Cancel Print Image Finishing VDP Summary Reset
Click "Print" to print patch	Cancel Print Paper type: Paper type: P
Click "Print" to print patch	n pages on server : 10.100.228.57. Cancel Print Cancel Print Printshing VDP Summary Reset Color specific 0
Click "Print" to print patch	a pages on server : 10.100.228.57. Cancel Print Cancel Print Finishing VDP Summary Reset Paper type: Color specific 0 User color name:
Click "Print" to print patch	a pages on server : 10.100.228.57.
Click "Print" to print patch	a pages on server : 10.100.228.57.
Click "Print" to print patch	Cancel Print Cancel Print Cancel Print Cancel Print Paper type: Color specific User color name: Paper tray: Auto tray select C
Click "Print" to print patch	Cancel Print Cancel Print Cancel Print Cancel Print Paper type: Color specific 0 User color name: Paper tray: Auto tray select 0 Paper tray: Paper tra
Click "Print" to print patch	Cancel Print Cancel Print Cancel Print Cancel Print Page Finitshing VDP Summary Reset User color specific 0 User color name: Paper tray: Auto tray select Paper weight: B1-91 g/m2 0
Click "Print" to print patch	Cancel Print Cancel Print Cancel Print Cancel Print Page Finishing VDP Summary Reset User color specific 0 User color name: Paper tray: Quio tray select Paper weight: B1-91 g/m2 0
Click "Print" to print patch	a pages on server : 10.100.228.57.
Click "Print" to print patch	a pages on server : 10.100.228.57.
Click "Print" to print patch	a pages on server : 10.100.228.57.
Click "Print" to print patch	a pages on server : 10.100.228.57.
Click "Print" to print patch	a pages on server : 10.100.228.57. Cancel Print Pager Type: Color specific Paper type: Color specific Paper tray: Auto tray select Paper weight: 81-91 g/m2 (separate page by comma)
Click "Print" to print patch	ap pages on server : 10.100.228.57. Cancel Print Pager Type: Color specific : Paper Type: Color specific :: Paper Type: Paper Typ
Click "Print" to print patch	Cancel Print Paper tage Paper tage: Paper
Click "Print" to print patch	a pages on server : 10.100.228.57. Cancel Print Image Image

- 10. Select **IQ-501** from the Instrument pull-down.
- 11. Select an appropriate size from the **Chart size** pull-down. Ensure that it matches the media selection (next step).
- 11A.Optionally select warmup pages.
- 12. Click Print.

- 13. The **Fiery Measure** job properties window opens.
- 14. Select the Media tab.

13 🕽

- 15. Select the media attributes for the media you wish to profile, ensuring that the media size matches the chart size (previous step).
- 16. Click **OK** to print and measure the calibration chart.

ieryMeasure			×
Page is waiting to	be printed		
			Cancel
••••	•••••		•••••
Note: If y	you chose t	he G7 gray b	balance
Note: If y calibration steps an	you chose t on target op d targets a	he G7 gray t tion in step § e generated	oalance 9, additional here.
Note: If y calibration steps an Once co	you chose t on target op d targets a mplete the	he G7 gray b tion in step 9 re generated process cont	balance 9, additional here. tinues as



ryMeasure	×
Patch Layout	
Instrument:	
IQ-501 🗸	
Patch set:	
234 🗸	
Chart size:	
8.5x11S V Custom	
Click "Print" to print patch pages on server : 10.100.228.57.	
Cancel	_

 Fiery Printer Frodier
 X

 Chart: 234 Device: ILS Page 1 of 1
 Image: Chart: 234 Device: ILS Page 1 of 1

 Image: Ima

We continue with printing and measuring the profile patch pages.

- 17. Select **IQ-501** from the Instrument pull-down.
- 18. Select an appropriate number of patches from the **Patch set** pull-down.

Since this will be read automatically select an appropriate number of patches for the desired precision. More patches generally provide better precision. Note that more sheets will be also be used.

- 19. Select an appropriate size from the **Chart size** pull-down.
- 20. Click **Print** to print and measure the profiler patch pages.

FieryMeasure		×
Page is waiting to be printed		
		Cancel

The results of the Fiery measure module are automatically displayed.

21. Click Next to continue.





The measurements summary is displayed.

- 22. Review the **Maximum and Average measured** variation for anomalies. Take appropriate action as needed, based on your precision requirements. Engine service may be necessary if you determine that the DeltaE (dE) values are too high.
- 23. Optionally click on the **Inspect Measurements** button to review the gamut map.
- 24. Click Next to continue.



Fiery Printer Profiler X	
Apply settings	
Settings: Fiery 72-62C-KM Uncoated v1F	25
Gamut Mapping	25
Colorimetric Mapping: Closest dE (closest numerical match) Saturation Blending: Enhance Gamut Blending (smoother tr	
Perceptual Mapping: Perceptual (ICC standard)	
Edit Gamut Manning	
Separation settings	26
Maximum total Ink: 260%	20
Black Start: 20%	
Black Generation: 60%	
Maximum CMYK density ratio: 80% Black Width: 50%	
Black amount to extend gamut: 90%	
Edit Black Controls	
Maximum GCR	
Profile optimization	27
Optimize colorimetric precision (Recommended for proofing workflows)	/
Viewing condition	
Liakting volue	
D50 (Faual energy light)	
Click 'Next' when ready to create the profile	
Cancel <back next=""></back>	
😸 Fiery Printer Profiler X	28
Congratulationel	
You have successfully created a printer profile.	
Name: Malcolm test.icc	
Conversion CEDVED 00240400/10 100 220 57	
SERVER: SERVER-982A9A88/10.100.228.37	
Server: Server-3R5A3488/10.100.258.37	
Server: SERVER-982A9A88/10.100.228.57	
Server: SERVER-9BZA9A88/10.100.228.57	
Test Print	
Test Print Create a device link using this profile for this server.	
Test Print Image: Create a device link using this profile for this server.	
Test Print Create a device link using this profile for this server. Device Link	
Test Print Image: Create a device link using this profile for this server. Device Link	
Test Print Image: Create a device link using this profile for this server. Device Link	
Create a device link using this profile for this server.	
Test Print Image: Create a device link using this profile for this server. Device Link Image: Create a variant of this profile using new settings.	
Test Print Image: Test Print	
Test Print Image: Create a device link using this profile for this server. Image: Device Link Image: Create a variant of this profile using new settings. Image: Change settings	

The Apply settings window is displayed.

25. Make any changes as needed.

Defaults are usually a good choice unless advanced features are needed. **Maximum GCR** will deliver more neutral rendering if desired.

26. Click **Next** to process and optimize the profile.

-	×	×
Processing pro	file Cancel	Optimizing profile

27. Click your selection to the **Create a virtual printer** selection. This is recommended.

	Fiery Printer Profiler
	Create a virtual printer Malcolm test?
1	Yes No

28. Click Done.

[16]

Edit

17 1

S.

2.0.0 5/31/17, 5:21:45 PM 5/31/17, 5:21:45 PM Copyright (c) 2017 Electronics for Imagin



The new profile is automatically installed as an output profile on the Fiery server.

A Virtual Printer (or Workflow) is automatically setup under Device Center>Workflows>Virtual Printers. The new profile is automatically applied to all jobs using this workflow.

When Importing a job the new Virtual Printer is made available to apply upon import of any new job.

Held (22)	Prin	nted (1	0)	Archiv	/ed ((0)	+					
	User		Size Pages Copies		opies	Date/Time 🔽		Paper type	Paper size	Workflow		
			-					From To		-	-	
		qatest		0.9 MB	5	1		Yesterday 11:31:00 AM		Plain	A4	Ψ.
		qatest		1.7 MB	5	1		Yesterday 11:30:56 AM		Plain	A3	-
0		qatest		0.1 MB	7	1		Yesterday 11:28:48 AM		Color spe	8.5x11	
		Admin		0.1 MB	7	1		Yesterday 11:26:57 AM		Color spe	8.5x11S	Server Presets
		qatest		5.2 MB	1	1		Yesterday 10:58:08 AM		Color spe	8.5x11	Zup_landscape
		qatest		0.1 MB	7	1		Yesterday 9:56:52 AM		Color spe	8.5x11	Duplex_grayscar
		qatest		0.1 MB	7	1		Yesterday 9:56:27 AM		Color spe	8.5x11	Large booklet
		qatest		0.1 MB	7	1		Yesterday 9:36:25 AM		Color spe	8.5x11	Malcolm test
		Admin		0.5 MB	7	1		Yesterday 9:33:42 AM		Color spe	8.5x11	Small_booklet

The Virtual Printer is also made available under the Workflow column in Command WorkStation.

Job Center	Device Cente	er							SERVE	it obenome
📥 General	🧐 Color Setup	C Resource	s 🗖 🐺 We	orkflows	🍠 Users	🔒 Logs				
Job Presets	Virtual Printers	Image Enhan	ce							
irtual Printers	(Total: 5) 📑 Nev	v 🍃 Edit	🔁 Du	plicate	😪 Publist	n 🔍 Unpub	lish 🛛 🙀	Delete	-	
IC-313 direct			Malcolm	test						
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Fiery Con



Printer Match (common calibration) using the Printer Match module of FCPS



You must have purchased and installed a license for FCPS to use this feature.

- 1. Start Fiery Color Profiler Suite (FCPS).
- 2. Click on the **Printer Match** icon.

3. Select New common calibration (or Update common calibration).

The **New device link** selection does not trigger prints that require measurement therefore not demonstrated here, but fully supported.

4. Click **Next** to continue.



😸 Fiery Print Matcher	× 5.	Enter a Measurement name . This name will be your suggested profile name.
Select printers Measurement name: Session 3 Select printers: SERVER-5B3845B5 SERVER-9BZA9A88 SERVER-9BZA9A88	6.	Select up to five printers to be matched. Click the "+" to discover and add the Fiery servers. If the press models are not exactly the same type you will receive a warning to use an alternative method, Device Link. Take appropriate action.
Up to five printers can be selected for printer matching.	7.	Fiery Print Matcher One or more of the selected printers do not have matching models. This workflow is recommended for printers of the same model. Cancel OK Click Next when all Fiery servers have been
Click "Next" to set calibration print settings.		added.
Add Fiery Server	×	
Favorite list:		
SERVER-982A9A88	^	
SERVER-5B3845B5		
FI Furano20	~	
Add a Server: SERVER-5B3845B5/10.100.229.12 ~ ((Server name or IP address) OK Cancel	A	

(19)



Fatch Layout		
Instrument:		
IQ-501	\sim	
Patch set:		
21 random	~	
Chart size:		C
0.0X115	~	Custom



- 8. Select **IQ-501** from the Instrument pull-down.
- 9. Select an appropriate size from the **Chart size** pull-down. Ensure that it matches the media selection (next step).
- 9A. Optionally select warmup pages.
- 10. Click Print.

- 11. The **Fiery Measure** job properties window for the first server opens.
- 12. Select the Media tab.

- 13. Select the media attributes for the media you wish to use.
- 14. Click **OK** to print and measure the calibration chart for the first server.

FieryMeasure			×
Page is waiting to be printed			
		Cancel	



🗟 Fiery Print Matcher						×
Calibration mea	surem	ent resu	ilts			
	£	~~~~~~~~~~~	D Max v	values		
Server name	Cyan	Mage	Yellow	Black	Include	
SERVER-5B3845B5	1.37	1.20	0.83	1.61		<u>Reprint</u>
Printers can be late using "Update com To resume measuri Save and Quit	r included mon calib ng at a lat	l for matchin ration" in Fie er time, click	g, ery Print Ma "Save and	atcher. Quit".		
Click "Next" to	print and	measure cal	ibration pa	ge(s) for Si	ERVER-9B2/	A9A88.
0		Cancel		< <u>B</u> ac	k	<u>N</u> ext>

15. The **Calibration measurement results** are shown.

Ensure that the D Max values displayed are within the expected tolerance for the engine and media selected. **Reprint** or take appropriate service steps if not.

16. Click **Next** to continue the calibration of the second (and subsequent) server(s).

17. The Fiery Measure job properties window opens for the second server.
18. Select the Media tab.

- 19. Select the media attributes for the media you wish to use.
- 20. Click **OK** to print and measure the calibration chart for the second server.

FieryMeasure	_	_	_	_		×
Page is waiting to be pri	nted			_		
					Cancel	







This window will display after all servers in the list have been calibrated.

21. The **Calibration measurement results** for both servers are shown.

Ensure that the D Max values displayed are within the expected tolerance for the engines and media selected. **Reprint** or take appropriate service steps if not.

22. Click **Next** to continue with the printer profiling process.

- 23. Select IQ-501 from the Instrument pull-down.
- 24. Select an appropriate number of patches from the **Patch set** pull-down.

Since these patches will be read automatically select an appropriate number of patches for the desired precision or standard. More patches generally provides better precision. Note: more sheets will be also be used.

- 25. Select an appropriate size from the **Chart size** pull-down.
- 26. Click **Print** to print and measure the profiler patch pages for the first server.

Page is waiting to be printed		
		Cancel



Fiery Print Matcher					×
Chart: 234 Device: ILS Page 1 of 1					A
The chart was loaded from external file. To get detailed color information, move In the magnified view, move the cursor	the navigation box over the over the desired color patch.	desired strip		_	
Cancel				< Back	Next >
🗟 Fiery Print Matcher					×
Summary					
Session 3					
Server name	dE average	dE	maximum		
SERVER-5B3845B5	0.6	2.2		<u>Reprint</u>	
* Highest dE value per printe	er.				
To resume measuring at a la	ter time, click "S	ave and	Quit".		
Save and Quit					
Inspect Measurem	ients				
Click "Next" to print an	d measure profili	ng pag	e(s) for SERVER	-9B2A9A88.	
		5,9			
	Cancel		<back< td=""><td>Next></td><td></td></back<>	Next>	

The results of the Fiery measure module for the first server are automatically displayed.

27. Click **Next** to continue.

The measurements summary for the first server is displayed.

- 28. Review the **dE average and dE maximum** for anomalies. Take appropriate action as needed.
- 29. Optionally click on the **Inspect Measurements** button to review the gamut map.
- 30. Click **Next** to continue printing and measuring the patch pages for the second server.

Page is waiting to be prin	ted	
		Cancel







The results of the Fiery measure module for the second server are automatically displayed.

31. Click **Next** to continue.

The measurements summary for both servers is displayed.

- 32. Review the **dE average and dE maximum** for anomalies. Take appropriate action as needed.
- 33. Optionally click on the **Inspect Measurements** button to review the gamut map(s).
- 34. Click **Next** to continue.



Apply settings				
Settings: Generic CMYK	(~ ()	
Gamut Mapping				
Colorimetric Manui	neu Classet dE (ele		al match)	
Saturation Blendi	ng: Enhance Gam	ut Blendina (smoother tr	
Perceptual Mappi	ng: Perceptual (IC	C standard)		
Edit Gamut Ma	pping			
Separation settings				
Maximum tot	al Ink: 320%			7
Maximum Blac	k Ink: 100%			-
Black Gener	start: 20% ation: 50%			
Increase black in shad	dows: 0%			1
Maximum CMYK density Black V	ratio: 0% Vidth: 40%			-
Black amount to extend ga	amut: 100%			
Edit Black Controls				
Maximum GCR				
Profile optimization				
Optimize colorimetric	precision (Recom	mended for p	roofing workflow	s)
Click 'Next' when	ready to create th	e profile.		
		_		



The Apply settings window is displayed.

- 35. Click on the **Settings** pull-down and select **Import Settings...**
- 36. Navigate to one of the Fiery servers that you are matching and choose a base profile that closely resembles the media that you are using.

Apply s	ettings	
Settings:	Generic CMYK	Image:
Gamut Ma	Settings	
	Generic CMYK	
Col	Toner	match)
S		other tran
P	Import Settings	
(Edit Gamut Mapping	

- 37. Once a base profile has been selected make any changes as needed for Gamut mapping and Separation settings (*defaults are usually a good choice unless advanced features are needed*).
- 38. Click Next to continue.



🗟 Fiery Print Matcher	39. Fill out Comments and Media as required. Rename the final profile description if desired
Save Profile Profile description: Session 3 Comments: Media:	40. Click Next to process and install the Print Matcher profiles and calibration sets on each server.
Click 'Next' to save profile.	
Click 'Next' to save profile. Cancel <back next=""></back>	
Click 'Next' to save profile. Cancel <back next=""> Fiery Print Matcher Congratulations! You have successfully created a printer profile.</back>	41. Click Done.
Click 'Next' to save profile. Cancel <back next=""> Fiery Print Matcher > Congratulations! You have successfully created a printer profile. Name: Session 3.icc Server: SERVER-58384585 SERVER-982A9A88</back>	41. Click Done.
Click 'Next' to save profile. Cancel <back next=""> Encl <back next=""> Cancel <back next=""> Congratulations! You have successfully created a printer profile. Name: Session 3.icc Server: SERVER-583845B5 SERVER-982A9A88 Test Print</back></back></back>	41. Click Done.



Fiery Color Verifier with three reference preset choices



ОК

Cancel

27

Factory Defaults

You must have purchased and installed a license for FCPS to use this feature.

The first time you use Fiery Color Verifier with the IQ-501 you will need to set the preferences as follows.

- 1. Start Fiery Color Profiler Suite (FCPS).
- 2. From the menu select Edit>Preferences...
- 3. Select the **Verifier** tab from the Preferences window.
- 4. Read and acknowledge the pop-up message.

- 5. Select the **Fiery** server. Click on the "+" to discover the Fiery server if not listed.
- 6. Select the **IQ-501** in the Instrument pull down.
- 7. Click OK.





 FieryMeasure
 ×

 Patch Layout
 Instrument:

 IQ-501
 >

 Patch set:
 IDEAlliance ISO 12647-7 Control Wedge 2013

 Chart size:
 8.5x11

 8.5x11
 Custom

Once the Presets have been adjusted.

8. Click on the Verify icon.

- 9. Select one of the three reference presets available when the IQ-501 has been preselected.
 - Fogra 2.2 media wedge.
 - Fogra 3.0 media wedge.
 - ISO12647-7 Control Wedge 2013.
- 10. Click **Print** to continue.

- 11. Select an appropriate Chart size for the media you wish to use.
- 12. Click **Print** to continue.







- 13. The **Fiery Measure** job properties window opens.
- 14. Select the **Media** tab.
- 15. Select the media attributes for the media you wish to use.
- 16. Click **OK** to print and measure the selected control strip.

FieryMeasure				×
Page is waiting to be pr	inted			
			Cancel	
				_

The results of the Fiery measure module are automatically displayed with the selected control strip.

- 17. Click **Next** to continue and verify the measurements with the selected reference.
- 18. The results are displayed based on predefined tolerances.

0	Verifie	r
L a b R 1 55.00 -37.00 -50.00 2 66.90 -24.70 -37.10 3 79.70 -12.50 -21.80 4 48.00 74.00 -3.00 5 60.80 50.60 -6.70 6 76.40 25.80 -6.90 7 89.00 -5.00 93.00 8 90.30 -4.70 62.60 9 92.20 -35.03 12.00 0 53.10 37.70 28.90 1 41.60 22.70 16.80 [2 31.90 40.00 24.00 13 32.50 44.50 -1.80 [4 51.30 1.30 44.50 15 34.60 -36.40 13.90 Measure Open \$\$	E ØE S L a b S L.66 -34.64 -51.62 2.93 G3.51 -26.32 -37.65 2.05 78.18 -14.30 -19.58 2.81 45.70 75.24 -3.78 2.73 57.55 55.79 -10.28 1.85 73.83 30.44 -9.08 2.93 53.31 5.43.277 2.05 3.93 91.34 -2.97 28.42 2.05 93.34 -2.97 28.45 2.93 53.31 37.37 30.91 2.05 43.49 24.38 17.91 2.76 34.42 48.15 -3.11 2.93 54.73 1.67 45.05 2.05 39.36 -35.97 14.16 2.76	Color space Jobilst/Preview
ethod: ISO 12647-8 Validation Print "Med Reference	ia Wedge" Sample	Comparison Settings ISO 12647-8 Validation Print "Media Wedge"
Name: TR006-IDEA1 Ref.it8 Date: "May Time: Info text: "IDEAliance ISO 12647-7 Control Wedge 2013 No. patches: 84 Printer: Reference profile:	Name: Measurements.it8 Date: 6/6/17 Time: 11:20:30 AM Info text: No. patches: 91	Results Delta E Delta H Delta T Delta Ch Delta L Delta E Tolerance Measured Average all patches 3 3 ✓ Maximum all patches 8 8 ✓ Average Delta Ch 2.5 2.5 ✓
		Measuring device Not connected Connect
ged in Measuring r	nethod: Single Measuring device: IQ-501	Chart: IDEAllirol Wedge 2013 Illuminant: D50 Delta E format: dE CIE7



Activating Fiery Color Profiler Suite with the IQ-501

Please contact your sales person or dealer to purchase a Fiery Color Profiler Suite license activation code (LAC).

Part 1: Retrieving the IQ-501 serial number:



Server License

× + -

Run in demo mode

Activate

30

Click "Run in demo mode" to run Fiery Color Profiler Suite with limited

Select server

SERVER-D9CD27A1

ectrophotometer serial number: A92W012345678

Click "Activate" to continue.

functionality

Fiery Color Profiler Suite (*FCPS*) uses an *instrument serial number as the "dongle" to activate the software. To easily retrieve the IQ-501 serial number follow these steps.*

- 1. Make sure that FCPS version 4.9.1 or later is installed on your Fiery server, or if you wish to install on a networked PC or Mac you may do so as well. The procedure is the same.
- 2. Make sure that there is no licensed instrument attached, for example an ES-2000 or other instrument that already has a license.
- 3. Start **Fiery Color Profiler Suite** (FCPS) and wait for the **Dongle not found** window.
- 4. Click on Server License.

al number: A92W012345678

Please write the serial number here:

5. Select the Fiery server from the **Select server** list, or if not there click on the "+" symbol to discover.

Fiery server license not found	discover.
Please select a Fiery server with a licensed inline spectrophotometer to	Add Fiery Server
Select Fiery server	Favorite list:
Click "Activate" to continue. Click "Run in demo mode" to run Fiery Color Profiler Suite with limited functionality.	Add a Server: SERVER-D9CD27A1/127.0.0.1 (Server name or IP address) OK Cancel
	6 Take note of the IO-501 serial number displayed
Server License	You will need to enter this number in a later step.
Fiery server license not found	 Close this window once the IQ-501 serial number has been written down.
Please select a Fiery server with a licensed inline spectrophotometer to run Fiery Color Profiler Suite in licensed mode.	



Part 2: Activating the License Activation Code (LAC) with the IQ-501 serial number:



8. Click on Download License, read and acknowledge the pop-up message.



9. You are directed to the EFI fulfillment site for FCPS:

https://activation.efi.com/fulfillment/cps/

10. Enter the license activation code (LAC) that you purchased.

11.Click Submit.

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-	tantan and	Monito	r.	Login				Help Contact Us	
6		Device		Please enter the serial number of the EFI spectr	rophotometer y	u are activating.	•		
				EFI Spectrophotometer Serial Number					
				Where can I find the serial number of the spectr	ophotometer to	be used for activation?			
						Or			
				If you received an License Activation Code (LAC	C) with your sof	ware, please enter that here.			
				License Activation Code (LAC)	00	001-89987-ABCDE-FGHIJ			
						Submit			
© 2016 6750 Du Fremon United S Phone:	EFI, Inc. A umbarton C It, CA 9455 States +1 650 357	II Rights Res Dircle 5 7-3500	erved.						v 3.0.1155 (08/12/2015)



12. Click Next>.

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https://activation.efi.com/	/fulfillment/cr 🔎 🗕 🖒	EFI License Fulfillment ×					☆☆☆
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	Select Items to Fulfil	Ontion	Version	Quantity	Quantity Fulfilled	Duration (days)	
	✓ 1 SW LAC,FIE	ERY CPS 4.X	4.9	1	0	Permanent	
	Click the Next> button to	proceed to the next step, < Previous button	to go to th	ie previous	screen.		
© 2018 EFI, Inc. All Rights Reserved. 6750 Dumbarton Circle Fremont, CA 94555 United States Phone: +1 650 357-3500							v 3.0.1155 (08/12/2015)

- Enter the IQ-501 serial number that you wrote down earlier (Step 7, Page 30) in the EFI Spectrophotometer field.
- 14. Click Next.

		_ 🗆 🗙
+ ttps://activation.efi.co	m/fulfillment/cg 𝔎 ▾ 🖨 Ĉ 🚺 EFI License Fulfillment 🛛 🗙	₼ ★ 🕸
CFi print to win.		
	Fulfillment Home Help Contact Us Logout	•
Printer	Host Information	
Honter	License Activation Code (LAC): 00001-89987-ABCDE-FGHIJ Product :Color Profiler Base 4.9	
Device	Enter your EFI Spectrophotometer below. This identifies one or more pieces of hardware that the license will lock to.	
	EFI Spectrophotometer O A92W012345678	
	Click the Next> button to proceed to the next step, <previous button="" go="" previous="" screen.<="" td="" the="" to=""><td></td></previous>	
	<previous next=""></previous>	
	indicates a required field	
	Where can I find the serial number of the spectrophotometer to be used for activation?	
	The serial number is a 6, 7 or 8 digit number that can be found on the instrument or the instrument cradle:	
	ES-1000: X XXX-123456 X ES-2000: 1 234 567	
	Konica Minolta KM DBI: 12343078 Konica Minolta KM FD9: 12345678	
	E-rouru 1/2490 Barbieri Spectro LFP: B123456 Barbieri Spectro B123456	
	Barbieri Spectro Swing: A123456 X. Pita id ISie (idise XI - 123456	
	X-Rite i1iSis/i1iSis XL: 123456	

32)



15. Click Generate License.

						- 🗆 🗙
https://activation.efi.com/f	fulfillment/cr. 🔎 👻 🚔 EFI License Fulfillment 🛛 🗙					n ★ Ø
efi print to win.						
			Fulfilli	ment Home Help C	Contact Us Logout	
Printer	Confirm Your Selection					
Monitor	Please review the following information carefully.					
Desice	License Activation Code (LAC): 00001-89987-ABCDE-F EFI Spectrophotometer : A92W012345678	GHIJ				
	Item(s) selected for fulfillment					
	Item # Option	Version	Quantity	Quantity to Fulfill	Duration (days)	
	1 SW LAC, FIERY CPS 4.X	4.9	1	1	Permanent	
	Click the Generate License button to generate license for the iten screen.	n(s) display	ed above, <	Previous button to go	to the previous	
	<previous generate="" license<="" th=""><th></th><th></th><th></th><th></th><th></th></previous>					
© 2018 EEL Ion All Piebbe Personed						
8720 Dumbarton Circle Fremont, CA 94555 United States Phone: +1 650 357-3500						v 3.0.1155 (08/12/2015)

16. Click Save to file.

Please follow instructions to save the .lic file that appear (depending on your browser).

		- 🗆 🗙
+ ttps://activation.efi.com/	fulfillment/c; $P = \oplus C$ EFI License Fulfillment ×	🏠 🛣
effi print to win.		
	Fulfillment Home Help Contact Us Logout	
Printer	License(s)	
Manter	License Activation Code (LAC): 00001-89987-ABCDE-FGHIJ Product : Color Profiler Base 4.9	
	A license file has been successfully generated.	
	You must save the file to the appropriate location on your network in order to use the licensed product(s). Please refer to your manual for the location and instructions on how to install the license file. You may also click the View License File button to view the license file.	
	Seno by e-mail to	
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	33)	



17. Navigate to the downloads folder of your computer (or your chosen location) and copy the **.lic** file to the **desktop**.

Make sure that the .lic file is on the desktop of the computer where you wish to activate FCPS with the IQ-501.

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File Home Share View				
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☆ Favorites	Name	Date modified	Туре	Size
Desktop	A92W012345678_20161130003540.lic	2016/11/30 2:36 PM	LIC File	1 KB
Downloads				
Recent places				
🤣 Homegroup				
📲 This PC				
📔 Desktop				
Documents				

34



18. Close Color Profiler Suite and restart it.

The .lic file on your desktop will be used to activate your copy of FCPS with the IQ-501.

19. You are now ready to use the IQ-501 with Fiery Color Profiler Suite!

Note that FCPS is now licensed using the IQ-501 serial number.

EFI fuels success.

From Fiery to super wide inkjet, from the lowest cost per label to the most automated business processes, EFI has everything your company needs to succeed. Visit www.efi.com for more information.



The APPS logo, AutoCal, Auto-Count, Balance, Best, the Best logo, BESTColor, BioVu, BioWare, ColorPASS, Colorproof, ColorWise, Command WorkStation, CopyNet, Cretachrom, Cretaprint, the Cretaprint logo, Cretaprinter, Cretaroller, DockMet, Digital StoreFront, DocBuilder, DocBuilder Pro, DocStream, DSFdesign Studio, Dynamic Wedge, EDOX, EFI, the EFI logo, Electronics For Imaging, Entrac, EPCount, EPPhoto, EPRegister, EPStatus, Estimate, ExpressPay, Fabrivu, Fast-4, Fiery, the Fiery Joriven, the Fiery Driven logo, Fiery JobPhow, Fiery JobMaster, Fiery Link, Fiery Prints, the Fiery Prints logo, Fiery Spark, FreeForm, Hagen, Initensity, Iniware, Jetrion, the Jetrion logo, LapNet, Logic, MiniNet, Monarch, MicroPress, OneFloxy, Pace, PhotoXposure, Printcafe, PressVu, PrinterSite, PrintFlow, PrintMe logo, PrintSmith Srite, Printstream, Print to Win, Prograph, PSI, PSI Fexo, Radius, Rastek, the Rastek logo, Remoteproof, RIPChips, RIP-While-Print, Screenproof, SendMe, Sincrolor, Splash, Spot-On, TrackNet, UltraFrex, UltraFrex, UltraFies, UltraFies, Oldier, UUTEk, the VITEk logo, and WebTools are trademarks of Electronics For Imaging, Inc. and/or its wholly owned subsidiaries in the U.S. and/or certain other countries. All other terms and product names may be trademarks of their respective owners, and are hereby acknowledged.