

DICOM Embedded Printing Function User's Guide

OKI DICOM Embedded Printer Version 4 Series

C911/C931 DICOM ES9411/ES9431 DICOM Pro9431 DICOM

IMPORTANT:

This manual describes all the functionalities available in the full-option version of OKI DICOM **Embedded Printer V4.00**. Available functionalities of your product may be different from those described in this manual.

Introduction

This manual describes how to print from OKI DICOM Embedded Printer supporting DICOM Protocol.

Refer to the user manual of the standard printer model for instructions on tasks such as how to load paper and replace consumables in OKI DICOM Embedded Printer.

OKI DICOM Embedded Printer prints DICOM format images sent via a network from medical imaging applications and medical devices.

OKI DICOM Embedded Printer can generate pages in both grayscale and color.

CAUTION!

This is not medical equipment. Do <u>not</u> use the printed images from this equipment for medical diagnosis.

Features of OKI DICOM Embedded Printer

- High quality printing with ProQ2400 © multi-level technology
- Compliant with the DICOM 3.0 standard
- Reliability
- Ergonomic features
- Achieves low-cost DICOM-compatible printing

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Document Terminology

Control panel and web interface messages are all provided in English in this document.

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1. Setting up OKI DICOM Embedded Printer

1-1 Install the printer

The following procedures are performed in accordance with the Setup Guide/User's Guide/Network Guide supplied on CD/DVD with the printer.

- (1) Unpack OKI DICOM Embedded Printer (hereinafter referred to as printer) from the packing box and install it.
- (2) Remove the protective tapes and the protective sheets from the printer.
- (3) Open the top cover, and remove the stopper (orange) of the fuser unit.
- (4) Install the image drum.
- (5) Load paper on the paper tray.
- (6) Connect the AC cord to the printer, and turn on the power.

Note: Do not connect the network cable to the printer yet.

- (7) Enter the IP address, which is provided by your network administrator, using the printer control panel.
- (8) Perform test printing, and confirm that the IP address is set for the printer correctly.
- (9) Connect the network cable to the printer.

Next, set up the printer from your PC (Personal Computer) as instructed as follows. Prepare a PC connected to the same network as the printer.

Caution: OKI DICOM Embedded Printer does not move from Power Save mode to Sleep mode.

1-2 Open DICOM Embedded Printer home page

Open the web browser on your PC.

Note: This will work even if the PC is not connected to the Internet.

In the address bar of your web browser, enter the IP address set to the printer as follows.

Example:

When the IP address set to the printer is 192.168.0.13, enter "http://192.168.0.13:8080/oki/dcm" in the address bar.

6 0	🖉 OKI DICOM Print SCP - Windows Internet Explorer					
\bigcirc	🚱 🗢 🙋 http://192.168.0.13:8080/oki/dcm					
File	Edit	View	Favorites	Tools	Help	

Note: This action might not be successful if done just after "Ready" is displayed on the printer control panel. In this event, wait for 5 to 10 seconds and try again.

DICOM Embedded Printer home page is displayed.

OKI			
Print SCP Main Frame			
SETUP			
ADMIN			
CONFIG			
LOG			
YOU ARE ON THE DICOM SERVER MAIN PAGE, YOU CAN ACCESS INFORMATION ON			
PARAMETERS AND ADJUST SETTINGS OF THE DICOM IMAGING.			

FOR PRINTER PARAMETERS SUCH AS PAPER SETTINGS, PLEASE REFER TO PRINTER MANUAL.

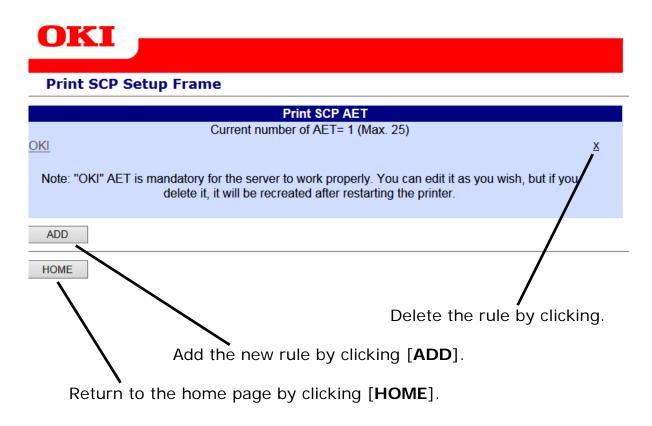
1-3 Setup of AETs

(1) Click [SETUP].

OKI	
Print SCP Main Frame	
	SETUP
	ADMIN
	CONFIG
	LOG

(2) The print rules represented by the AET (Application Entity Title) will be listed. You can create as many as 25 rules to match your requirements.

You can edit the rules by clicking the rule names (in this case [OKI]).



(3) Click [ADD] to get a new AET.

Example of new AET screen

OKI

Print SCP Setup Frame

	Print SCP AET Configuration			
	AET Name: NEW_AET_1			
Activate Max DICOM Log:				
	Paper (Use US Format Paper)			
Printer Tray:	● Auto ○ Tray1 ○ Tray2 ○ Tray3 ○ Tray4 ○ Tray5 ○ MPTray CLIENT			
Сору:				
Page Format:	© Client ○ A4/Letter ○ A3/Tabloid ○ A3 Nobi ○ 215 x 900 mm ○ 215 x 1200 mm			
	○ 297 x 900 mm ○ 297 x 1200 mm ○ 328 x 900 mm ○ 328 x 1200 mm			
Replace Header by Logo:	Page Layout			
Header:	Using Logo as Header reduce image printing area			
Footer:	DICOM Embedded Printer – Not for diagnostic use – Oki Data Corporation			
	Editing this original statement footer is full responsibility of the user.			
Border Density:	Olient O White O Black Olient O White O Black Olient O O O O O O O O O O O O O O O O O O O			
Empty Image Density:	Olient O White O Black			
Image Background:	White O Black			
Polarity:	Olient O Normal O Reverse			
Smoothing Filter:	Client Normal Sharp Sharp			
Smoothing Level:	🖲 Low 💿 Medium 💿 Strong			
	Image Adjustment			
Black & White Mode:	🖲 Standard 🔘 Fine 🔘 Ultrafine 🔘 CMYK Black			
Color Mode:	Standard O High Quality O Economy O Color Disable			
Contrast: (-128 to +128)	0.0			
Brightness: (-128 to +128)	0.0			
X Scale: (10 to 1000 %)	100.0			
Y Scale: (10 to 1000 %)	100.0			
X Offset: (-200 to 200 mm)	0.0			
Y Offset: (-200 to 200 mm)	0.0			
Black Gamma: (0.01 to 2.99)	1.0			
Cyan Gamma: (0.01 to 2.99)	1.0			
Magenta Gamma: (0.01 to 2.99)	1.0			
Yellow Gamma: (0.01 to 2.99)	1.0			
SAVE CANCEL				

SAVE CANCEL

HOME

(4) Edit the parameters to fulfill your requirements.

Example of customized menu with all options activated

OKI

Print SCP Setup Frame

	Print SCP AET Configuration			
AET Name: OKI				
Activate Max DICOM Log:				
Print Destination:	Local Remote1 Remote2			
Fint Destination.	WARNING you must define the remote IP-address in the ADMIN menu.			
	Paper (Use US Format Paper)			
Printer Tray:	🖲 Auto 🔿 Tray1 🔿 Tray2 🔿 Tray3 🔿 Tray4 🔿 Tray5 🛇 MPTray			
Copy:	CLIENT -			
Page Format:	Client O A4/Letter A3/Tabloid A3 Nobi 215 x 900 mm 215 x 1200 mm 297 x 900 mm 297 x 1200 mm 328 x 900 mm 328 x 1200 mm			
	Page Layout			
Footer:	DICOM Embedded Printer – Not for diagnostic use – Oki Data Corporation			
	Editing this original statement footer is full responsibility of the user.			
Booklet Print Mode:	WARNING You must refer to the manual for avoid any issue regarding this feature.			
Booklet on A3/Tabloid paper:				
Add a CD Page on Booklet:				
Border Density:	Olient O White O Black			
Empty Image Density:	Client O White O Black Standard Discussion Standard Standard Discussion Standa			
Image Background:	White O Black			
Polarity:	Iclient O Normal O Reverse			
Smoothing Filter:	🖲 Client 🔿 Normal 🔘 Sharp			
Smoothing Level:	🖲 Low 🗢 Medium 🔿 Strong			
Layout Format:	STANDARD¥2,4 -			
	Layout Format is only dedicated to the "Store to Print" functionality			
Dia da 2 Milita Mardar	Image Adjustment			
Black & White Mode:	Standard O Fine O Ultrafine O CMYK Black			
Color Mode:	🔘 Standard 🔘 High Quality 🖲 Economy 🔘 Color Disable			
Contrast: (-128 to +128)	0.0			
Brightness: (-128 to +128)	0.0			
X Scale: (10 to 1000 %)	100.0			
Y Scale: (10 to 1000 %)	100.0			
X Offset: (-200 to 200 mm)	0.0			
Y Offset: (-200 to 200 mm)	0.0			
Black Gamma: (0.01 to 2.99)	1.0			
Cyan Gamma: (0.01 to 2.99)	1.0			
Magenta Gamma: (0.01 to 2.99)	1.0			
Yellow Gamma: (0.01 to 2.99)	1.0			

SAVE CANCEL

HOME

(5) Save the edited settings.

When you have finished editing the values, click [SAVE].

SAVE	CANCEL
OT THE	CAROLL

Memo: Click [CANCEL] to undo your editing.

(6) Click [HOME] on the AET list screen to return to the home page.

OKI	
Print SCP Setup Frame	
Print SCP AET	
Current number of AET= 3 (Max. 25)	
<u>OKI</u>	X
NEW AET 1	X
NEW AET 2	X
Note: "OKI" AET is mandatory for the server to work properly. You can edit it as you wish, but if you delete it, it will be recreated after restarting the printer.	
ADD	
HOME	

1-4 Options for print rules on AETs (Table)

Here is presented the full set of options for print rules on AETs. Depending on the model you purchased, some options may not be available.

Options for [OKI on AETs/N AET Name Activate Max DICOM Log	-	C911 DICOM C911 DICOM C931 DICOM ES9411 DICOM ES9431 DICOM Pro9431 DICOM	Remarks Maximum 25 AETs.
Print Destination Print Destination Remote1 Remote2		х	For "Remote Print Mode". "Local" is for the printer itself. "Remote1" and" Remote2" are for remote standard printers to which DICOM Printer transfers images.
Use US format paper	ON/OFF (checkbox)	Х	For LETTER and TABLOID.
Printer Tray Auto Tray1 Tray2 ~ MPTray		Х	Auto Paper Size Selection.Tray1 is standard cassette tray.Tray2 (and later) are optional tray(s).Standard Multi-Purpose Tray (banner print).
Сору	Client	х	To use Print SCU's (sender's) indication.
	1 ~ 10 Client	Х	To use Print SCU's (sender's) indication.
	A4 or Letter A3 or Tabloid	X X	Standard paper of OKI Printer.
	A3 Nobi	Х	
	215 x 900 mm	Х	
Page Format	215 x 1200 mm	Х	
	297 x 900 mm	Х	Banner paper for banner print.
	297 x 1200 mm	Х	Note: Only "Black & White Mode" is
	328 x 900 mm	Х	available for banner print.
	328 x 1200 mm	Х	
Replace Header by Logo	ON/OFF (checkbox)	Х	Please refer to "Graphic Elements Creation Manual for DICOM Embedded Printer".
Header	[text box]	Х	Text header.
Footer	[text box]	Х	Text footer. Default message is a caution.
Booklet Print Mode	ON/OFF (checkbox)	Х	
	Booklet on A3/Tabloid	Х	
	Add a CD page	Х	
Border Density	Client White Black	Х	To use Print SCU's (sender's) indication.
Empty Image Density	Client White Black	Х	To use Print SCU's (sender's) indication.

Options for [OKI] print rules on AETs/Models		C911 DICOM C931 DICOM ES9411 DICOM ES9431 DICOM Pro9431 DICOM	Remarks
Image Background	White Black	х	
	Client		To use Print SCU's (sender's) indication.
Polarity	Normal	X	
	Reverse		
	Client		To use Print SCU's (sender's) indication.
Smoothing Filter	Normal	Х	
	Sharp		
	Low		
Smoothing Level	Medium	. Х	To adjust print quality of smoothing.
	Strong STANDARD\1,1		
	STANDARD\1,2		For "Store to Print Mode".
	STANDARD\2.2		
Lavout Format	STANDARD\2,3	Х	
Layout Format	STANDARD\2,4		
	STANDARD\3,3		
	STANDARD\3,4		
	STANDARD\4,4	X	Mainly for V Day (K topor only)
	Fine	X	Mainly for X-Ray (K toner only). Mainly for X-Ray (K toner only).
Black & White Mode	Ultrafine	X	Mainly for CT and MRI (K toner only).
	CMYK Black	X	Rich and Glossy black with CMYK toner.
	Standard	X	Balanced mode between quality and cost.
	High Quality	X	High quality with sufficient toner.
Color Mode	Economy	X	Good quality at the lowest toner cost.
	Color Disable	X	To prevent color print.
Contrast	-128 ~ +128	Х	To adjust contrast.
Brightness	-128 ~ +128	Х	To adjust brightness.
X Scale	10 ~ 1000 (%)	Х	
Y Scale	10 ~ 1000 (%)	Х	To enlarge/reduce print image.
X Offset	-200 ~ 200 (mm)	Х	To chift printed area of modical image
Y Offset	-200 ~ 200 (mm)	Х	To shift printed area of medical image.
Black Gamma	0.01 ~ 2.99	Х	
Cyan Gamma	0.01 ~ 2.99	Х	To adjust print quality with common values
Magenta Gamma	0.01 ~ 2.99	Х	To adjust print quality with gamma values.
Yellow Gamma	0.01 ~ 2.99	Х	

* Options in yellow rows are shown if the features are activated in ADMIN menu.
* Options in orange rows are shown if "Economy Mode" is not activated in ADMIN menu.

1-5 Options for [OKI] print rules on AETs (Description)

A number of rules can be added to the system. The maximum number of AETs is 25. The following information can be configured for each rule:

(1) AET Name:



AET is an abbreviation for Application Entity Title. The call method is assumed to be compliant with DICOM Print SCU Protocol.

The AETs defined in this rule have a maximum length of 16 characters (a - z, A - Z, 0 - 9).

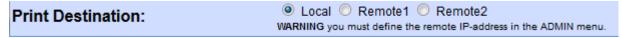
- Note: The names are case-sensitive.
 - In the event of an error or if a name is not present, the printer will use the default setting.

(2) Activate Max DICOM Log:

Activate Max DICOM Log:

Check this box if you want DICOM Embedded Printer to report all details of DICOM exchange. This is useful in case of trouble.

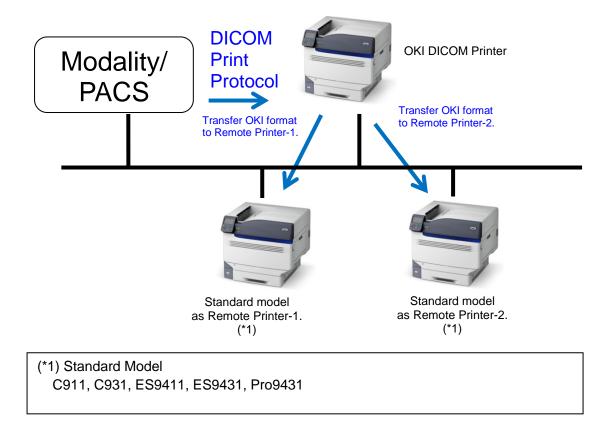
(3) Print Destination:



Select if you want to print locally or to a remote standard printer.

Note: • You must define the remote printers in ADMIN menu.

• To avoid any quality issue on print out, you must use the indicated standard printer family on the following diagrams.



(4) Use US format paper:

Paper (Use US Format Paper)

Check this box if you want DICOM Embedded Printer to print in Letter/Tabloid size.

(5) Printer Tray:

- Auto: Allows DICOM Embedded Printer to select the suitable tray up to the needed size.
- Tray#: Forces the printer to use the selected tray regardless of the needed format. This is useful when paper of different quality is loaded in the different trays.

(6) Copy:

Сору:	CLIENT
	1
	2
	3
	4
	5
	6
	7
	8
	9
	10

Client: Lets the modality ask for the desired number of copies.

1 to 10: Overrides the modality value and always outputs the desired value.

(7) Page Format:

Page Format:	◎ Client [©] A4/Letter [©] A3/Tabloid [©] A3 Nobi [©] 215 x 900 mm [©] 215 x 1200 mm
	💿 297 x 900 mm 💿 297 x 1200 mm 💿 328 x 900 mm 💿 328 x 1200 mm

If the printer supports different paper formats, you can force the printout into the format you wish. In [**Client**] mode, the printout will be resized to the nearest paper size. Refer to DCS (DICOM Conformance Statement) for more details.

(8) Replace Header by Logo:

Replace Header by Logo:

Using Logo as Header reduce image printing area

This function is used to customize the header of your printouts.

This function allows free creation. Refer to "Graphic Elements Creation Manual for DICOM Embedded Printer".

WARNING:

- This function disables the Header in text mode function.
- This function is deactivated when "Booklet Print Mode" is activated.

(9) Header:

Header:

This function is used to quickly customize the header of your printouts. (When "Replace Header by Logo" or "Booklet Print Mode" is not activated.)

This customization is limited to one line of text only. Typeface is Courier at 18 points size, available length is the width of the page minus 10mm. (For example, 52 characters for A4 of which width is 210 mm.)

(10) Footer:

Footer:

DICOM Embedded Printer - Not for diagnostic use - Oki Data Corporation

This function allows editing the original statement of the footer.

This customization is limited to one line of text only. Typeface is Courier at 6 points size, it is possible to edit font size in ADMIN menu, and the available length is the width of the page minus 10mm.

WARNING: Editing this original statement footer is full responsibility of the user.

(11) Booklet Print Mode:

Booklet Print Mode:	✓	WARNING You must refer to the manual for avoid any issue regarding this feature.
Booklet on A3/Tabloid paper:		
Add a CD Page on Booklet:		

When "Booklet Print Mode" is enabled, the printer equipped with a duplex unit will add a cover page and a back page to your job, and then print all pages in a booklet. 16 pages (4 sheets) is the maximum number, as Booklet Print.

- Note: Once this mode is enabled, the maximum of simultaneous DICOM print association is set to 1.
 - When "Booklet Print Mode" is enabled, "Header" function is not available.

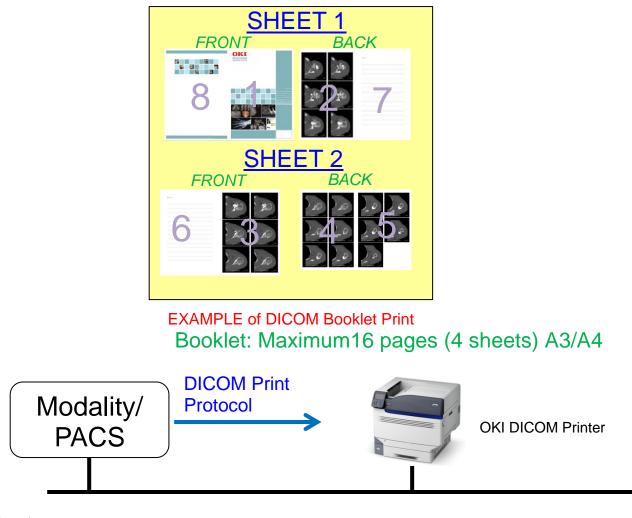
"Booklet on A3/Tabloid paper" will print on A3/Tabloid paper.

"Add a CD Page on Booklet" will insert a page to stick a CD holder. This page is the first one just after the cover page.

WARNING:

- Booklets will be produced on A4/Letter paper whatever format you ask for on the modality.
- If your printer supports A3/Tabloid and you activate the selection, all booklets will be printed on A3/Tabloid paper.
- YOU NEED TO HAVE ONE TRAY CONFIGURED WITH THE DESIRED PAPER FORMAT. If not, the printout will be discarded WITHOUT WARNING.

To customize the cover page and the back page of your booklets, please refer to "Graphic Elements Creation Manual for DICOM Embedded Printer".

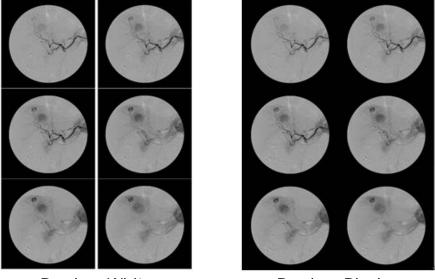


(12) Border Density

Border Density:	🖲 Client 🔘 White 🔘 Black
-----------------	--------------------------

This function is used to define the border images to black or white.

[Client]: Manages the settings from the DICOM console.



Border: White

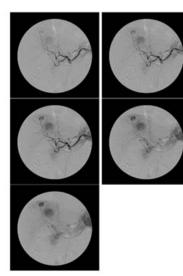
Border: Black

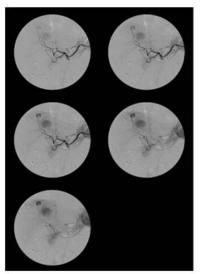
(13) Empty Image Density:

Empty Image Density:

Client O White O Black

This function is used to define an image-free zone in black or white. [**Client**]: Manages the settings from the DICOM console.





Empty Image: Black

Empty Image: White

(14) Image Background:

Image Background:

🖲 White 🔘 Black

This function is used to define the background of the image zone in black or white and adds a thin line to define the image area. The choices are [White] and [Black].



Background Density: White



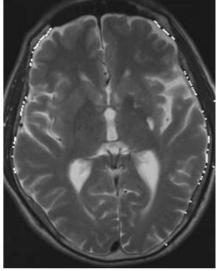
Background Density: Black

(15) Polarity:

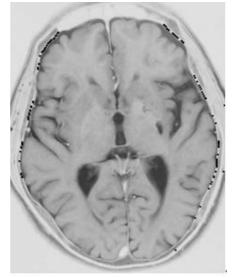
Polarity:

```
Olient O Normal O Reverse
```

Select [**Normal**] or [**Reverse**] mode to print images in positive or negative. [**Client**]: Manages the settings from the DICOM console.



Normal



Reverse

(16) Smoothing Filter:

Smoothing Filter:

Olient O Normal O Sharp

This function is used to define the aspect rendering of the printed image. The choices are [**Client**], [**Normal**] and [**Sharp**]. As default, [**Client**] is selected.

[Client]: Manages the settings from the DICOM console.

[Normal]: Normal mode.

[**Sharp**]: Forces the use of the image sharpening filter (which only works on monochrome images).

(17) Smoothing Level:

Smoothing Level:

Low
Medium
Strong

This function is used to define the level of action of the filter. The choices are **[Low]**, **[Medium]** and **[Strong]**. As default, **[Low]** is selected.



Low



Medium

(18) Layout Format:

Layout Format:	STANDARD\1,1 STANDARD\1,2 STANDARD\2,2 STANDARD\2,3 STANDARD\2,4 STANDARD\3,3 STANDARD\3,4
	STANDARD\3,4 STANDARD\4,4

If you use DICOM Store Protocol from your modality to print to DICOM Embedded Printer, you need to define the layout for the images to be printed on the paper.

WARNING:

DICOM Store Protocol supported for printing is restricted to images from Ultrasound, Eye Care and Endoscopic modalities.

(19) Black & White Mode:

ack & White Mode:	○ Standard ● Fine ○ Ultrafine ○ CMYk	(Black
-------------------	--------------------------------------	---------

This function is used to define the level of action of the filter.

The choices are [Standard], [Fine], [Ultrafine] and [CMYK Black]. As default, [Standard] is selected.

[Standard]: Defines printing monochrome images in pure black.

- [Fine]: Defines printing monochrome images in pure black with more detailed images.
- [**Ultrafine**]: Defines printing monochrome images in pure black with high detailed images.
- [CMYK Black]: Defines printing monochrome images in Composite black (CMYK). When "Economy" is selected in "Color Mode", the image is printed with only black toner.

(20) Color Mode:

This function is used to define the level of action of the filter.

The choices are [Standard], [High Quality], [Economy] and [Color Disable]. As default, [Standard] is selected.

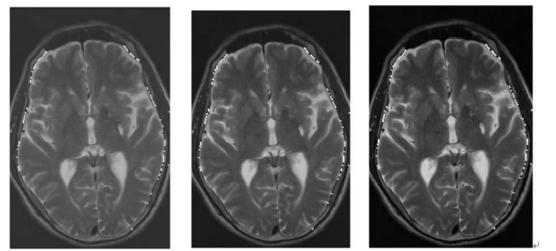
- [Standard]: Defines printing color images in color (CMYK) with average usage of toner.
- [High Quality]: Defines printing color images in high color quality (CMYK).
- [Economy]: Defines printing color images in color (CMYK) with low usage of toner.
- [Color Disable]: Disables Color DICOM Print Protocol so that the AET will only support Monochrome DICOM Print Protocol.

(21) Contrast:

Contrast: (-128 to +128)

0.0

This function is used to change the level of contrast of the printouts. The choices are from [-128] to [+128]. Negative values reduce contrast to flatten the image, 0 doesn't change the level of contrast, and positive values increase contrast to enhance the image.



Contrast: -10

Contrast: 0

Contrast: +10

(22) Brightness:

Brightness: (-128 to +128) 0.0

This function is used to change the level of brightness of the printouts. The choices are from [-128] to [+128]. Negative values reduce light to darken the image, 0 doesn't change the level of brightness, and positive values increase light to lighten the image.



Brightness: -20

Brightness: 0

Brightness: +20

(23) X Scale:

X Scale: (10 to 1000 %) 100.0

This function is used to define the level of zoom for X from 10 % to 1000%, values less than 100% reduce size for X, and values more than 100% enlarge size for X.

As default, [100.0] is selected.

(24) Y Scale:

Y Scale: (10 to 1000 %) 100.0

This function is used to define the level of zoom for Y from 10 % to 1000%, values less than 100% reduce size for Y, and values more than 100% enlarge size for Y.

As default, [100.0] is selected.

(25) X Offset:

X Offset: (-200 to 200 mm) 0.0

This function is used to define the level of offset for X in millimeter, negative values do offset to the left, and positive values do offset to the right.

The range is from -200(mm) to 200(mm). As default, [0.0] is selected.

(26) Y Offset:

Y Offset: (-200 to 200 mm) 0.0

This function is used to define the level of offset for Y in millimeter, negative values do offset down, and positive values do offset up.

The range is from -200(mm) to 200(mm). As default, [0.0] is selected.

(27) Black Gamma:

Black Gamma: (0.01 to 2.99) 1.0

This function is used to adjust the gamma for Black, when grey images are printed in pure black. Values can be within a range from 0.01 to 2.99, in increments of 0.01. Values below 1.00 will lighten the Black component of the image, and values above 1.00 will darken it.

(28) Cyan Gamma:

Cyan Gamma: (0.01 to 2.99)	1.0

This function is used to adjust the gamma for Cyan. Values can be within a range from 0.01 to 2.99, in increments of 0.01. Values below 1.00 will lighten the Cyan component of the image, and values above 1.00 will darken it.

(29) Magenta Gamma:

```
Magenta Gamma: (0.01 to 2.99) 1.0
```

This function is used to adjust the gamma for Magenta. Values can be within a range from 0.01 to 2.99, in increments of 0.01. Values below 1.00 will lighten the Magenta component of the image, and values above 1.00 will darken it.

(30) Yellow Gamma:

Yellow Gamma: (0.01 to 2.99) 1.0

This function is used to adjust the gamma for Yellow. Values can be within a range from 0.01 to 2.99, in increments of 0.01. Values below 1.00 will lighten the Yellow component of the image, and values above 1.00 will darken it.

Make appropriate settings for test printing.

1-6 Customize ADMIN menu

(1) Click [ADMIN] on DICOM Embedded Printer home page.

OKI	
Print SCP Main Frame	
	SETUP
	ADMIN
	CONFIG
	LOG

(2) The Admin Setup Login page is displayed. Enter the OKI Administrator password and Click [LOGIN]. To edit or change the password, please refer to the printer manual.

OKI		
Admin Setup Login		
Print SCP Admin Configuration		
Password	•••••	
LOGIN		
НОМЕ		

Return to the home page by clicking [HOME].

(3) The Print SCP Admin Frame page is displayed. This will give you a summary of all options.

OKI	
Print SCP Admin Frame	
Admin Setup	
Activate Economy Mode	WARNING when "Activate Economy Mode" is enabled, it remove the possibility to use "Remote Print Mode" and force the printer to use "Economy Mode".
Activate Max DICOM Log Mode	V
Activate DICOM Store to Print Mode	WARNING to avoid any issue regarding the DICOM Store to Print Mode, you must please refer to the manual.
Activate Booklet Print Mode	WARNING to avoid any issue regarding the Booklet Print Mode, you must please refer to the manual.
Activate Remote Print Mode	WARNING to avoid any issue regarding the Remote Print Mode, you must use this feature only with OKI C911, Pro9431, Pro9541 or Pro9542 Standard Printers, and please refer to the manual.
Remote Printer 1 Remote Printer 2	127.0.0.1 127.0.0.1
Footer Font Size (2 to 24)	6
SAVE CANCEL	
HOME	

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(4) Save the edited settings.

When you have finished editing the values, save the settings by clicking [**SAVE**].

SAVE	CANCEL
------	--------

Memo: Click [CANCEL] to restore to the last saved settings.

1-7 ADMIN menu (Description)

(1) Activate Economy Mode

Activate Economy Mode	
	WARNING when "Activate Economy Mode" is enabled, it remove the possibility to use "Remote Print Mode" and force the printer to use "Economy Mode".

This function is used to define the level of features of the printer. When "Active Economy Mode" is enabled, the items in ovals in the following descriptions are disabled in AET setup options.

Activate Economy Mode: OFF

(When "Remote Print Mode" is activated.)

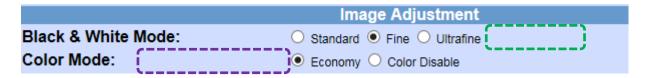
[AET Setup Menu]

	Print SCP AET Configuration
Activate Max DICOM Log:	
Print Destination:	Local O Remote1 O Remote2 WARNING you must define the remote IP-address in the ADMIN menu.
	Image Adjustment
Black & White Mode:	◯ Standard ● Fine ◯ Ultrafine ◯ CMYK Black
Color Mode:	Standard High Quality Color Disable

Activate Economy Mode: ON [AET Setup Menu]

	Print SCP AET Configuration
	АЕТ Name: ОКІ
Activate Max DICOM Log:	

"Print Destinations" is removed from AET Setup Menu.



"Black & White Mode" provides B/W print with only K toner in AET Setup Menu. "Color Mode" provides only "Economy Mode" in AET Setup Menu.

WARNING: When you activate "Economy Mode", all AETs will be deleted.

(2) Activate Max DICOM Log Mode

Activate Max DICOM Log Mode 🗵

This function is used to define whether to show or hide [Activate Max DICOM Log Mode] in the AET Print rules. As default, the setting is enabled.

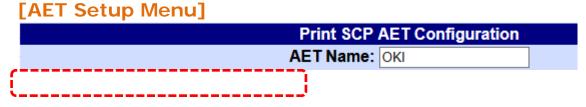
Configuration

Activate Max DICOM Log Mode: ON

	[AET Setup Menu]
Print SCP AE	
AET Name: OF	

Activate Max DICOM Log:

Activate Max DICOM Log Mode: OFF



"Activate Max DICOM Log" is removed from AET Setup Menu.

(3) Activate DICOM Store to Print Mode

Activate DICOM Store to Print Mode	
	WARNING to avoid any issue regarding the DICOM Store to Print Mode, you must please refer to the manual.

This function is used to define whether to show or hide [Layout Format] in the AET Print rules, and gives the possibility to the printer to support DICOM Store Protocol to print images. As default, the setting is disabled.

Activate DICOM Store to Print Mode: ON [AET Setup Menu] Layout Format STANDARDV1,1 STANDARDV2,2 STANDARDV2,4 STANDARDV2,4 STANDARDV3,3 STANDARDV3,4 STANDARDV4,4 dedicated to the "Store to Print"

This function defines the layout in use of Store to Print Protocol.

Activate DICOM Store to Print Mode: OFF [AET Setup Menu]

"Layout Format" is removed from AET Setup Menu.

Note:

• Only Echography, Ophthalmic and Endoscopy images are supported in DICOM Store Protocol. Details of supported classes are as follows.

1.2.840.10008.5.1.4.1.1.6 UltrasoundImage Storage SOP Class (old version)

1.2.840.10008.5.1.4.1.1.6.1 UltrasoundImage Storage SOP Class

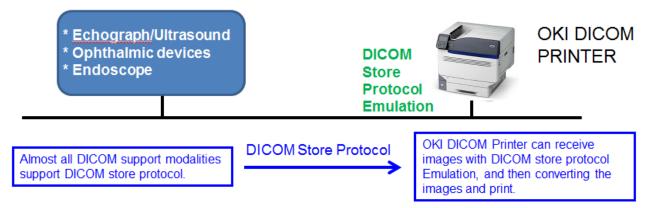
1.2.840.10008.5.1.4.1.1.7 Secondary Capture Image Storage SOP Class

1.2.840.10008.5.1.4.1.1.77.1.1 Endoscopic Image Storage SOP Class

1.2.840.10008.5.1.4.1.1.77.1.4 Photographic Image Storage SOP Class

1.2.840.10008.5.1.4.1.1.77.1.5.1 Ophthalmic Photography 8-Bit Image Storage SOP Class

• The layout is "Portrait" except for Standard\1,1, Standard\2,2, Standard\3,3 and Standard\4,4 which print images in "Landscape".



(4) Activate Booklet Print Mode

Activate Booklet Print Mode WARNING to avoid any issue regarding the Booklet Print Mode, you must please refer to the manual.

This function is used to define whether to show or hide [Activate Booklet **Print Mode**] in the AET print rules, and gives the possibility to the printer to print images in a booklet.

As default, this setting is disabled.

- Note: To avoid any issue regarding printing in booklet, you must use this feature only with the printer equipped with a duplex unit.
 - It is for demo purpose only. No support will be provided by OKI.

Activate Booklet Print Mode: ON [AET Setup Menu]

Booklet Print Mode
WARNING to avoid any issue regarding this feature, you must refer to the manual.

Activate Booklet Print Mode: OFF

[AET Setup Menu]

"Booklet Print Mode" is removed from AET Setup Menu.

(5) Activate Remote Print Mode

Activate Remote Print Mode	
	WARNING to avoid any issue regarding the Remote Print Mode, you must use this feature only with OKI C610 or C711 Standard Printers, and please refer to the manual.

This function is used to define whether to show or hide [**Print Destination**] in the AET print rules, and gives the possibility to the printer to send jobs to a remote standard OKI printer. As default, the setting is disabled.

- Note: To avoid any issue regarding remote printing, you must only use this feature with the same standard OKI printers model as the DICOM one.
 - It is for demo purpose only. No support will be provided by OKI.

(5-1) Remote Printer 1

Remote Printer 1

127.0.0.1

Enter the IP address of the 1st remote standard OKI printer. As default, the setting is [**127.0.0.1**].

Note: To avoid any issue regarding remote printing, you must only use this feature with the same standard OKI printer model as the DICOM one.

(5-2) Remote Printer 2

Remote Printer 2	127.0.0.1
------------------	-----------

Enter the IP address of the 2nd remote standard OKI printer. As default, the setting is [**127.0.0.1**].

Note: To avoid any issue regarding remote printing, you must only use this feature with the same standard OKI printer model as the DICOM one.

Activate Remote Print Mode: ON [AET Setup Menu]

Print Destination:	🖲 Local 🔘 Remote1 🔘 Remote2
	WARNING you must define the remote IP-address in the ADMIN menu.

Select if you want to print locally or to a remote standard printer.

Note: • You must define the remote printers in ADMIN menu.

• To avoid any quality issue on print out, you must use the indicated standard printer family.

Activate Remote Print Mode: OFF [AET Setup Menu]

"Print Destination" is removed from AET Setup Menu.

(6) Footer Font Size

Footer Font Size (2 to 24)

This function is used to define the Footer font size for all AETs. As default, the setting is [6].

6

2. Related Settings

2-1 CONFIG menu

(1) Click [CONFIG] on DICOM Embedded Printer home page.

OKI	
Print SCP Main Frame	
	SETUP
	ADMIN
	CONFIG
	LOG

The Print SCP Config Frame page is displayed. This will give you a summary of all information.

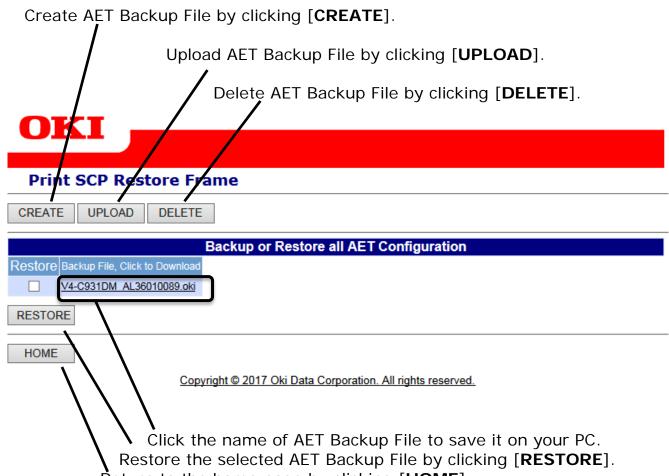


Print SCP Config Frame

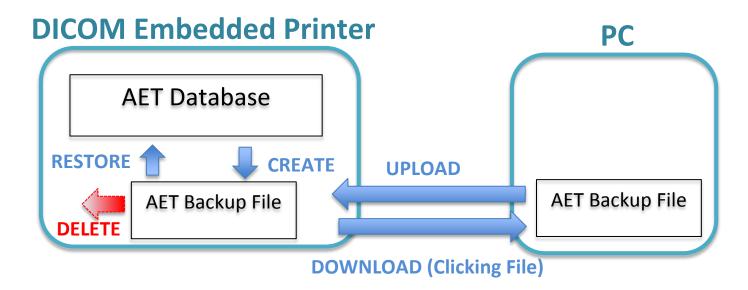
Print SCP Config Fra	me
Printer Name Printer Manufacturer Printer Model Server Version	OKI DM PRINTER Oki Data Corp C931 DICOM SE1-V4.00
Input DICOM Port Default AET (used if wrong AET called)	11112 OKI
IMPORTANT Note : A default AET is mandatory for the server to work properly. You can edit it as you wish, but if you delete it, it will be recreated with the name "OKI" after you exit this windows.	
Backup or Restore all AET Co	nfiguration
HOME	

2-2 BACKUP menu

(1) Click [**BACKUP**] on the Print SCP Config Frame page. The BACKUP page is displayed.



Return to the home page by clicking [HOME].



2-2-1 Create & Download AET Backup File from Printer to PC

(1) Click [**BACKUP**] on the Print SCP Config Frame page.

inter Name	OKI DM PRINTER
nter Manufacturer	Oki Data Corp
nter Model	C931 DICOM
rver Version	SE1-V4.00
ut DICOM Port	11112
fault AET (used if wrong AET called)	OKI
k properly. You can edit it as you wish, but if yo	u delete it, it
DRTANT Note : A default AET is mandatory for k properly. You can edit it as you wish, but if yo e recreated with the name "OKI" after you exit	u delete it, it this windows.
k properly. You can edit it as you wish, but if yo e recreated with the name "OKI" after you exit Backup or Restor	u delete it, it
k properly. You can edit it as you wish, but if yo e recreated with the name "OKI" after you exit Backup or Restor	u delete it, it this windows.
k properly. You can edit it as you wish, but if yo e recreated with the name "OKI" after you exit	u delete it, it this windows.

OKI
Print SCP Restore Frame
CREATE UPLOAD DELETE
Backup or Restore all AET Configuration
Restore Backup File, Click to Download
RESTORE
HOME



OKI	
Print SCP Resto	re Frame
Backup file has been s	successfully created.
ТОР	
HOME	Copyright © 2017 Oki Data Corporation. All rights reserved.

(4) You will see the created file named like: "Printer model + serial number +.oki". Click the name of the created AET Backup File. You can download the AET Backup File into your PC.

OKI
Print SCP Restore Frame
CREATE UPLOAD DELETE
Backup or Restore all AET Configuration
Restore Backup File, Click to Download V4-C931DM_AL36010089.oki RESTORE
HOME Copyright © 2017 Oki Data Corporation, All rights reserved.

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2-2-2 Upload AET Backup File from PC to Printer

(1) Click [BACKUP] on the Print SCP Config Frame page.

OKI	
Print SCP Config Frame	
Print SCP C	onfig Frame
Printer Name Printer Manufacturer Printer Model Server Version	OKI DM PRINTER Oki Data Corp C931 DICOM SE1-V4.00
Input DICOM Port Default AET (used if wrong AET called) IMPORTANT Note : A default AET is mandatory for the	IIII12 OKI
work properly. You can edit it as you wish, but if you d will be recreated with the name "OKI" after you exit this	lelete it, it
BACKUP	II AET Configuration
HOME Copyright © 2017 Oki Data Cor	poration. All rights reserved.

(2) Click [UPLOAD].

OKI
Print SCP Restore Frame
CREATE UPLOAD DELETE
Backup or Restore all AET Configuration
Restore Backup File, Click to Download
RESTORE
HOME

(3) Click [Browse...] and select a saved AET Backup File.

OKI
Print SCP Upload File Frame
Please select the file that you would like to upload.
Browse
UPLOAD
HOME
Copyright © 2017 Oki Data Corporation. All rights reserved.

(4) Click [UPLOAD] to upload the selected AET Backup File.

OKI
Print SCP Upload File Frame
Please select the file that you would like to upload.
C:\Users\patrickr\Desktop\V4-C831DM_1007.oki Browse
UPLOAD
HOME
Copyright © 2017 Oki Data Corporation. All rights reserved.
INPORTANT. You can use only files from the same printer family. Any wron

IMPORTANT: You can use only files from the same printer family. Any wrong file is deleted during restoration.

(5) Click [TOP].



(6) The AET Backup File is now in the frame.

OKI
Print SCP Restore Frame
CREATE UPLOAD DELETE
Backup or Restore all AET Configuration
Restore Backup File, Click to Download
Restore Backup File, Click to Download
V4-C931DM AL36010089.0ki

2-2-3 Restore AET data from AET Backup File to AET database

(1) Click [**BACKUP**] on the Print SCP Config Frame page.

OKI	
Print SCP Config Frame	
Print SCP Config Fr	ame
Printer Name Printer Manufacturer Printer Model Server Version	OKI DM PRINTER Oki Data Corp C931 DICOM SE1-V4.00
Input DICOM Port Default AET (used if wrong AET called)	л 11112 ОКІ
IMPORTANT Note : A default AET is mandatory for the server work properly. You can edit it as you wish, but if you delete it, i will be recreated with the name "OKI" after you exit this window	it
Backup or Restore all AET C	Configuration
HOME	
Copyright © 2017 Oki Data Corporation. A	All rights reserved.

(2) Select the AET Backup File by clicking on the checkbox at the left of the file. Then click [RESTORE] to reload the saved settings.

OKI
Print SCP Restore Frame
CREATE UPLOAD DELETE
Backup or Restore all AET Configuration
Restore Backup File, Click to Download
V4-C931DM AL36010089.oki
RESTORE
HOME

(3) When the saved settings have been reloaded, the screen displays the following.



H	2	VI.	

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WARNING: In case of wrong AET Backup File, you will see the following message.

oki Print SCP Restore Frame Error, Wrong File model, the file V4-C831DM_1007.oki has been deleted.

HOME

2-2-4 Delete AET Backup File from Printer

(1) Click [BACKUP] on the Print SCP Config Frame page.

OKI	
Print SCP Config Frame	
Print SCP C	Config Frame
Printer Name Printer Manufacturer Printer Model Server Version	OKI DM PRINTER Oki Data Corp C931 DICOM SE1-V4.00
Input DICOM Port Default AET (used if wrong AET called)	11112 OKI
IMPORTANT Note : A default AET is mandatory for the server to work properly. You can edit it as you wish, but if you delete it, it will be recreated with the name "OKI" after you exit this windows.	
Backup or Restore a	all AET Configuration
HOME <u>Copyright © 2017 Oki Data Co</u>	rporation. All rights reserved.
2) Click [DELETE].	
OKI	
Print SCP Restore Frame	
CREATE UPLOAD DELETE	
Backup or Restore Restore Backup File, Click to Download V4-C931DM_AL36010089.oki	all AET Configuration
RESTORE	

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HOME

(3) Select the AET Backup File to delete by clicking on the checkbox at the left of the file. Then Click [DELETE].

OKI
Print SCP Delete File Frame
File V4-C931DM_AL36010089.oki has been deleted.
ТОР
HOME
Copyright © 2017 Oki Data Corporation. All rights reserved.

(4) When the selected AET Backup File has been deleted, the screen displays the following.

OKI
Print SCP Delete Files Frame
Delete Filename V4-C931DM_AL36010089.oki
HOME

3. LOG menu (DICOM Protocol)

(1) Click [LOG] on DICOM Embedded Printer home page.

OKI	
Print SCP Main Frame	
	SETUP
	ADMIN
	CONFIG
	LOG

(2) The log menu is displayed.

OKI
Print SCP Log Frame
art initialization COM Print SCP Version 4.00 Build on October 2016 arting DICOM Print server COM Print server STARTED on Port: 11112 art the PSLoop ItializationInvoker#NOMAL MODE inter Service Max License>100 rvice ser Exist
HOME

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This page lists the DICOM dialogue logs during printing. This is useful for identifying the source of an error in the event of problems.

4. How to print the test patterns

The test patterns are designed to help you to troubleshoot your printer consumables quality.

- (1) Select [**Print Information**] on the printer control panel.
- (2) Select [Demo Page].
- (3) Select [CMY test] to check the color imaging units or [K test] for the black imaging unit.
- (4) The test pattern is printed.

5. Troubleshooting

The following procedures are performed in accordance with the Setup Guide/User's Guide/Network Guide supplied on CD/DVD with the printer.

When the printer panel displayed "Power Off/On 002 \sim 005:Error, please do the following action.

- 1) Turn OFF the printer power supply.
- 2) Take OFF the Built-in HDD from the printer.
- 3) Turn ON the printer power supply.
- 4) Update the printer firmware, using "Firmware Update Tool". Example: http://global.okiprintingsolutions.com/FWInterface.nsf/frmMain?OpenForm&Seq=

1&Lang=en#_RefreshKW_SBUList

- 5) Turn OFF the printer power supply.
- 6) Mount the Built-in HDD into the printer.
- 7) Turn ON the printer power supply.