

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.

Auto Image Adjustment	4
Fiery Calibration from the Press Control Panel	5
Fiery Calibration from Fiery Color Profiler Suite (FCPS)	8
Printer Profiling using the Printer module of FCPS including G7 calibration	11
Printer Match (common calibration) using the Printer Match module of FCPS	18
Fiery Color Verifier with three reference preset choices	27
Activating Fiery Color Profiler Suite with the IQ-501	30

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 Name:		Installed Options:
IP Address:	10.15.15.109	Fiery Graphic Arts Package, Premium Edition
		Fiery Advanced Controller Interface Kit
Hard Drive:	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 Clear 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.

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



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

8. Press Continue.

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



Fiery Calibration from Fiery Color Profiler Suite (FCPS)





😗 Calibrator

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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.

Select a task

Flery server:
fif it is

SERVER-982A9A88
fif it is

@ Recalibrate
Update an existing calibration to match its color benchmark.

O Create calibration
Create a new calibration and profile to establish color behavior for a new printing condition.

Next

Cancel

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

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

5. Select Recalibrate and click Next.

In this exercise we are recalibrating an existing calibration set.



💞 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.
•	Cancel	Print	

9)





10 1

- 11. The Fiery Measure job properties window
- 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

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

Fiery Ca	librator	×
1	Measurements are successfully applied to Uncoate	d
	ОК	



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



Patch Layout	
Instrument:	
IQ-501	~
Patch set:	
21 random	~
Chart size:	
8.5x11S	✓ Custom
Number of warmup page	es:
1 🖨	
••••••	••••
Click "Print" to print pa	tch pages on server : 10.100.228.57.
Click "Print" to print pa	
Click "Print" to print pa	tch pages on server : 10.100.228.57. Cancel Print
Click "Print" to print pa	
Click "Print" to print pa	
	Cancel Print
2	Cancel Print Cancel Print Image Finishing VDP Summary Reset
2 Access Job Info Media Layout Colo Paper Catalog:	Cancel Print Print Print Print Print Print Paper type:
Reper Catalog: none defined	Cancel Print Printage Finishing VDP Summary Reset Paper type: Color specific 0
Image: Second	Cancel Print Print Print Print Print Print Paper type:
Reper Catalog: none defined	Cancel Print Printshing VDP Summary Reset Paper type: Color specific 0 User color name:
Paper Catalog: none defined Select Colored paper: White	Cancel Print Cancel Print Image Finishing VDP Summary Reset Paper type: Color specific © User color name: Paper tray:
Image: Colored paper: White Colored paper: White Punched paper:	Cancel Print Cancel Print Image Finishing VDP Summary Reset Paper type: Color specific © User color name: Paper tray:
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Image: Colored paper: White Colored paper: White Punched paper:	Cancel Print Tr Image Finishing VDP Summary Reset Paper type: Color specific © User color name: Paper tray: Auto tray select © Paper weight: 81-91 g/m2 ©
Image: Second	Cancel Print r Image Finishing VDP Summary Paper type: Color specific © User color name: Paper tray: Auto tray select Paper weight:
Paper Catalog: none defined © Select Colored paper: White © Punched paper: No hole-punch Your Tray alignment Paper size:	Cancel Print Tr Image Finishing VDP Summary Reset Paper type: Color specific © User color name: Paper tray: Auto tray select © Paper weight: 81-91 g/m2 ©
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Image: Select Colored paper: White Punched paper: No hole-punch Image: Tray alignment Paper size: Sx115 Custom	Cancel Print Tr Image Finishing VDP Summary Reset Paper type: Color specific © User color name: Paper tray: Auto tray select © Paper weight: 81-91 g/m2 ©
Image: Second system Image: Second system Access Job Info Image: Second system Paper Catalog: none defined Image: Second system Image: Second system Paper Catalog: none defined Image: Second system Image: Second system White Image: Second system Image: Second system White Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system	Cancel Print Tr Image Finishing VDP Summary Reset Paper type: Color specific © User color name: Paper tray: Auto tray select © Paper weight: 81-91 g/m2 ©
Image: Select Colored paper: White Punched paper: No hole-punch Image: Tray alignment Paper size: Sx115 Custom	Cancel Print Image Finishing VDP Summary Reset Paper type: Olor specific Olor User color name: Paper tray: Auto tray select Olor Paper tray: Auto tray select Olor Olor B1-91 g/m2 Olor Olor Olor (separate page by comma) Color Olor Olor
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Paper Catalog: none defined Select Colored paper: White Punched paper: No hole-punch Imager Size: Baskils Custom Mixed media paper Start Page(s): Define Each Chapter As A wr Imager Cores Page Ranges	Cancel Print Image Finishing VDP Summary Reset Paper type: Color specific User color name: Paper tray: Auto tray select Paper tray: Auto tray select Paper tray: Start page by commal (separate page by comma)

- 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.

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- 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.

FieryMeasure	× ×
Page is waiting to be printed	
	Cancel
2	ose the G7 gray balance
•	et option in step 9, additional ets are generated here.
	the process continues 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 Pointer Portier
 X

 Chart: 234 Device: ILS Page 1 of 1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 Image: Chart: 234 Device: 10 of 1 of 10 of 10

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.



le Fiery Printer Profiler X	
Apply settings	
Settings: Fiery 72-62C-KM Uncoated v1F view	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 Mapping	
Edit Gamut Mapping	
Separation settings	26
Maximum total Ink: 260% Maximum Black Ink: 100%	26
Black Start: 20%	
Black Generation: 60% Increase black in shadows: 25%	
Maximum CMYK density ratio: 80% Black Width: 50%	
Black amount to extend gamut: 90%	
Edit Black Controls	
	1
Profile optimization	27
Profile optimization Optimize colorimetric precision (Recommended for proofing workflows)	21
Viewing condition Lighting value:	
D50 (Equal energy light) View	
Click 'Next' when ready to create the profile.	
Cancel <back next=""></back>	
😸 Fiery Printer Profiler 🛛 🗙	28
	-
Congratulations!	
Vou have successfully created a printer profile	
You have successfully created a printer profile.	
You have successfully created a printer profile. Name: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57	
Name: Malcolm test.icc	
Name: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57	
Name: Malcolm test.icc	
Name: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57	
Name: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57 Test Print	
Name: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57 Test Print	
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Mame: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57 Test Print Create a device link using this profile for this server.	
Name: Malcolm test.icc Server: SERVER-9B2A9A88/10.100.228.57 Test Print Test Print Image: Test Print Test Print	
Name: Malcolm test.icc General Server: SERVER-9B2A9A88/10.100.228.57 Test Print Image: Comparison of the server of the se	
Hame: Marcel Generation Test Print Image: Constraint of this profile using new settings.	
Name: Malcolm test.icc General Server: Test Print Create a device link using this profile for this server. Device Link	
Hame: Marcel Generation Test Print Image: Constraint of this profile using new 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 profile	e Cancel	Optimizing profile

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

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

28. Click Done.

[16]

ale Source Profiles ource Profiles

ice Link Profiles

Media type

alcolm test

1

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

Edit



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

Workflows 1. S. L Lo 💽 🔁 C E Duplicat 🔓 IC-313 dir Malcolm test 着 IC-313 hold Job action: Hold Preflight: Disabled 🚔 IC-313 print IC-313 seq Sattinge Grayscale source: Dot Gain 20% points Units: Output profile: Malcolm test Paper size: 8.5x11S RGB Source: sRGB (PC) Add... File(s) to import: Size 2817 KB Name /Users/malcolmc/Documents/__P..._New_Features_Guide_US_pdf.pdf Apply default settings Apply workflow Server Presets 👰 2up_landscape Duplex_grayscale Duplex_staple Large_booklet 👳 Small_booklet ٥

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 (10	0)	Archiv	red (0)	H	E					
		User		Size	Page	s Cop	ies	Date/Time 🔽		Paper type	Paper size	Workflow
			-]		From To		-	•	•
		qatest		0.9 MB	5	1		Yesterday 11:31:00 AM		Plain	A4	*
		qatest		1.7 MB	5	1		Yesterday 11:30:56 AM		Plain	A3	-
p		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	2up_landscape Duplex_grayscale
р		qatest		0.1 MB	7	1		Yesterday 9:56:52 AM		Color spe	8.5x11	Duplex_grayscan
p		qatest		0.1 MB	7	1		Yesterday 9:56:27 AM		Color spe	8.5x11	Large booklet
р		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
		A		a	-		_	V	_	Automation	A	-10

Hold

Process & Hold | -

Cancel

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



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-58384585 SERVER-982A9A88	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.		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" to set calibration print settings.	7.	Click Next when all Fiery servers have been added.
Cancel <back next=""></back>		
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 Cance	el	



Instrument IQ-501	3			
			~	
Patch set: 21 randon				
Chart size:	1		~	
8.5x11S			~	Custom
1		:		



- 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 print	ed			
			Cancel	
				_



Fiery Print Matcher Calibration mea Image: Constraint of the second s		ent resu	ilts			×
	**************************************	*******	D Max v			
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	mon calib	oration" in Fie	ery Print Ma			
Click "Next" to	print and	measure cal	ibration pa	ge(s) for SE	ERVER-9B2/	A9A88.
2		Cancel		< <u>B</u> ack	< [<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 printed			
Page is waiting to be printed		Cancel	-
		cuncer	

A				in 🔼	- S	S		
uick Access	Job Info Me	edia Layout	Color In	iage Finishing	VDP	Summary		
							Re	eset
Pane	r Catalog:			• Paper		••••		
	ne defined	0		• •	r specific			
	select			:				
				User c	olor name:			
	red paper:							
L Wh	ite ᅌ				• • • • •	•••••	•••	
Punc	hed paper:			Paper	tray: tray select	: 0	1	
	hole-punch	0		Auto	tray select			
		_		• • Paper	weight:		:	
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Mixed	l media							
Chapter Start	Page(s):			(separate page	by comma)			
		fine Each Chapte		e Calabian Can				
	U De		er As A Separa	ite Finishing Set				
Show: 🗹 Al	l 🗹 Covers	🗹 Page Range:	s 🗹 Blank F	'ages 🗹 Tabs				
Description	Color mode	Duplex	Glossy	Tab shift	Colored	paper Punched p	ape Paper type	Pa





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.

FieryMeasure		
Page is waiting to be printed		
		Cancel



Fiery Print Matcher						×
Chart: 234 Device: ILS Page 1 of 1						
The chart was loaded from external file. To get detailed color information, move the In the magnified view, move the cursor ove	navigation box over the r the desired color patch	desired strip	2			
Cancel					< Back	Next >
🗟 Fiery Print Matcher						×
Summary						
Session 3						
Server name	dE average	dE	maximum			
SERVER-5B3845B5	0.6	2.2		<u>Re</u>	<u>print</u>	
* Highest dE value per printer.						
To resume measuring at a late	r time, click "S	ave and	Quit".			
Save and Quit						
Inspect Measuremer	nts					
Click "Next" to print and	measure profili	ing page	e(s) for SER\	/ER-91	82A9A88.	
•	Cancel		<back< td=""><td></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	ited	
		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 Mapping: Closest dE (closest numerical match) Saturation Blending: Enhance Gamut Blending (smoother tr	
Perceptual Mapping: Perceptual (ICC standard)	
Edit Gamut Mapping	
Separation settings	
Maximum total Ink: 320% Maximum Black Ink: 100% Black Start: 20% Increase black in shadows: 0% Maximum CMYK density ratio: 0% Black Width: 40% Black amount to extend gamut: 100%	/
Maximum GCR	
Profile optimization	
Optimize colorimetric precision (Recommended for proofing work)	flows)
Click 'Next' when ready to create the profile.	
Cancel <back< td=""><td>Next></td></back<>	Next>



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 × Save Profile	39. Fill out Comments and Media as required. Rename the final profile description if desired
Profile description: Session 3 Comments: Media: Click 'Next' to save profile.	40. Click Next to process and install the Print Matcher profiles and calibration sets on each server.
Cancel <back next=""></back>	
Firey Print Matcher × Image: Congratulations! You have successfully created a printer profile.	41. Click Done.
Name: Session 3.icc	
Server: SERVER-583845B5 SERVER-9B2A9A88	



Fiery Color Verifier with three reference preset choices



οк

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

 Click "Print" to print patch pages on server : 10.100.228.57.

 Image: Cancel Back Print...

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 pri	nted			
			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.



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 run Fiery Color Profiler Suite in licensed mode.		Add Fiery Server
Select 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 v (Server name or IP address)
Run in demo mode Activate		OK Cancel
Server License X	6.	Take note of the IQ-501 serial number displayed.
Server License	0.	You will need to enter this number in a later step.
Fiery server license not found	7.	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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		(onitor	Help Contac	t Us
6		🤯 De	vice	Please enter the serial number of the EFI spectrophotometer you are activating.	
				EFI Spectrophotometer Serial Number	
				Where can I find the serial number of the spectrophotometer to be used for activation?	
				Or	
				If you received an License Activation Code (LAC) with your software, please enter that here.	
				License Activation Code (LAC) 00001-89987-ABCDE-FGHIJ	
				Submit	
	© 2016 EFI, Inc 6750 Dumbarto Fremont, CA 94 United States Phone: +1 650 3	n Circle 1555	Reserved.		v 3.0.1155 (08/12/2015)



12. Click Next>.

Attps://activation.efi.com/	fulfillment/cr 오	EFI License Fulfillment ×					- □ <mark>×</mark>
Cfi ^r print to win.							
Pioter	Entitlement Inform	ation		Fulfillm	ent Home Help Co	ontact Us Logout	
Montor	License Activation Code (LAC): 00001-89987-ABCDE-FGHIJ Product : Color Profiler Base 4.9						
	Select Items to Fulfill	Option	Vorsion	Quantity	Quantity Fulfilled	Duration (days)	
		RY CPS 4.X	4.9	1	0	Permanent	
	Click the Next> button to <pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <!--</th--><th>vroceed to the next step, <previous button<="" th=""><th>to go to th</th><th>e previous</th><th>screen.</th><th></th><th></th></previous></th></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	vroceed to the next step, <previous button<="" th=""><th>to go to th</th><th>e previous</th><th>screen.</th><th></th><th></th></previous>	to go to th	e previous	screen.		
© 2016 EFI, Inc. All Rights Reserved. 6750 Dumbarton Circle Fremont, CA 94555 United States Phone: +1 650 357-3500							v 3.0.1155 (06/12/2015)

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

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+ 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 5BT: 12345678 Konica Minolta KM FD9: 12345678	
	ES-6000: 123456 Barbieri Spectro LFP: B123456 Barbieri Spectropad. B123456	
	Barbieri Spectro Swing: A123456	
	X-Rite i1iSis/i1iSis XL: 123456	

32)



15. Click Generate License.

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	fulfillment/cp 🔎 🗧 🖒 👗 EFI License Fulfillment 🛛 🗙					ि ★ 🕸
Cfi 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 1 SW LAC,FIERY CPS 4.X	Version 4.9	Quantity 1	Quantity to Fulfill	Duration (days) 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>					
© 2016 EFI, Inc. All Rights Reserved.						
972010 EPT, Inc. All regists Reserved. 8750 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).

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	fulfillment/cr. 𝒫 マ 🔒 𝔅 Ki License Fulfillment 🛛 ×	₼ ☆ 🌣
effi print to win.		
	Fulfillment Home Help Contact Us Logout	
Printer	License(s)	
kontre	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.	
	Send by e-mail to Send Email	
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	33,9	



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 logo, Fiery Driven logo, Fiery JobPlow, Fiery JobMaster, Fiery Link, Fiery Prints, the Fiery Prints logo, Fiery Spark, FreeForm, Hagen, Inixtensity, Inixvare, Jetrion, the Jetrion logo, LapNet, Logic, MiniNet, Monarch, MicroPress, OneFloxy, Pace, PhotoXposure, Printcafe, PressVu, PrinterSite, PrintFlow, PrintMe, the PrintMe logo, PrintSmith, FrintSmith Stite, 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, UltraFive, UltraFive, SulturaTex, UltraFive, Studies, ON, UNTEK, 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.