

FUJIFILM ENGINEERING CHANGE NOTICE (FIELD CHANGE NOTICE)

SUBJECT: Releasing the information of DR-ID300CL Application Software V8.1
 (for Software licence unsupported version)

Design Change Reason	Action	Time frame
<input checked="" type="checkbox"/> Product Improvement (*1)	<input type="checkbox"/> Mandatory	<input type="checkbox"/> Immediately
<input type="checkbox"/> Process Improvement	<input checked="" type="checkbox"/> Recommended (*2)	(by)
<input type="checkbox"/> Serviceability	<input checked="" type="checkbox"/> Not required (Information only) (*1)	<input checked="" type="checkbox"/> Next maintenance (*2)
<input type="checkbox"/> Part Replacement	<input type="checkbox"/> Other ()	<input checked="" type="checkbox"/> Upon failure
<input checked="" type="checkbox"/> Corrective Action(*2)		<input type="checkbox"/> At your convenience
<input type="checkbox"/> Preventive Action		<input checked="" type="checkbox"/> Not Applicable (*1)
<input type="checkbox"/> Regulatory Compliance		<input type="checkbox"/> Other()
<input type="checkbox"/> Other ()		

*1 corresponds to the New Function/Enhancement below whereas *2 to the Error Corrections.

DATE: Apr, 07, 2015 Dept.: Quality Assurance Div. Medical Systems Business Div.

ORIGINATOR: K. Hayashi EDITED BY: Y.Baba APPROVED BY: Y. Koyanagi

AFFECTED PRODUCTS: DR-ID300CL

TOTAL PAGE (S): 66 ATTACHMENT: YES NO

RELATED INFORMATION: None

DESCRIPTION OF CHANGE:

CL Application V8.1 for DR-ID300CL, including new functions and error corrections, is ready to be released.

New Functions/Enhancement

1. Measurement (Distance, Angle)
2. Graphical Menu Option
3. Copy Image, etc.

Error Corrections

1. When images are re-sent after technologist name has been changed, only the first in-Study image is sent to PACS.
2. Hang-up occurs when marker is used on Study screen..
3. Pre-image display sometimes takes time.
4. The relative sensitivity value becomes extremely low when "mis-exposure" is used during QC reading, etc.

 - APPLICABLE TO (Serial Nos. etc.) : DR-ID300CL Software V5.0/V6.0/V6.1/V6.2/V7.0/V7.1/V7.2/V7.3/V7.4/V8.0(included HF)

- ESTIMATED WORK TIME: 0.0 HOURS

- SPECIAL TOOLS / INSTRUMENTS: YES NO (⚠ Application software and tool is not attached to this Rev.1 or later.)

- SUPPLY OF THE ARTICLES: YES NO

IF YES, WHEN: At the same time with this ECN

NAME / CODE: DR-ID 300CL Application Software V8.1 / 114Y2150001B10 (DVD)
 DR-ID 300CL PPU Application Software V2.1 / 114Y2150204B04.zip *1

QUANTITY: 1set of 1DVD *1: Download from SIAS

- RETURN OF THE REPLACED PARTS TO FUJI: YES NO

The contents described or shown in our ECN documents and/or any information provided from FUJIFILM in verbal or written communication is intended for the addressee and/or its organization. Transfer and/or copy distribution of the information without written consent of FUJIFILM is not permitted.

DOCUMENTS AFFECTED: YES NO

AFFECTED DOCUMENTS	CURRENT		NEW	
	REV	ISSUED DATE	REV	ISSUED DATE

DETAILS:

See the attachment for details.

- NOTE

1) Important information about SUPPLY OF THE ARTICLES:

Charge:

- FREE OF CHARGE UNTIL (mmddyyyy): __
- WITH YOUR CHARGE
- NOT APPLICABLE

Releasing the Information of DR-ID 300CL Application Software V8.1

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1. Released items

■ DR-ID 300CL

Product names	Parts number	Media	Number of media
DR-ID 300CL Application Software V8.1	114Y2150001B10	CD	1
DR-ID 300CL Standard KIT V8.1	114Y2150003B10	CD	1
DR-ID 300CL Standard KIT (Lite) V8.1	114Y2150004B10	CD	1
DR-ID 300CL Standard KIT (Mobile) V8.1	114Y2150006B08	CD	1
DR-ID 300CL V8.1 Reference Guide 13th Edition	114Y2150052B11	CD	1
DR-ID 300CL PPU Application Software V2.1	114Y2150204B04	CD	1
DR-ID 300CL Menu Import Export Tool V6.8	114Y2150765B08	CD	1

<Reference> The operation of Console has been confirmed by using the following software.

■ Anti-virus software version

No.	Software name	Maker	Ver.	Remark
1	Antivirus Workstation	F Secure	V11.0	Japanese
2	Virus buster cooperate edition Plus	TRENDMICRO	V10.6 SP2	Japanese
3	Symantec End Point Protection	Symantec	V12.1	English

■ Monitor quality control software version

No.	Software name	Maker	Ver.	Remark
1	RadiCS	EIZO	V4.3.1	Japanese

2. Mainly Extended/Improved Functions

*●: Standard function, ○: Option function, -: Not applicable

No	Developed Item	Description	Installed Function(*)			Appendix-A for Reference
			Standard	Lite	Mobile	
1	Measurement (distance, angle)	Distance between two points and angle created by two lines can be measured on the image.	●	●	●	Chapter 1
2	Graphical menu options	Exposure area can be selected from an abstract illustration of human body.	●	●	●	Chapter 2
3	Free Layout Print function during Study	Free Layout Print function can be performed during Study.	○ *1	○ *1	-	Chapter 3
4	User (technologist) switching by barcode reading	Technologist can be switched without starting the "Switch the user" dialog box from the top-right menu of Console screen but rather only by reading the barcode.	●	●	●	Chapter 4
5	Pantomography top alignment format	3 top alignment formats for pantomography images (15cm x 30cm) have been added.	○ *1	○ *1	○ *1	Chapter 5
6	Changing the Radiation field with Smart controller	The Radiation field can be changed with the Smart controller.	○ *1	○ *1	○ *1	Chapter 6
7	Copying images	Exposed image can be copied to a non-exposed menu.	●	●	●	Chapter 7
8	Applying Virtual Grid processing according to the grid condition	Virtual Grid function can be set ON/OFF per selector. Virtual Grid function can be turned OFF automatically according to the image analysis.	○ *1	○ *1	○ *1	Chapter 8
9	Connecting with IBA-designed Dose Area Product Meter (DAP)	Connection with IBA-designed DAP (KermaX plus) is available.	●	●	-	Chapter 9
10	Expansion of exposure result/mis-exposure log	Log output item has been added.	●	●	●	Chapter 10
11	D-EVOII small model connection	The connection with D-EVOII small model (2430C) is supported.	●	●	●	Chapter 11

*1: As it is an expansion in existing options, application of the exiting option key is necessary.

3. Correction of Errors Occurred in the Field

No	Content
1	<p>When images are re-sent after technologist name has been changed, only the first in-Study image is sent to PACS.</p> <p>[Cause] When V5.0 was implemented, technologist change became available per Study compared to previous "per image". But there was a flaw in the SOPInstanceUID numbering processing which resulted in new numbers only issued for option menus.</p> <p>[Countermeasure] Corrected the SOPInstanceUID so that new numbering is done per Study.</p>
2	<p>Hang-up occurs when marker is used on Study screen.</p> <p>[Cause] Memory region that is in the PC used for image display or image processing, opens in the cooperation application at a certain timing (decided by OS). This results in PC to be busy and Console application processing be halted temporarily.</p> <p>The application alive-check, one of the functions inside Console, is performed under the above condition. That is why operation is judged as abnormal and thus program is forced to shut-down.</p> <p>[Countermeasure] To avoid application to suddenly be busy, the cause to make PC under such condition (cause that is preventing memory open by OS) should be deleted and processing should be managed by OS memory control function.</p> <p>Correction has been made so that when upgrading the installer SQL Server2008 from SP1 to SP3, the MaxServerMemory of SQL Server is set to 256MB rather than the regulated Max value upon IIP installation.</p>
3	<p>Pre-image display sometimes takes time</p> <p>[Cause] It takes 16 or more seconds to access to DB. The reason is unknown.</p> <p>[Countermeasure] In order to enable analysis, correction has been made so that log output is performed when DB access time is prolonged.</p>
4	<p>The relative sensitivity value becomes extremely low when "mis-exposure" is used during QC reading</p> <p>[Cause] File name that is related to the mis-exposure specified menu becomes located at the very end when "mis-exposure" is performed. Therefore, the sequence of menus becomes inverted upon QC. (This occurs because the sequence changes not by menu but by image file name (routinexxx.yyy).) E.g.) SHAD./RELATIVE SENS. <- Subject mis-exposure 1 SHOT PHANTOM PLUS LAG 1 IMG (FOR MEASUREMENT PREP)</p>

	<p>LAG 2 IMG (FOR MEASUREMENT)</p> <p>SHAD./RELATIVE SENS. <-Generated due to mis-exposure (located at the end)</p> <p>[Countermeasure]</p> <p>Correction has been made so that the list sorted in the order of ImageNumber.</p>
5	<p>BR10001 error appears during MWM usage</p> <p>[Cause]</p> <p>Patient information linkage display fails to process and error appears when Length is 0 in the following patient info tag.</p> <p>(0010,21C0) PregnancyStatus</p> <p>(0011,XX30) Blood type(ABO)</p> <p>(0011,XX31) Blood type(Rh)</p> <p>(0011,1060) Outpatient/inpatient</p> <p>[Countermeasure]</p> <p>Correction has been made so that other patient info can be displayed on the patient info link display screen even when Length=0.</p>
6	<p>Disabling the startup recovery</p> <p>[Cause]</p> <p>See ECN "2014-E-0442 Releasing How to Restrain Startup Repair on Console PC" for further detail.</p> <p>[Countermeasure]</p> <p>Procedures described in the above ECN are now equipped in the installer so to be automatically applied upon version upgrade or new installation.</p>
7	<p>When abdomen SU is exposed after "Chest SIT" exposure, a message asking whether or not to recover appears on the pre-reading screen. When "OK" button is clicked, PC freezes.</p> <p>[Cause]</p> <p>Due to logic error in the exceptional processing, synchronization-waiting may occur leading to deadlock.</p> <p>[Countermeasure]</p> <p>Corrected the deadlock so that exceptional processing will not occur.</p>
8	<p>VG processing cannot be performed on existing MPM code even by setting VG in the newly created menu</p> <p>[Cause]</p> <p>Upon creating a new Menu B utilizing Menu A in User Utility, the image processing parameter of A is not inherited when MPM code already exists in B.</p> <p>As a result, if A has a VG parameter and B does not, VG parameter of B cannot be inherited. Thus VG processing cannot be performed in B.</p> <p>[Countermeasure]</p> <p>Correction has been made so that VG parameter becomes inherited from A (copy source) to B (copy destination) when all of the following conditions meet.</p> <ul style="list-style-type: none"> • VGP parameter exists in the MPM code of A (copy source) • VGP parameter exists in the MPM code of B (copy destination)
9	<p>AWS application does not start when WINDOWS is running</p> <p>[Cause]</p>

	<p>Usually, log is collected after the Console shuts down. However, in the event of abnormal shutdown owing to power off, etc. log is collected upon the next startup. Thus startup becomes suspended because log collection processing and output of cooperation application log (CooperManagerOp.log) overlaps.</p> <p>[Countermeasure]</p> <p>Different from AWS, DR-ID 300CL is designed to output only error log, without affecting the startup, even when log collection and log output processing of cooperation application overlap.</p> <p>Correction has been made not to output CooperManagerOp.log of the questioned cooperation application because it is not needed for analysis.</p> <p>Therefore, from V8.1 onward, procedures described in ECN “2014-E-0319 Releasing Measures for Avoiding Console Startup Failure caused by Cooperative Application” is not required.</p>
10	<p>There are some tables of which values all become transferred into default when export is performed with MenuImportExportTool.</p> <p>[Symptom]</p> <p>Under V7.4 or later environment, values in the MenuData.mdb-IrSizeAndPosition table all are transferred to default when MenuImportExportTool export is performed.</p> <p>[Cause]</p> <p>The export processing of IrSizeAndPosition table is branched off intricately per version. We did not take the above processing in consideration upon supporting V7.4.</p> <p>[Countermeasure]</p> <p>Correction has been made so that the value of IrSizeAndPosition table can be exported even in V7.4 or later.</p>
11	<p>Multi-language characters are corrupted on the User Utility technologist information setting screen.</p> <p>[Symptom]</p> <p>Chinese, Korean and Chinese Traditional characters in the User Utility technologist information setting screen of V7.3 or later are corrupted.</p> <p>[Cause]</p> <p>Function A which sets the font so that characters of each controller will not corrupt was too huge. Therefore, we separated the technologist information settings part from function A to B. But we forgot to change the call area from A to B.</p> <p>[Countermeasure]</p> <p>Performed font setting in the technologist information settings screen so that Chinese, Korean and Chinese Traditional characters do not corrupt anymore.</p>
12	<p>SOPInstanceUID overlap</p> <p>[Symptom]</p> <p>An image including identical SOPInstanceUIDs is created during Tomosynthesis reconstruction.</p> <p>[Cause]</p> <p>A unique value is created inside Console for CreateImageUID. This is because when calls are 255 or more within a second, a same value becomes generated.</p> <p>Since there are 7 calls per image, a same SOPInstanceUID becomes generated if 36 or more images are created within a second.</p>

	<p>[Countermeasure]</p> <p>Corrected the internal counter from 255 to 65535.</p>
13	<p>VGP ON/OFF display for exposure menus other than Chest/Abdomen</p> <p>[Symptom]</p> <p>Overlay is displayed as ON even when VG processing is not performed.</p> <p>[Cause]</p> <p>Overlay is specified to be displayed as ON when VGP setting in menu is ON.</p> <p>[Countermeasure]</p> <p>The conditions to display overlay as ON have been changed as follows.</p> <p>*Displayed as ON when all the following conditions meet.</p> <ul style="list-style-type: none"> ▪ VGP setting of menu is ON ▪ Service settings of VGP is ON ▪ VG option key is installed
14	<p>Image does not appear in the Console image display area during continuous operation</p> <p>[Symptom]</p> <p>The following message appears and image does not become displayed on the image display area when long-view exposure is continuously performed.</p> <div style="border: 1px dotted black; padding: 5px; margin: 5px 0;"> <p>[ST31465] It will be treated as a regular image due to a failure of provisional linkage.</p> </div> <p>[Cause]</p> <p>Such symptom occurs when there is an error in the memory allocation for image display.</p> <p>[Countermeasure]</p> <p>Added a Release processing to the relevant Object and made corrections so that memory will not leak.</p>
15	<p>Image status sometimes does not become updated after exposure suspension</p> <p>[Symptom]</p> <p>Depending on the timing of exposure suspension, updating the image status of the suspended menu sometimes fails and ShotReady lamp lights when menu is reselected.</p> <p>[Cause]</p> <p>Image status update sometimes fails due to exclusive processing flaw, depending on the suspension timing.</p> <p>[Countermeasure]</p> <p>Correction has been made so that image status will surely be updated regardless of suspension timing.</p>
16	<p>Exposure condition returns to APR default when changed in Tomosynthesis S</p> <p>[Symptom]</p> <p>After selecting a Tomosynthesis exposure menu and changing an exposure condition (kV, etc.), the exposure condition returns to APR default value (the condition of pre-shot, if with pre-shot) whenever condition of Tomosynthesis exposure menu (SID,Tomo/Incidence Angle,Exposure time) is changed again in Console.</p> <p>[Cause]</p> <p>When the Tomosynthesis exposure menu conditions (SID,Tomo/Incidence Angle,Exposure time) are</p>

	<p>changed, menu registration is done by pre-set therefore returns to default.</p> <p>[Countermeasure]</p> <p>Corrected the system setting so that whether to notify the Tomosynthesis menu exposure conditions by pre-set or individual can be switched.</p> <p>Note that DR-ID 300 CL is configured to notify by pre-set, while DR-ID 900CL is so by individual.</p>
17	<p>Exposure cannot be performed even when shot SW is clicked.→"[MI11003] In the process of starting exposure, time-out was occurred, and exposure has been cancelled." appears</p> <p>[Symptom]</p> <p>Exposure is unavailable even by clicking all shots and results in timeout.</p> <p>[Cause]</p> <p>The upper limit of the SQL User Connection count of Console is defined as 100. However, there are occasions when counts tentatively exceeds 100. When DB access is tried in such situation, access fails and error occurs.</p> <p>[Countermeasure]</p> <p>Corrected the upper limit of UserConnection counts from 100 to 200.</p>
18	<p>Operation becomes inefficient when image is acquired by displaying PID image during reconstruction processing</p> <p>[Symptom]</p> <p>When PID image is displayed during Tomosynthesis reconstruction and image acquirement is performed, the 2nd monitor screen becomes inactive.</p> <p>[Cause]</p> <p>Synchronization control between threads that generate images to be displayed is not adequate resulting in deadlocked.</p> <p>[Countermeasure]</p> <p>Reviewed and corrected the synchronization control between threads so that operation inefficiency such as hang-up will not occur.</p>
19	<p>The cradle LED lights a different selector color for an instance before Study starts</p> <p>[Symptom]</p> <p>For an instant, selector LED of the cradle lights the color that was selected right before Study-start and then changes to the proper selector color.</p> <p>[Cause]</p> <p>The following procedures were taken before Study-start.</p> <ol style="list-style-type: none"> (1) Light the cradle LED with the selector color that was chosen in the previous Study. (2) Select the selector together with the auto menu selection upon Study-start. (3) Light the cradle LED with the selector color that was chosen in (2). <p>Therefore, just for an instant when waiting for procedures (1) to (3) to be completed, the cradle LED is lit with the selector color that was chosen in the previous Study.</p> <p>[Countermeasure]</p> <p>Correction has been made so that the selected selector color is lit for the cradle LED before Study-start when choosing the selector linked with the menu selection is completed.</p>

*Other than the above, corrections made in DR-ID 300CL V8.0HF0001, DR-ID 800CL V8.0 and DR-ID 900CL V8.0 also apply.

4. Supported Version Information for Connected Device

The versions of devices, which can be connected to DR-ID 300CL V8.1, are shown below.

(1) FCR image reader

There is no change from the previous version in the connectable models of the FCR image readers and their versions.

(2) Control Unit

The following control units can be connected with V8.1.

- MC
 - Connection with DR-ID 600: V6.3or later
 - Connection with DR-ID 700: V4.3or later
 - Connection with DR-ID 800: V2.1or later
 - Connection with DR-ID 1200: V1.3or later
- CU
 - Connection with DR-ID200 Acselelate-Se: V3.11or later
 - Connection with DR-ID200 Acselelate-Csl: V4.5 or later
- FSC V2.2 or later

(3) PPU

Tomosynthesis Application Software which can be connected to V8.1 are V2.1 or later.

5. Installation Procedure

5.1. Cautions concerning upgrading installation

No.	Cautions
1	<p>Upgrading installation to DR-ID 300CL V8.1 can be performed only from the following versions. *Including HF for each version.</p> <ul style="list-style-type: none"> • DR-ID 300CL V5.0, V6.0, V6.1, V6.2, V7.0, V7.1, V7.2, V7.3, V7.4, V8.0 <p>Data migration can be performed from the following versions. *Including HF for each version.</p> <ul style="list-style-type: none"> • DR-ID 300CL V4.0 *1 • CR-IR 348CL V8.0, V8.1, V8.2, V8.3 *1 <p>*1: See ECN “2013-E-0015_1 Releasing the Data Replacing Procedure from CR-IR348CL V8 and DR-ID 300CL V4 to DR-ID 300CL V7.0” *Be sure to use MenuImportExportTool V6.8.</p>
2	<p>When upgrading at the institutions where the users are using the Retake Analysis function, the</p>

	<p>exposure result data file output function or the mis-exposed image comment function, collect the logs by using the log storage function of the User Utility before upgrading. (Refer to step 5 of "5.2 Upgrading Installation".)</p>
3	<p>Subsequently to the version upgrade, be sure to execute CopyReserveCode1FromMicroAs.bat on the systems where a temporary countermeasure (setting the data of the previously configured "ReserveCode1" to the first four digits of "Exposure_μAs") has been implemented against an error, which makes the communication value field for anatomical connection with Toshiba X-CON different from the one used in V4. (Refer to step 27 and step 28 of "5.2 Upgrading Installation".)</p> <p>*The data of the first four digits of Exposure_μAs is set to ReserveCode1. Refer to ECN No.2011-E-0364_DR-ID 300CL V6.1 ECN_Appendix-Z Correction of Errors Found in the Field for the details of countermeasures for this error.</p> <p>Note, however, that it is not required for institutions where CopyReserveCode1FromMicroAs.bat has already been implemented at the time of upgrading the application software to this version (V6.0 /V6.1)</p>
4	<p>Mammography exposure menu is added in V7.0. Since operation for keeping the usage of Console without the Mammography menu is not supported except those shipped to the U.S. and Canada, the Mammography exposure menu shall be added even to the device where the Mammography function is not used. If this implementation was already done in the earlier upgrading, no further operation is needed.</p> <p>For the Mammography menu destined to the U.S. and Canada, see "Appendix-H Mammography function hiding procedure" in this ECN.</p>
5	<p>Manual installation of the markers for mammography is required when using mammography function on V7.0 or later. (Excluding US/Canada)</p> <p>*Refer to "Appendix-A 5. Supporting CR mammography" in ECN No.2012-E-0291Rev.1 for details.</p>
6	<p>Updating SKB Launcher is necessary.</p> <p>For the systems where the SKB Launcher was installed before DR-ID 300CL V7.0 HF0001, execute "19) Install SKB Launcher" in the installer media for V7.1 to reinstall SKB Launcher.</p> <p>If this procedure is already performed, re-performance is not required.</p>
7	<p>The error "Patient names are right-aligned in the RIS tab on the Study list".</p> <p>Unlike other tabs, right-aligned patient names are displayed in the RIS tab. It was an error included in the definition file for DR-ID 300CL V7.0 and earlier and this definition file is migrated when upgrading the application software.</p> <p>This error can be corrected by replacing the definition file with the new one in V7.1.</p> <p>*If this procedure is already performed in re-performance in V7.2 or later is not required.</p> <p>*Note: Customized settings reset after the new definition file is replaced. Therefore, take a note of the customized settings for each tab and set them again after the new file is replaced.</p> <p><Other than Mobile></p> <p>[Installer DVD]:\program Files\FujiFilm\IIP\Config\CustomizeStudyListInfo.xml</p> <p>⇒Overwrite the new file on</p>

	<p>C:\Program Files\FujiFilm\IIP\Config\CustomizeStudyListInfo.xml</p> <p><Mobile></p> <p>[Standard KIT(Mobile)]:\Mobile\Config\CustomizeStudyListInfo.xml</p> <p>⇒Overwrite the new file on</p> <p>C:\Program Files\FujiFilm\IIP\Config\CustomizeStudyListInfo.xml</p> <p><Before replacement></p> <table border="1" data-bbox="331 465 986 808"> <thead> <tr> <th>Waiting Study (2)</th> <th>Waiting QA (1)</th> <th>Finish QA (6)</th> <th>All (9)</th> <th>Today (0)</th> <th>RIS (4)</th> </tr> </thead> <tbody> <tr> <th>Accession No.</th> <th colspan="2">Patient's Name</th> <th>Sex</th> <th>Patient ID</th> <th>RP Descri</th> </tr> <tr> <td>12345.01.1</td> <td colspan="2">Fuji Tarou</td> <td>M</td> <td>1234-12345</td> <td>Study Descri</td> </tr> <tr> <td>12345.01.3</td> <td colspan="2">Fuji Hanako</td> <td>F</td> <td>12345-6789</td> <td>Study Descri</td> </tr> <tr> <td>12345.01.4</td> <td colspan="2">Fuji Mineko</td> <td>F</td> <td>12345-4321</td> <td>Study Descri</td> </tr> <tr> <td>12345-0001</td> <td colspan="2">Yamada Jirou</td> <td>M</td> <td>12345-0123</td> <td>Study Descri</td> </tr> </tbody> </table> <p><After replacement></p> <table border="1" data-bbox="331 902 986 1245"> <thead> <tr> <th>Waiting Study (3)</th> <th>Waiting QA (6)</th> <th>Finish QA (25)</th> <th>All (34)</th> <th>Today (3)</th> <th>RIS (4)</th> </tr> </thead> <tbody> <tr> <th>Accession No.</th> <th>Patient's Name</th> <th>Patient ID</th> <th>Sex</th> <th>RP Description</th> </tr> <tr> <td>12345.01.1</td> <td>Fuji Tarou</td> <td>1234-12345</td> <td>M</td> <td></td> </tr> <tr> <td>12345.01.3</td> <td>Fuji Hanako</td> <td>12345-6789</td> <td>F</td> <td></td> </tr> <tr> <td>12345.01.4</td> <td>Fuji Mineko</td> <td>12345-4321</td> <td>F</td> <td></td> </tr> <tr> <td>12345-0001</td> <td>Yamada Jirou</td> <td>12345-0123</td> <td>F</td> <td></td> </tr> </tbody> </table>	Waiting Study (2)	Waiting QA (1)	Finish QA (6)	All (9)	Today (0)	RIS (4)	Accession No.	Patient's Name		Sex	Patient ID	RP Descri	12345.01.1	Fuji Tarou		M	1234-12345	Study Descri	12345.01.3	Fuji Hanako		F	12345-6789	Study Descri	12345.01.4	Fuji Mineko		F	12345-4321	Study Descri	12345-0001	Yamada Jirou		M	12345-0123	Study Descri	Waiting Study (3)	Waiting QA (6)	Finish QA (25)	All (34)	Today (3)	RIS (4)	Accession No.	Patient's Name	Patient ID	Sex	RP Description	12345.01.1	Fuji Tarou	1234-12345	M		12345.01.3	Fuji Hanako	12345-6789	F		12345.01.4	Fuji Mineko	12345-4321	F		12345-0001	Yamada Jirou	12345-0123	F	
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12345.01.3	Fuji Hanako	12345-6789	F																																																																	
12345.01.4	Fuji Mineko	12345-4321	F																																																																	
12345-0001	Yamada Jirou	12345-0123	F																																																																	
8	<p>Destination of installed Wake On LAN</p> <p>Do not change the default destination folder when installing "11) Install WakeOnLAN Application". (Because the path of default destination is overwritten with the tool whose errors has been corrected)</p> <p>Default destination of installed WakeOnLAN: C:\Program Files\FujiFilm\WOL</p>																																																																			
9	<p>SOP Class of supported DICOM Storage.</p> <p>Modality Code is strictly checked during DICOM Storage since CR mammography has been valid in V7.0. DE20001 error occurs when SOP Class is combined with unsupported Modality Code and Storage is not enabled. If console is upgraded from V6.2 or earlier, refer to "ECN No.2013-E-0043 Appendix-A 4. Supporting CR mammography (for other than Mammography QC)"and confirm that setting complies with support environment.</p>																																																																			
10	<p>DICOM Q/R setting.</p> <p>Though DICOM Q/R reprint function(network image search)has been supported in V7.2, the V4.0 setting for Q/R is not transferred to new version during version upgrading. Therefore, new setting for V8.0 is necessary.</p> <p>Refer to "ECN No.2013-E-0185 Appendix-A 2. DICOM Q/R reprint (product name: network image search software)" for setting procedures.</p>																																																																			

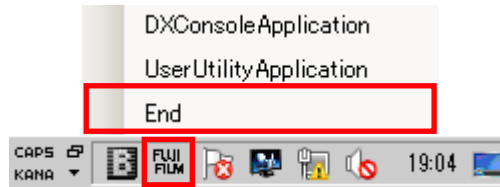
11	<p>Trimming size 17"x17" setting for study menu.</p> <ul style="list-style-type: none"> ▪ V7.0 or earlier :Trimming size 17"x17" setting is available ▪ V7.1 or later :Trimming size 17"x17" setting is not available <p>→*Note that 17"x17" is accepted only when trimming size is transferred to new version during version upgrading. (Will be as 17"x17" during operation and no problem is posed. Setting in User Utility is not available.)</p> <p>When trimming size in study menu is set as "no setting" in V7.1 or later, system cannot judge if trimming size is 17"x17" or of should refer to exposure menu.</p> <p>Therefore, if user wants to reset transferred trimming size 17"x17", perform by following the below procedure.</p> <p><Procedure to unlock trimming size></p> <ol style="list-style-type: none"> 1. Start User Utility, "Menu Setting" button→Select "Study Menu" and Edit→"Trimming settings(CR/DR)" button→Open "Trimming Size Settings" window. 2. Select any of the trimming size shown in the "Trimming Size" frame before pressing "OK" button. 3. Also press "OK" button in "Study Menu Setting" window. 4. Go through same procedure as press "Menu Setting" button→Select "Study Menu", Edit→"Trimming settings(CR/DR)"button→To unlock, open "Trimming Size Settings" window and select the trimming size that was previously selected. 								
12	<p>The default value when FPD-system cannot be identified upon image import from Media.</p> <p>During Media rereading of DR-ID 300CL V4.0 or earlier, (0007,F009)"Device Name" tag is added based on the below system setting. This tag is always set in V5.0 or later therefore the below system setting is not used. Thus, the options are limited to relevant connection devices only in V4.0</p> <p>[Setup Configuration Item]-[SYSTEM CONFIG]-[5.CSL/IDT FUNCTION]</p> <table border="1" data-bbox="276 1375 1318 1686"> <thead> <tr> <th>No.</th> <th>Name</th> <th>Value ⊙: Default value</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>312</td> <td>Media Set Default FPD-System</td> <td>BENEO FDR-AcSelerate CALNEO U/MT/MB ⊙CALNEO-C FDR D-EVO FDR-AcSelerate CSI CALNEO C SQ/FDR D-EVO plus CALNEO C mini D-EVO plus C24 CALNEO HC SQ</td> <td>Specifying the default value if FPD-System cannot be identified when the image is retrieved from the media. <u>* If the device deleted before version upgrade is still set, it is replaced to the default value "CALNEO-C".</u></td> </tr> </tbody> </table>	No.	Name	Value ⊙: Default value	Comment	312	Media Set Default FPD-System	BENEO FDR-AcSelerate CALNEO U/MT/MB ⊙CALNEO-C FDR D-EVO FDR-AcSelerate CSI CALNEO C SQ/FDR D-EVO plus CALNEO C mini D-EVO plus C24 CALNEO HC SQ	Specifying the default value if FPD-System cannot be identified when the image is retrieved from the media. <u>* If the device deleted before version upgrade is still set, it is replaced to the default value "CALNEO-C".</u>
No.	Name	Value ⊙: Default value	Comment						
312	Media Set Default FPD-System	BENEO FDR-AcSelerate CALNEO U/MT/MB ⊙CALNEO-C FDR D-EVO FDR-AcSelerate CSI CALNEO C SQ/FDR D-EVO plus CALNEO C mini D-EVO plus C24 CALNEO HC SQ	Specifying the default value if FPD-System cannot be identified when the image is retrieved from the media. <u>* If the device deleted before version upgrade is still set, it is replaced to the default value "CALNEO-C".</u>						
13	<p>Photometric Interpretation in the Service Class which was registered before upgrading has been upgrade and changed into the MONOCHROME 2, but the change is not reflected.</p> <p>Be sure to change to MONOCHOROME2 after deleting/re-registering the relevant Service Class with the AE displayed beneath the Host Name in [Service Utility]-[Setup Configuration Item]-[NETWORK CONFIG]-[ALL OTHER NODES].</p>								
14	<p>Search conditions for MWM communication</p> <p>If the version is upgraded from V7.3 or earlier to V8.1, search condition settings for RIS are not taken over.</p> <p>Set the settings again on the "Setting of RIS search condition" window after the upgrade.</p>								

	*The settings are taken over if the version is upgraded from V7.4 or V8.0 is reinstalled.
15	<p>EI correction value of ExposureIndex function</p> <p>V7.4 or earlier has taken over EI correction value by the upgrade.</p> <p>However, EI correction value is overwritten without being taken over by the upgrade to V8.0.</p> <p>When the version is upgraded to V8.1 at a facility customizing EI correction value, follow the below procedure to manually take over the value.</p> <ol style="list-style-type: none"> 1) Before the upgrade, copy and back up following file. C:\Program Files\FujiFilm\IIP\Param\ExposureIndex.prm 2) After upgrading to V8.1, if Console Application is activated, end it. 3) Start the explore and open the folder of C:\Program Files\FujiFilm\IIP\Param. 4) Use text editor to open C:\Program Files\FujiFilm\IIP\Param\ExposureIndex.prm. 5) Refer to ExposureIndex.prm backed up by step 1), and reflect the place being customized for a facility on ExposureIndex.prm of step 4). 6) Overwrite edited ExposureIndex.prm. 7) Start Console Application.
16	<p>Handling of the error that unnecessary files (thmcopy) remain in an Image folder</p> <p>With V7.3 or V7.4, unnecessary temporary files (thmcopy) may remain under an Image folder under the following conditions.</p> <ul style="list-style-type: none"> ▪ In the case when AcSelerate and Calneo-U/MT/MB (Units which does not transmit preview images to Console) is used to input images ▪ In the case when “No” is selected for “1.IMAGE MODALITY” - “316: EnableHighSpeedPreview” in Config <p>If the version is upgraded to V8.1 from V7.3 or V7.4 at the facilities applicable to the above conditions, after upgrading they must use the wiping tool (Delete_thmcopy.bat) attached to ECN“2014-E-0313 Releasing Measures for Preventing thmcopy File to Remain Inside Image Folder in DR-ID300CL(V7.3/V7.4)” to erase the temporary files located under the Image folder.</p> <p>* This error has been solved in V8.0. If the ECN mentioned above has been applied to V7.3 or V7.4, the tool has to be erased after the version is upgraded to V8.1.</p>
17	<p>Patient information display linkage function</p> <p>If the following setting file is customized in a facility using Patient information display linkage function, be sure to backup the file previous to version upgrade and locate the backed up file to the relevant folder after version upgrade is completed.</p> <p>*Note that the following file will not be inherited upon version upgrade but file rather returns to the factory default.</p> <ul style="list-style-type: none"> ▪ C:\FDRWeb\rmtDisp_PatientInfo\App_Themes¥PatientInfo.xsl
18	<p>Remote image display function</p> <p>If the following setting file is customized in a facility using Remote image display function, be sure to backup the file previous to version upgrade and locate the backed up file to the relevant folder after version upgrade is completed.</p> <p>*Note that the following file will not be inherited upon version upgrade but rather returns to the factory default.</p>

	<ul style="list-style-type: none"> ▪ C:\FDRWeb\rmtDisp_DisplayImage\web.config ▪ C:\FDRWeb\rmtDisp_DisplayImage\App_Themes¥Display.css ▪ C:¥FDRWeb\rmtDisp_DisplayImage\App_Themes\Display_Mobile.css ▪ C:¥FDRWeb\rmtDisp_DisplayImage\App_Themes\Anotation.css
--	---

5.2. Upgrading Installation

- 1) Start up the PC.
- 2) After Console has started up, confirm that no studies are left in the “Waiting study”, “Waiting QA”, or “Output Status” tab.
 - Studies in the “Waiting study” tab → Finish or delete the studies.
 - Studies in the “Waiting QA” tab → Finish QA.
 - Studies in the “Output Status” tab → Output the studies or delete the output queues.
- 3) In the data editor, set Physician of Record (0008,1048) to hide it if it has been set to display it. Refer to “6. Cautions-19. Correcting the error of mixed incorrect character in the Physician of Record AN” of this section.
- 4) Perform the following depending on the institution’s operational situation since log of exposure/mis-exposure become deleted upon installation.
(ECN See No.”2” if “5.1.Cautions concerning upgrading installation” in this ECN.)
 - For institutions using Retake Analysis
 - (1) Start up the User Utility.
 - (2) Perform "Retake Analysis" function and on-time store logs.
 - (3) Terminate the User Utility. Retake. (Terminate the User Utility while holding the <Shift> key to terminate only the User Utility and not to restart Console.)
 - For institutions where the users are using the exposure result data file output function or the mis-exposed image comment function.
 - (1) Start up the User Utility.
 - (2) Store the mis-exposure image log or exposure result log using the exposure result log storage function.
 - (3) Clear log by using exposure result log storage function.
 - (4) Terminate the User Utility. Retake. (Terminate the User Utility while holding the <Shift> key to terminate only the User Utility and not to restart Console.)
- 5) Terminate the Console and turn off PC.
- 6) After confirming that the PC power is OFF, turn it ON and start Console. The starting screen is displayed amid Console Application startup. Click top-left and then top-right of the screen within 3 seconds. (If Console Application has started, terminate only Application by pressing <Shift> key+ system termination and proceed to the next step)
- 7) Service Utility opens. Terminate it and go back to the desktop.
- 8) When “FUJIFILM” task remains on the task bar, right-click the task and select “End” to terminate it. After the termination, wait around 5 seconds, and then perform the next step.



- 9) Press <Ctrl>+<Shift>+<Esc> key to start up the task manager and display the “Application” tab. If the following programs are running, select them and click “End Process Tree”.

Click “OK” when the confirmation dialog appears.

- CooperManager.exe
- RemoteLoginChecker.exe

(*Terminate the following if mobile kit is used)

- PPSMonitor.exe
- SKBLauncher.exe

- 10) Exit the task manager.
- 11) Uninstall “Precise enlargement software”, “Free Layout Print software”, “Referral Viewing software”, “Network Image Search software” or “QA ROI Measurement software” if any of them are installed.

* See Service Manual “Installation-Appendix (AppxIN)”-“Appendix 7 Uninstallation of AP” for further procedures.

(Note)

As described in the Service Manual, use the CD for the installed software version to uninstall the precise enlargement software.

- 12) Insert the DR-ID 300CL V8.1 Application Disk into the DVD drive.
- 13) Press Windows key. Select “Computer” from start menu.
- 14) Open explorer and double-click DVD drive. Set menu of Console Advance appears. (Double-click “Setup.bat” located right beneath DVD drive if command prompt does not start.)

```

C:\Windows\system32\cmd.exe
*
DR Console Setup Tool
Main Menu
0)Quit
1)Install Database Management System
2)Install DR Console Application
3)Install Parameter Files <Menu DB, Image Processing Parameter, etc.>
5)Open Add/Remove Programs <Uninstall Application>
6)Open Add/Remove Hardware <Uninstall Device Driver>
7)Addition of Parameter Files For MammoQC
-----
10)Install FRIS Modules
11)Install WakeOnLAN Application
12)Install/Uninstall BENEQ Modules
13)Install Bitmap Files <Japanese Only>
14)Install Positioning Guidance
17)Install RAID Status Display Tool
18)Install PPS Cache Server
19)Install SKB Launcher
-----
20)Set up Remote Image Display
21)Set up Tomosynthesis
-----
40)Set up GPR Default Parameter
41)Set up Mask Processing Default Parameter
50)Install PDI Application
60)Install Precise Enlargement Function <Application>
61)Install QA ROI Measurement <Application>
62)Install QA Measurement <Application>
63)Install Referral Viewing Function <Application>
65)Install Free Layout Print <Application>
66)Install Network Image Search Function <Application>
-----
Select Number >
  
```

- 15) Enter “5” and press the <Enter> key.
- 16) Select “IIP” in the “Programs and Features” window. Console is uninstalled.
- 17) The system returns to the setup menu. Enter “2” and press the <Enter> key.

- 18) “Select Local” menu appears. Select the language that is currently set from Japanese/English(U.S.)/Other.
- 19) “Select Parameter” menu appears. Select the parameter type that is currently set from Monitor/Film.
- 20) When the “Welcome to the InstallShield for IIP” window appears, click the “Next” button.
- 21) When the “Ready to Install the Program” window appears, click the “Install” button.

(Note)

If the following error occurs, uninstall once more by following procedure 16).

```

Error1722 There is a problem with this windows
Installer package...

```

- 22) When the “InstallShield Wizard Completed” window appears, click the “Finish” button. Return to command prompt and installation continues.
- 23) After the installation, the following message appears. Then, press “Enter” key to back to the setup menu.

```

*****
***** Please reboot this system. *****
*****
Press any key to continue...

```

- 24) Install each linking application when necessary.

(Note)

Upon version upgrade in “ChineseTraditional” environment, the language selection in “Please select information to setup” window installed during linking application becomes “ChineseSimplified” rather than the previous “ChineseTraditional”. Therefore, be sure to select “ChineseTraditional” before installation

- For the systems in which the Precise enlargement software has been installed, install the precise enlargement software.
Enter “60)Install Precise Enlargement Function” and press the <Enter> key.
Refer to “Service Manual”-“Installation-Appendix(AppxIN)”-“Appendix 25. Precise Enlargement Function”-“1.1Installing the Precise Enlargement Function Software”-“4. Perform the following procedures.-● For V4.0” for further procedures. (Firewall settings are not required when installing)
- Install ROI measurement software if such function is necessary.
Enter “61” and press <Enter> key.
*Refer to “Service Manual”-“Installation-Appendix(AppxIN)”-“Appendix 48 QA ROI Measurement” for further procedure.
- Install referral viewing software if such function is necessary.
Enter “63)Install Referral Viewing Function” and press the <Enter> key.
*Refer to “Service Manual”-“Installation-Appendix(AppxIN)”-“Appendix 44 Referral Viewing” for further procedure.
- For institutions where the users are using the free layout print software, install the free layout print software.
Enter “65)Install Free Layout Print” and press the <Enter> key.

*Refer to “Service Manual”-“Installation-Appendix(AppxIN)”-“Appendix 30 Free Layout Print” for further procedure.

- When using Network Image Search function, install Network Image Search software.

Select “66)Install Network Image Search Function” and press “Enter” key.

*Refer to “Service Manual”-“Installation-Appendix(AppxIN)”-“Appendix 45 Network Image Search” for further procedure.

- 25) The system returns to the setup menu. Enter “0” and press the <Enter> key.
- 26) The location of tube configuration data, which was stored in TubeConfig.ini file in V6.2 or earlier, has been changed to Selector.mdb in V7.0. For this reason, set up the tube configuration data under the selector settings in the Service Utility.
- 27) V7.0 enables LUT setup for the primary monitor and the secondary monitor separately. Set up the LUT in the Service Utility if the system has the secondary monitor connected. ([Setup Configuration Item]-[LUT]-[2nd Monitor LUT])
- 28) Click “(Root):\tools\FirewallSetting.bat” on the DR-ID 300CL V8.1 Application Disk.

* Models referring to “5.1. Cautions concerning upgrading installation”-“3” must perform the following procedure after version upgrade installation.

29) Click“(Root):\tools\CopyReserveCode1FromMicroAs.bat” in the DR-ID 300CL V8.1 Application Disk.

30) When a confirmation dialog appears, press the “OK” button. (Twice in total.)

31) Remove the DR-ID 300CL V8.1 Application Disk from the DVD drive.

5.3. Replacing the default settings of exposure condition (XconParam.mdb) (if necessary)

As the default values of exposure conditions have been changed to reliable CR console values from V7.0, replace XConPara.mdb if necessary (Refer to “Appendix-A: Functional Settings 10. Revised default setting for exposure condition (XconParam.mdb)” in ECN No.2012-E-0291Rev.1)

Caution: Replacing XConParam.mdb changes all the menu settings to default.

5.4. Adding Mammography menu (excluding US/Canada)

Install the Mammography menu (Exposure menu and Image processing parameters).

See ECN “2012-E-0291 Rev.1 Appendix -B: Extended parameter convert tool”.

* See “5.1. Cautions concerning upgrading installation”-No.“4”.

* If it is already in the upgraded environment after V7.0, this is not a necessary implementation.

5.5. Adding Tomosynthesis menu

If a Tomosynthesis menu is used after upgrading, add Tomosynthesis menu (Exposure menu and Image processing menu).

For procedure of the addition, follow the ECN “2012-E-0291Rev.1 Appendix -B: Extended parameter convert tool.”

* If the Tomosynthesis function is already used before the upgrading, this work is not necessary.

5.6. Converting film to monitor

In institutions where standardize-less processing and monitor diagnosis are processed after upgrading,

convert parameters from film to monitor using the extended parameter conversion tool.

For procedures, see ECN “2012-E-0291Rev.1 Appendix -B: Extended parameter convert tool.”

* If the image processing parameters for monitor are already used before upgrading, this procedure is not needed.

5.7. Installing the electronic manual

Update the electronic manual (PDF file).

* See “Service Manual”-“Installation-Appendix(AppxIN)”-“Appendix 8 Upgrading the AP” for further procedures.

Be sure to reapply Application key when reinstalled electronic manual.

5.8. Confirming the installation

Reboot PC and confirm that Console Application is running.

6. Cautions

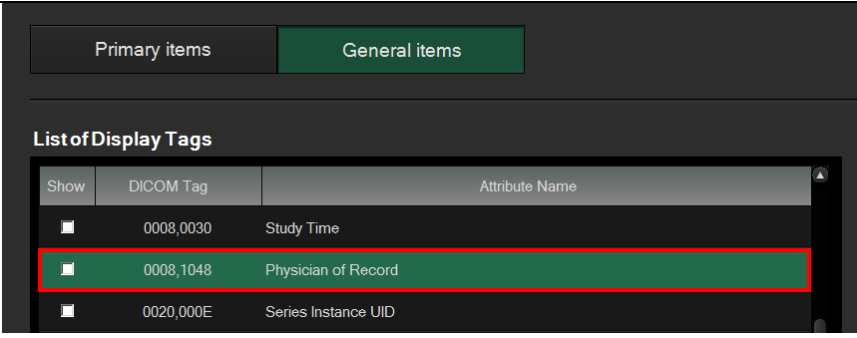
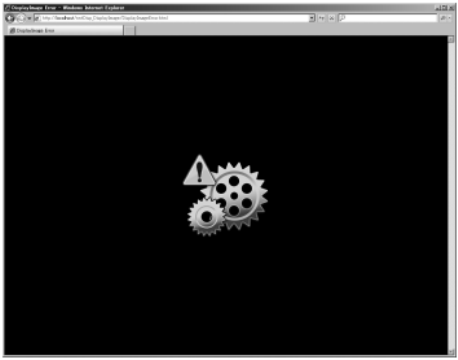
This version includes the following cautions.

No.	Cautions
1	<p>Error when using SynapseWebQuery on upgraded Console</p> <p>The message “GetPixels failed with error: CDicomImgSrc::GetPixels...Failed to process image” may appear and it disables image reference function when using SynapseWebQuery where the Console application software has been upgraded from the old version the latest version.</p> <p>In this case, reinstall the SYNAPSE client application.</p>
2	<p>Operation prohibited during RAID reconstruction</p> <p>Do not use Console while RAID reconstruction is in process. Console may not work properly.</p>
3	<p>Shot switch disabled when connection to D-EVO is established</p> <p>When the shot SW1 is turned ON/OFF while the connection to D-EVO is being established, the shot may not be performed even when the Ready is lit.</p> <p>In this case, select the menu again and continue the operation.</p>
4	<p>Wrong image orientation after reading study data output to media in non-FUJI original format</p> <p>The orientations of the images might be changed when reloading image data that was output to media without the Fuji original SOP Classes and then making some changes (such as menus).</p> <p>Confirm image orientation after changing menus, and then execute the processing.</p>
5	<p>For DVI connection between PC and monitor</p> <ul style="list-style-type: none"> - Turn on the monitor before PC when connecting PC and monitor with DVI. The display size of the Console screen may become small if the monitor is turned on after PC. - The following message may appear when the PC was left untouched over 20 minutes and then operation is resumed from the status that the monitor is OFF. <div style="border: 1px dashed black; padding: 5px; margin: 5px 0;"> <p>[OM30005] The screen resolution has been changed. Please restart the system</p> </div> <p>Restart is not necessary because pressing the OK button on the dialog can continue the operation.</p>

6	<p>Smaller time out value for PPS connection disabling operation</p> <p>The study list of Console may be locked, which disables operations if the connection to PPS is not established (due to a line disconnection, etc) under the condition of small time out value for the PPS connection. To prevent this symptom, set up DICOM PSS as follows.</p> <p>In the setting of DICOM PPS within a local Console (Service Class:Modality Performed Procedure Step, Role:SCU), set the time out value to a default value “15” or greater.</p>																																
7	<p>DX Image Storage For Processing prohibited</p> <p>The device, Synapse, connected to has not been supported although the support of the DI COM Digital X-ray Image Storage - For Processing has been notified in the ECN No.2011-E-0290Rev.1 software information of V6.0.</p> <p>Therefore, do not set up DICOM Digital X-ray Image Storage - For Processing.</p>																																
8	<p>No device to output shuttering setting with the file attribute</p> <p>Although V5.0 was equipped with a function to output the shuttering processing area as supplementary information, no device can use the information so far. Therefore, be sure to set “Apply mask processing to the image” to the setup item of Mask Processing in the registration of the other device (settings of DICOM SCP) on Console in V5.0 or later.</p>																																
9	<p>Setting for marking stitched portions when making stitched images</p> <p>Set up the following to mark the stitched portions on images.</p> <p>([Setup Configuration Item]-[SYSTEM CONFIG]-[1. IMAGE MODALITY]-[70. Enable Marking Stitched Image] - Select [Yes].)</p>																																
10	<p>At the time of new system installation</p> <ul style="list-style-type: none"> • The icon for the selector to set up is the one for 1M/2M (ST_NonTubeCRC.png) if StandardKIT(Mobile) has been used. In this case, change it to the icon file for 0.7M (ST_NonTubeCRC_S.png)in the Service Utility. • Comparing to DELL PCs, HP PCs make bigger sound when registering IPs. Attach external speakers only when they are necessary. 																																
11	<p>Troubleshooting the freeze occurring when Console is left untouched for a certain length of time</p> <p>A symptom has been reported from the market. Console freezes when it is left alone for a certain length of time after it is used.</p> <p>Refer to ECN 2012-E-0229Rev.1 for details of the troubleshooting procedure that has been released.</p>																																
12	<p>Settings for using DX Storage for general studies (other than Mammography studies)</p> <p>DR-ID300CL V7.0 enables settings under [1.IMAGE MODALITY]-[35:Modality Setup for Mammography Image] in the Service Utility. Select [2:MG] in [35:Modality Setup for Mammography Image] when using DX Storage(if [0:DX] is selected in [54:Modality Setup]).</p> <table border="1" data-bbox="292 1776 1254 1977"> <thead> <tr> <th colspan="2" rowspan="2">54: Modality Setup</th> <th colspan="2" rowspan="2">35: Modality Setup for Mammography Image</th> <th colspan="2">MPM code</th> </tr> <tr> <th>General study (other than x300)</th> <th>Mammography study (x300)</th> </tr> </thead> <tbody> <tr> <td>Modality Setup</td> <td>0:DX</td> <td>0:MG</td> <td>DX</td> <td>MG</td> <td></td> </tr> <tr> <td>(System</td> <td>0:DX</td> <td>1:CR</td> <td colspan="2">*Prohibited</td> <td></td> </tr> <tr> <td>setup)</td> <td>1:CR</td> <td>0:MG</td> <td>CR</td> <td>MG</td> <td></td> </tr> <tr> <td></td> <td>1:CR</td> <td>1:CR</td> <td>CR</td> <td>CR</td> <td></td> </tr> </tbody> </table>	54: Modality Setup		35: Modality Setup for Mammography Image		MPM code		General study (other than x300)	Mammography study (x300)	Modality Setup	0:DX	0:MG	DX	MG		(System	0:DX	1:CR	*Prohibited			setup)	1:CR	0:MG	CR	MG			1:CR	1:CR	CR	CR	
54: Modality Setup						35: Modality Setup for Mammography Image		MPM code																									
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(System	0:DX	1:CR	*Prohibited																														
setup)	1:CR	0:MG	CR	MG																													
	1:CR	1:CR	CR	CR																													
13	<p>(US /Canada only)Disabling Mammography function</p> <p>Mammography function is not available for US/Canada.</p> <p>Refer to “Appendix-H “Procedures to hide Mammography Function” in this ECN for further detail.</p>																																

14	<p>About displayed message [MD30009]</p> <p>If Console operation is continued where the message [MD30009] left displayed on screen, the message [MD30009] appears again when ShotSwitch is pressed, which disables image retrieve.</p> <div style="border: 1px dotted black; padding: 5px;"> <p>[MD30009] The conditions that do not allow an exposure to start have been sent from an external device.</p> <p>> Please check the exposure conditions of the external device.</p> </div> <p>The message [MD30009] appears when the exposure conditions become inconsistent between Console and CU.</p> <p>Provide a notice for users to prevent them from continuing operation on Console when the message [MD30009] appears. Make the users be informed that it is required to confirm the message and then to click [OK] to close it in such case.</p>												
15	<p>Adjusting menu name layout</p> <p>The number of letters of the menu names was adjusted by inserting spaces. In some cases, however, layouts are not optimized depending on resolution of monitors, which makes menu item layout visually undesirable.</p> <p>Use spaces to adjust the menu name layout.</p> <p><u>*Note, however, it is required to confirm how the system is operated in the institution to make a decision whether or not to change the menu names for adjustment.</u></p>												
16	<p>Network setup for Laptop PCs (to correct the error that disables CR cassette processing on Mobile Console)</p> <p><Network binding setting></p> <p>Priority of the network bind setup for Laptop mobile PCs has been changed. Set up the priority as follows</p> <table border="1" data-bbox="264 1245 1131 1588"> <thead> <tr> <th>Priority</th> <th>V7.1</th> <th>V7.0 or earlier</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Wireless connection to image local network</td> <td>Wired connection to in-hospital network</td> </tr> <tr> <td>2</td> <td>Wireless connection to in-hospital network</td> <td>Wireless connection to in-hospital network</td> </tr> <tr> <td>3</td> <td>Wired connection to in-hospital network</td> <td>Wireless connection to image local network</td> </tr> </tbody> </table> <p><Network></p> <p>In the case where CR cassette is used, at least one console needs to be registered in Service Utility - "IDT CONNECTING".</p>	Priority	V7.1	V7.0 or earlier	1	Wireless connection to image local network	Wired connection to in-hospital network	2	Wireless connection to in-hospital network	Wireless connection to in-hospital network	3	Wired connection to in-hospital network	Wireless connection to image local network
Priority	V7.1	V7.0 or earlier											
1	Wireless connection to image local network	Wired connection to in-hospital network											
2	Wireless connection to in-hospital network	Wireless connection to in-hospital network											
3	Wired connection to in-hospital network	Wireless connection to image local network											
17	<p>Migrating data from CR Console / AWS to be used in mammography QC</p> <p>The data migrated from CR Console / AWS can be used in the mammography QC function of DR-ID 300CL V7.1. The supported versions are as follows. Refer to "ECN No.2013-E-0043 Appendix-C Mammography QC DB convert tool" for further detail.</p> <p><Supported version of CR Console></p> <ul style="list-style-type: none"> • CR-IR 348CL V8.3(including HF) <p><Supported version of AWS></p> <ul style="list-style-type: none"> • CR-IR363AWS Application Software V4.2 (HF included) 												

18	<p>Replacement defect of DX parameter after version upgrade V7.0 to V7.1</p> <p>Cases of replacement defect of DX parameter may be detected when exposure menu in User Utility is set after upgrading version from V7.0 to V7.1 or later. Therefore, if conditions meet, be sure to check DX parameter with exposure menu import/export tool before setting the parameter.</p> <p><Conditions></p> <p>The following system setting change was made when V7.0 was upgraded to V7.1.</p> <p>[Setup Configuration Item]-[SYSTEM CONFIG]-[1.IMAGE MODALIDY]</p> <table border="1" data-bbox="252 472 1182 719"> <thead> <tr> <th>No.</th> <th>Name</th> <th>Value (V7.0)</th> <th></th> <th>Value (changed in V7.1)</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>Modality Setup for Mammography Image</td> <td>2:CR</td> <td>→</td> <td>0:MG</td> </tr> <tr> <td>54</td> <td>Modality Setup</td> <td>1:CR</td> <td>→</td> <td>1:CR or 0:DX</td> </tr> </tbody> </table> <p><Symptom></p> <p>If conditions meet, DX parameters are replaced defectively when exposure menu is setup in User Utility.</p> <p><Parameters that are replaced></p> <ul style="list-style-type: none"> ▪ ImageLaterality ▪ PatientOrientation ▪ AnatomicRegion ▪ ViewCodeValue ▪ ViewModifier <p><Remedies></p> <p>Check the following DX parameters using the exposure menu import/export tool and edit where necessary.</p> <ul style="list-style-type: none"> ▪ ImageLaterality ▪ PatientOrientation ▪ AnatomicRegionID ▪ ViewCodeValueID ▪ ViewModifierID1 ▪ ViewModifierID2 ▪ ViewModifierID3 ▪ ViewModifierID4 	No.	Name	Value (V7.0)		Value (changed in V7.1)	35	Modality Setup for Mammography Image	2:CR	→	0:MG	54	Modality Setup	1:CR	→	1:CR or 0:DX
No.	Name	Value (V7.0)		Value (changed in V7.1)												
35	Modality Setup for Mammography Image	2:CR	→	0:MG												
54	Modality Setup	1:CR	→	1:CR or 0:DX												
19	<p>Correcting the error of mixed incorrect character in the Physician of Record AN</p> <p>As A character "^" is inserted between first name and surname of the Physician of Record incorrectly, it is necessary to perform setting in the data editor according to the following procedure.</p> <p>1) In the data editor, set Physician of Record (0008,1048) to hide it if it has been set to display</p>															

	 <p>2) Upgrade the application software according to " 5.Installation Procedure".</p> <p>3) Set Physician of Record (0008,1048) to display.</p>				
20	<p>Referral viewing and Registering DICOM connection confirmation Service Class of DICOM Q/R reprinting</p> <p>In referral viewing (V7.1 or later) and using DICOM Q/R reprinting(V7.2 or later), service is required to register DICOM connection confirmation Service Class on Service Utility in the linking application. In such case, if either one is already set with "Dicom Verification", do not set the other but rather used the existing setting.</p> <ol style="list-style-type: none"> 1) Refer to Appendix-A "2.4.3. Service Class registration for DICOM connection confirmation " for DICOM Q/R reprinting function. 2) Refer to service manual Appx IN "Appendix 44 Referral Viewing 1.4.1 Setting the Connection of Referral Viewing Software" for referral viewing. 				
21	<p>Supported smart controller models</p> <p>iOS devices which are supported by the smart controllers are the 5th generation of iPad mini and iPod touch.</p>				
22	<p>Action against communication error encountered during the start of Console under the remote image display function</p> <p>In the event of an error, the following icon appears. Selecting this icon allows the remote monitor display information to be updated.</p> 				
23	<p>Setting 5.CSL/IDT FUNCTION 188.Mass Order Site Code Mapping Tag with the Service Utility</p> <p>The following description is included in Service Manual of V7.2 and earlier.</p> <table border="1" data-bbox="252 1843 1481 2089"> <tr> <td data-bbox="252 1843 336 2089">188</td> <td data-bbox="336 1843 528 2089">Mass Order Site Code Mapping Tag</td> <td data-bbox="528 1843 826 2089">A maximum of 49 one-byte characters. ⊙ (Blank)</td> <td data-bbox="826 1843 1481 2089">Specifying to which tag the site identification code, entered using the screening examination ordering function, is to be mapped. * This is the setup item in V4.0 or earlier or V6.2 or later.</td> </tr> </table> <p>Service Manual description is modified as follows to clarify the setup values.</p>	188	Mass Order Site Code Mapping Tag	A maximum of 49 one-byte characters. ⊙ (Blank)	Specifying to which tag the site identification code, entered using the screening examination ordering function, is to be mapped. * This is the setup item in V4.0 or earlier or V6.2 or later.
188	Mass Order Site Code Mapping Tag	A maximum of 49 one-byte characters. ⊙ (Blank)	Specifying to which tag the site identification code, entered using the screening examination ordering function, is to be mapped. * This is the setup item in V4.0 or earlier or V6.2 or later.		

	188	Mass Order Site Code Mapping Tag	Describe the DICOM tag values without a comma. Enter in one-byte characters. Ⓞ (Blank)	Specifying to which tag the site identification code, entered using the screening examination ordering function, is to be mapped. (E.g.) In case of mapping to (0032, 1033), enter 00321033. * This is the setup item in V4.0 or earlier or V6.2 or later.
24	iOS7 support (1): Using smart controller/remote image display			
	<p>◆ Limitations of WebApplication shortcut (OS error)</p> <p><Detail></p> <p>An error (incorrect URI) occurs if four or more URI shortcuts of WebApplication are created on the Home Screen.</p> <p><Remedy></p> <p>The number of URI shortcut of WebApplication should be up to <u>three</u></p>			
25	iOS7 support (2): Using remote desktop connection			
	<p>◆ PocketCloud</p> <p><Detail></p> <p>The connection information which was stored becomes cleared when updating to iOS7. Therefore, cannot access to Server during Server communication.</p> <p><Remedy></p> <p>Set the PocketCloud connection by following the instructions in “10.5.1.2. WisePocketCloud connection procedures” in ECN “2012-E-0107 Appendix-A Functional Settings”-“6.5.1. Wyse PocketCloud Settings”.</p>			
26	Enabling “HDD writing flush at study finishing function” for remote operation			
	<p>The study finishing time becomes slow when the following service setting is enabled. Be sure to check the operation condition of the facility before setting this function.</p> <p>[Setup Configuration Item]-[SYSTEM CONFIG]-[5.CSL/IDT FUNCTION] (A.01-21)No.379 “Flush Disk Cache at Study Finishing”</p>			
27	Using both in-hospital wire-less and wired network			
	<p>In V7.4 or later, if both wired and wireless are used for in-hospital network at the same time to communicate with DICOM unit, communication may be necessary more than once to connect. Thus, apply ECN“2014-E-0137” to Console with the concerned environment.</p>			
28	Screen becomes unintentionally under an image inversion processing state when image switching is performed in the exposure list			
	<p><Symptom></p> <p>If the message display setting during image sending is set to “Yes”, a confirmation message appears at the timing when a display image is switched by clicking (short pressing) the thumbnail part of the image in the QA screen exposure list.</p> <p>One to two seconds after the message is displayed, the QA screen results in an image inversion processing state.</p> <p><How it occurs></p>			

Set the following setting to “Yes” in Service Utility.

[Setup Configuration Item]-[SYSTEM CONFIG]-[3.QA FUNCTION]

No.	Category	Name	Area (☉:Default)	Comment
9	C.03.11	Alert MSG Display When Save	☉No Do not display ○Yes Display	Setting whether to display a storage confirmation dialog upon previous or next Study shift / previous or next image shift/ QA termination

Startup Console. Start a Study that includes more than two menus from the Study list.

Display the exposure list.

Click (short click) the thumbnail part of an exposure menu different from the image displayed on the image display area.

A confirmation message appears. One to two seconds after the message display, message responds.

⇒Screen becomes under an image inversion processing state.

<Remedy>

The above setting is recommended to be left as “No” (default).

Whenever setting it to “Yes”, be sure to inform the user on the <symptom>and <how it occurs> before setting.

29 Initial General RIS Browser startup fails under in-hospital wireless network environment

<Under which environment it occurs>

An environment that meets both of the following conditions.

General RIS Browser function (option) is installed.

Connected wirelessly with in-hospital line.

<Symptom>

When initially running the General RIS Browser immediately after Console startup (including all startups such as OS startup and startup after User Utility termination) under an in-hospital wireless network environment, network always becomes offline and cannot be connected to RIS.

<Remedy>

(1) Check with the facility whether it is using in-hospital wire network.

If wire network is not required (always wireless connection with in-hospital line)

⇒Set the Wire LAN of OS network setting to “Disable”.

If wire network is required (uses both wire/wireless connection as needed)

⇒Perform following (2).

(2) Follow instructions described in ECN “2014-E-0137” for setting and confirmation.

<Remark>

Despite that the applicable scope of this issue is different from that described in ECN “2014-E-0137”, remedy shall be the same from the aspect of “when switching multiple NICs in an in-hospital network, communication fails”.

30 Time out during image input resulting from poor network

<Symptom>

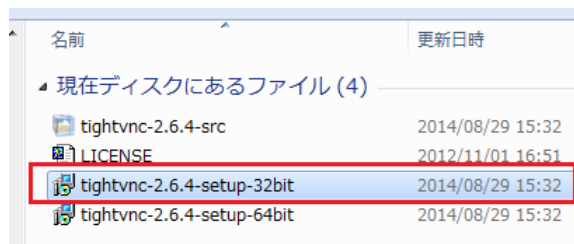
	<p>When inputting image with wireless small AP, radio condition becomes poor and image input process stops owing to wireless small AP plug-out and the like.</p> <p>Since there is no message or input status display during such condition, user often mistakes that system has frozen.</p> <p><Cause></p> <p>Time out(180 sec) during image input(*).</p> <p>*Preview image input or main image input after preview image is entered.</p> <p>This is a conventional setting and can also be seen during wire connection. However, it is more likely to occur during wireless connection owing to poor communication network, especially loose connection or plug-out of wireless small AP.</p> <p><Remedy></p> <p>Explain the following to the user.</p> <hr/> <p>If preview/main image does not appear immediately after exposure, please check the following.</p> <p>(1) For sites using wire connection</p> <ul style="list-style-type: none"> ▪ Cable connection between Console and MC. ▪ Connection condition of cable itself . <p>(2) For sites using wireless connection</p> <ul style="list-style-type: none"> ▪ Signal strength of image ▪ Signal strength of panel ▪ Wireless connection settings (See ECN “2012-E-0100 DR-ID 300CL Precautions for Network Settings for DR-ID 300CL Mobile Console”.) <p>If the signal strength is weak, strengthen it by removing the shielding object or shorten the distance, etc.</p> <p>(3) For sites using wireless small AP</p> <ul style="list-style-type: none"> ▪ Plugging condition of wireless small AP. ▪ Same as (2). <p>If the main image is not displayed immediately, be sure to ask user to wait 180 seconds before rebooting PC.</p> <hr/>
31	<p>Interpretation of a value to be set to Tomo Time (0018,1480)</p> <p>In V8.0, we have changed the interpretation of a value to be set to TomoTime (0018,1480).</p> <p>V7.4 or earlier) Total value of X-ray irradiation time</p> <p>V8.0 or later) Total exposure time (X-ray tube traveling time)</p> <p>According to the above change, we have changed the setting of overlay display items as follows for a new installation of V8.0.</p> <p>[User Utility]-[Property Setting]-[Setup during a study 2]-[Setting for tomosynthesis view]</p> <p>Prefix: Change to “Total Exposure Time” to “Tomo Time”</p> <p>Overlay display items are taken over when the version is upgraded. Thus, when the version is upgraded, discuss with users about changing display by taking a facility’s operation circumstances into consideration.</p>

32	<p>Installing ECN with tools in Application media</p> <p>Install the ECN, which has tools and resources issued in 2014, in Application Software media. Here are the folder configurations.</p> <p>*“SEI umber” and “ECN number” will have numbers that will be stated later.</p> <pre> CD:\ ├── Tools │ └── SEI (ECN) │ ├── SEI number (ECN number) │ │ ├── SEI number.doc │ │ ├── ECN number.doc │ │ └── ECN number a.doc │ └── XXXXX.bat </pre> <p>Here are the applicable SEI and ECN.</p> <table border="1" data-bbox="268 801 1093 1391"> <thead> <tr> <th>SEI description</th> <th>SEI</th> <th>ECN</th> <th>Equipped Version</th> </tr> </thead> <tbody> <tr> <td>13-004-377</td> <td>DRCLC139_1</td> <td>2014-E-0312</td> <td rowspan="9">V8.0</td> </tr> <tr> <td>14-004-008</td> <td>FCRC263</td> <td>None</td> </tr> <tr> <td>14-004-056</td> <td>DRCLC175</td> <td>2014-E-0033</td> </tr> <tr> <td>14-004-063</td> <td>DRCLA100</td> <td>2014-E-0059</td> </tr> <tr> <td>14-004-159</td> <td>DRCLC181</td> <td>2014-E-0137</td> </tr> <tr> <td>14-004-264</td> <td>DRCLA105</td> <td>2014-E-0150</td> </tr> <tr> <td>14-004-363</td> <td>DRCLA110</td> <td>2014-E-0219</td> </tr> <tr> <td>14-004-214</td> <td>DRCLA057</td> <td>None</td> </tr> <tr> <td>14-004-055</td> <td>DRCLC182_2</td> <td>2014-E-0083</td> </tr> <tr> <td>14-004-614</td> <td>DRCLC201_1</td> <td>2014-E-0377</td> <td>V8.1</td> </tr> </tbody> </table>	SEI description	SEI	ECN	Equipped Version	13-004-377	DRCLC139_1	2014-E-0312	V8.0	14-004-008	FCRC263	None	14-004-056	DRCLC175	2014-E-0033	14-004-063	DRCLA100	2014-E-0059	14-004-159	DRCLC181	2014-E-0137	14-004-264	DRCLA105	2014-E-0150	14-004-363	DRCLA110	2014-E-0219	14-004-214	DRCLA057	None	14-004-055	DRCLC182_2	2014-E-0083	14-004-614	DRCLC201_1	2014-E-0377	V8.1
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14-004-614	DRCLC201_1	2014-E-0377	V8.1																																		
33	<p>Precautions regarding energy subtraction and Tomosynthesis</p> <p>In V8.0, System Config of energy subtraction and Tomosynthesis have been added. However, there is no need to change in use with Acselelate. As “Appendix-A Function Settings 17. Precautions Regarding Energy Subtraction and Tomosynthesis” in this ECN describes the details, refer to it.</p>																																				
34	<p>Initial error upon Console startup</p> <p><Symptom> “[MD00001] Failed in initialization.” error appears upon starting up Consol.</p> <p><Remedy> Check the event log. If it is a source =“DsmpuUserMode”, event ID=65535 error, check that the OS serial port setting and Console setting are consistent.</p>																																				
35	<p>Motion detection function of Smart-QA</p> <p>Long view (MPM:770D) is not supported by Smart-QA motion detection function.</p>																																				
36	<p>Limitation of “density optimization” function during arbitrary rotation</p> <p>The density of image that was rotated with arbitrary angle cannot be optimized. (Button is inactive)</p>																																				

37

TightVNC installer

From V8.1 onward, TightVNC installer is mounted in the Application Software installation DVD. Be sure to use “\tools\VNC\TightVNC\tightvnc-2.6.4-setup-32bit.msi ” when installing TightVNC.



名前	更新日時
現在ディスクにあるファイル (4)	
tightvnc-2.6.4-src	2014/08/29 15:32
LICENSE	2012/11/01 16:51
tightvnc-2.6.4-setup-32bit	2014/08/29 15:32
tightvnc-2.6.4-setup-64bit	2014/08/29 15:32

<Remark>

“tightvnc-2.6.4-src.zip” and “LICENCE.txt” are mounted for OSS regulation reason. Do not use them.

“tightvnc-2.6.4-setup-64bit.msi” is an installer for 64bit environment. Limitation should be lifted when 64bit support is completed.

7. Limitations

Operational limitations in DR-ID 300CL V8.1 are as follows.

No.	Operation limitation
1	<p>In clustering, the study information sometimes cannot be acquired.</p> <p>→ If the study information cannot be acquired during the operation check after setup.</p> <p>Start C:\Windows\System32\drivers\etc\hosts with the text editor.</p> <p>Append the IP address and host name of a console at the end of a file for sharing the study information to save the hosts (a single byte space between IP address and host name).</p> <pre> # Copyright (c) 1993-2009 Microsoft Corp. # # This is a sample HOSTS file used by Microsoft TCP/IP for Windows. # # This file contains the mappings of IP addresses to host names. Each # entry should be kept on an individual line. The IP address should # be placed in the first column followed by the corresponding host name. # The IP address and the host name should be separated by at least one # space. # # Additionally, comments (such as these) can be placed on lines and # lines or following the machine name. # # For example: # # 102.54.94.97 rhino # 38.25.63.10 x.acm # # localhost name resolution is handled within local processor # 127.0.0.1 localhost # ::1 localhost 172.16.2.80 CSL 172.16.2.81 CSL-B 172.16.2.91 CSL-C </pre> <p>Following three CSLs are registered in this example.</p> <p>172.16.2.80 CSL 172.16.2.81 CSL-B 172.16.2.91 CSL-C</p>
2	<p>The trimming reference position, if changed from the x-ray tube panel in the Selene/Roots on configuring the B4 trimming, is not reflected into Console menu.</p> <p>→ Change the menu reference position from Console side.</p> <p><Remarks></p> <p>This symptom is not generated during the connection of VELOCITY.</p>

8. Lifting Limitations

The following operation limitations have been lifted.

No.	Operation limitation	Remarks
1	<p>ECN “2014-E-0374 Releasing the Information of DR-ID 300CL Application Software V8.0”-“7. Limitations”- “No.1”</p> <p>Data cannot be output to media during integrated output processing in clustering.</p> <p>→Do not output data to a removal media during the integrated output processing.</p> <p>(The data is output to the media within the own device during the output processing.</p>	<p>This limitation was lifted in V6.1.</p>

9. List of Attachments

No.	Item	Document name
1	Function Settings	Appendix-A
2	List of Changes in Conformance Statement	Appendix-D
3	Releasing DR-ID 300CL PPU Application Software V2.1	Appendix-E
4	List of Changes in System Config	Appendix-I

DR-ID 300CL V8.1 ECN_Appendix-A Function Settings

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1. Measurement (Distance, Angle)

1.1. Overview

Measurement function (distance, angle) has been mounted in Console as a QA function. The measured results can be displayed on Console screen (1st Monitor) as reference information, but cannot be stored or output to external device.

* Touch panel operation is not recommended for this function. Always use PC mouse.

1.2. Option key

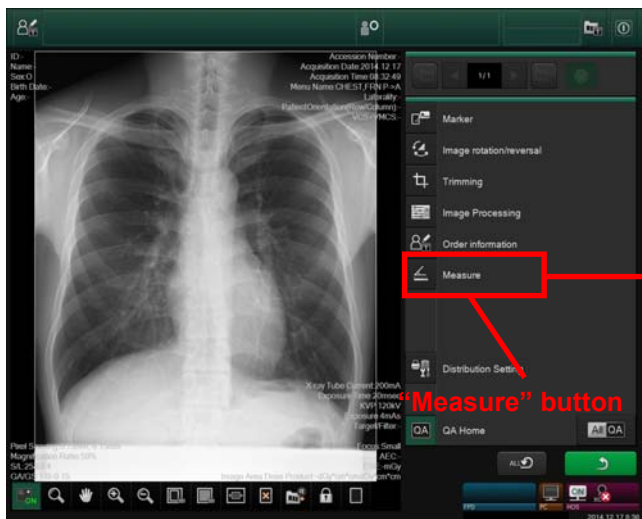
None

1.3. Detail

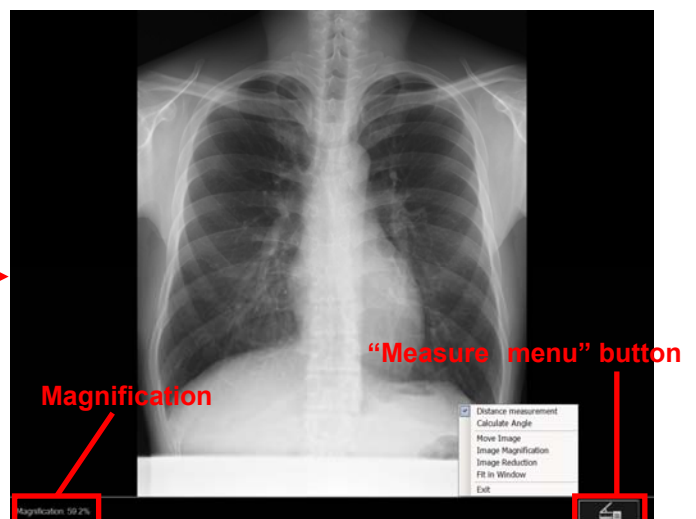
■ Starting up the measurement screen

The "Measure" screen can be started by clicking the "Measure" button in the in-study QA/Study list QA.

QA screen:



Measure screen:



* "Measure" button is disabled in Tomosynthesis menu.

■ Distance measurement

The distance of any position within the image can be measured and the results can be displayed on the screen.

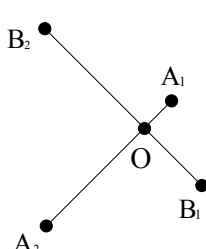
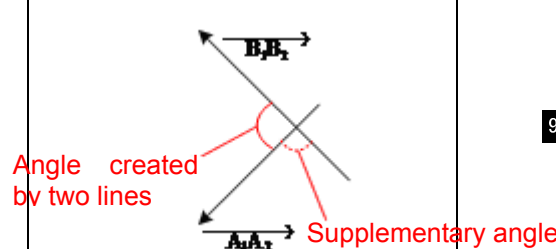
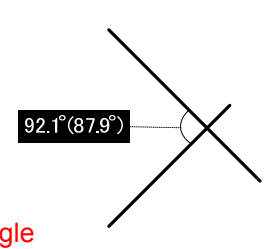
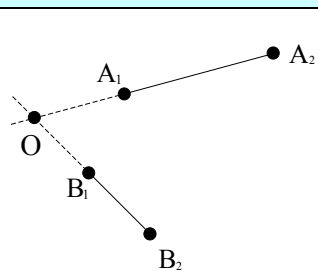
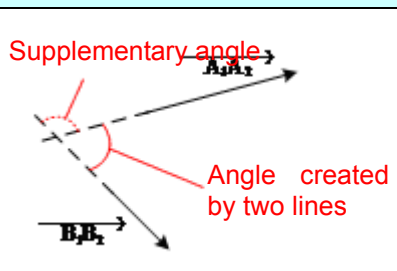
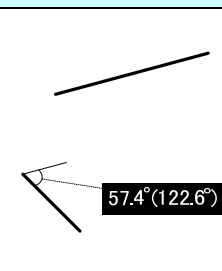
- Display specification of the distance measurement result:
 - Precision: Calculated to the second decimal place (value rounded off to the second decimal place)
 - Unit: mm/inch(in accordance with service settings)
- Can move the distance measurement result to any place within the image display region. Measurement result can also be deleted.
- Can set the color of line (common to angle measurement) in the Service Settings.
- Can measure a maximum total of 16 points together with the angle measurement result.
- Measurement result correction:

- If the magnification ratio can be received from Xcon, the measurement result is adjusted according to the ratio in the case of magnified exposure.
- In the case of general exposure, if SID and STD are received from Xcon, the measurement result is adjusted according to the magnification ratio calculated with SID and STD. If SID and STD are not received from Xcon, the measurement result will not be adjusted.
- When the measurement result is adjusted, a "#" mark that describes adjustment completion appears at the end of the measurement result.

■ Angle measurement

An arbitrary angle (*1) and supplementary angle (*2) on the image can be measured and the measurement result can be displayed on the image.

- Display specification of the angle measurement result:
 - Precision: Calculated to the second decimal place (value rounded off to the second decimal place)
 - Unit: Degree
- How angle measurement are described:

When two lines cross		
2 lines subject to measurement	Measurement angle and supplementary angle	Display of measurement result
		
When two lines do not cross		
2 lines subject to measurement	Measurement angle and supplementary angle	Display of measurement result
		

- Can move the angle measurement result to any place within the image display region. Measurement result can also be deleted.
- Can set the color of line (common to angle measurement) in the Service Settings.
- Can measure a maximum total of 16 points together with the distance measurement result.

1.4. Setting Procedures

1.4.1. Procedure to install measurement function

Install the measurement function with DR-ID 300CL V8.1 Application Disk “62) Install QA Measurement (Application)”.

- 1) Insert the DR-ID 300CL V8.1 Application Disk into the DVD drive.
- 2) Press Windows key. Select “Computer” from start menu.
- 3) Open explorer and double-click DVD drive. Set menu of Console Advance appears. (Double-click “Setup.bat” located right beneath DVD drive if command prompt does not start.)
- 4) Enter “62” (Install QA Measurement (Application))and press the <Enter> key.
- 5) “Install QA Measurement screen ” window appears. Select the “QA Measurement”.
- 6) “Welcome to the QA Measurement Setup Wizard” window appears, click the “Next” button.
- 7) "Please select information to setup" window appears. Select the adequate language and monitor. Then click the "Next" button.
- 8) “Confirm Installation” window appears, click the “Next” button.
- 9) “Installation Complete” window appears, click the “Close” button.
- 10) “Install QA Measurement” window appears, click the “Close” button.
- 11) Returns to “Install QA Measurement screen” window. Click the “Exit” button.
- 12) The system returns to the setup menu. Enter “0” and press the <Enter> key.
- 13) “Press any key to continue...” displayed. Then press any key and close the Command Prompt.
- 14) Remove the DR-ID 300CL V8.1 Application Disk from the DVD drive.

1.4.2. Service Utility Settings

Service Utility of Console Application:

The following setting has been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[7.CONFIG OPTION]

No.	Category	Name	Area(☉:Default)	Comment
21	C.03.24	Enable QA Measurement	Yes ☉No	Enable/disable measurement function

Service Utility of Linking Application:

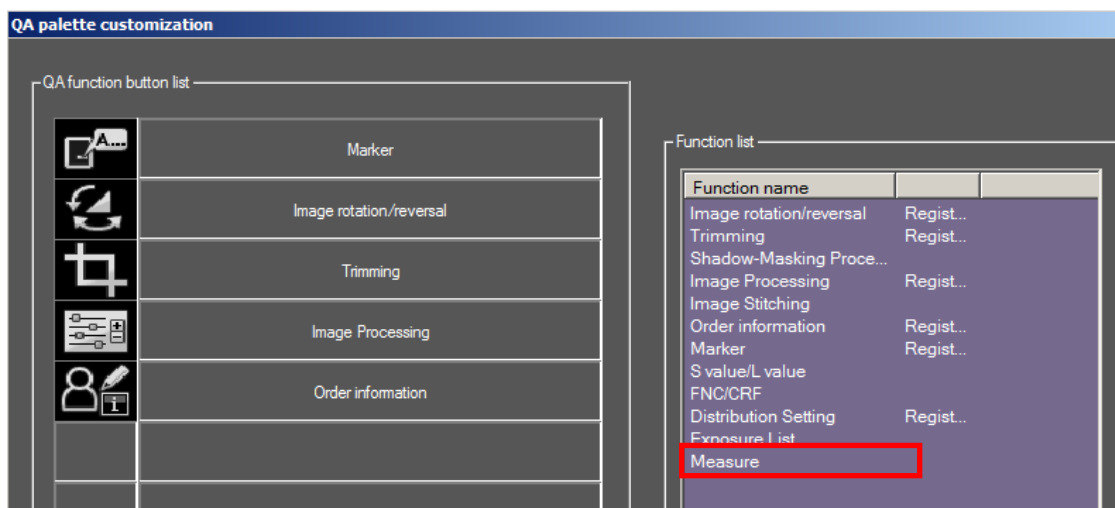
“DCT” settings window has been added. The following settings can be performed on “DCT” window.

Name	Area(☉:Default)	Comment
Zoom ratio for a click (%)	5/☉10/15/20/25/30/40/50	Zoom/reduction ration per one click when performing magnified/reduced display
Maximum zoom ratio (%)	200/300/400/☉500	Maximum zoom ratio for expanded display
Display unit	☉mm/inch	Unit of distance measurement
Color	☉Pink/Blue/Yellow/Purple/ Orange	Color of line R,G,B value for each color Pink:223,69,119

		Blue:9,167,189 Yellow:173,155,0 Purple:167,93,224 Orange:234,95,40
--	--	---

1.4.3. User Utility Settings

The "Measure" button can be set to display/hide from "Customizing the screen display" -> "QA function button customize".



1.5. Caution

- Note that the measurement result of this function is a reference value therefore the user must take responsibility on how to judge such result.
- PEM processing is performed in QA Measurement function of AWS but not in DR-ID 300CL measurement function. (DR-ID 300CL does not apply PEM processing on images displayed on the Study screen or QA screen therefore the measurement screen is designed to be consistent with such behavior.)

2. Graphical Menu Option

2.1. Overview

Up until V8.0, exposure areas were selected from text button. Now they can also be selected from the abstract illustration of human body.

The terms used in this section are as follows.

Term	Definition	Supplementary
Classic	GUI to select exposure part from the text button group	GUI in V8.0 or earlier
Graphical	GUI to select exposure part from the abstract illustration of human body.	V8.1 new GUI

2.2. Option key

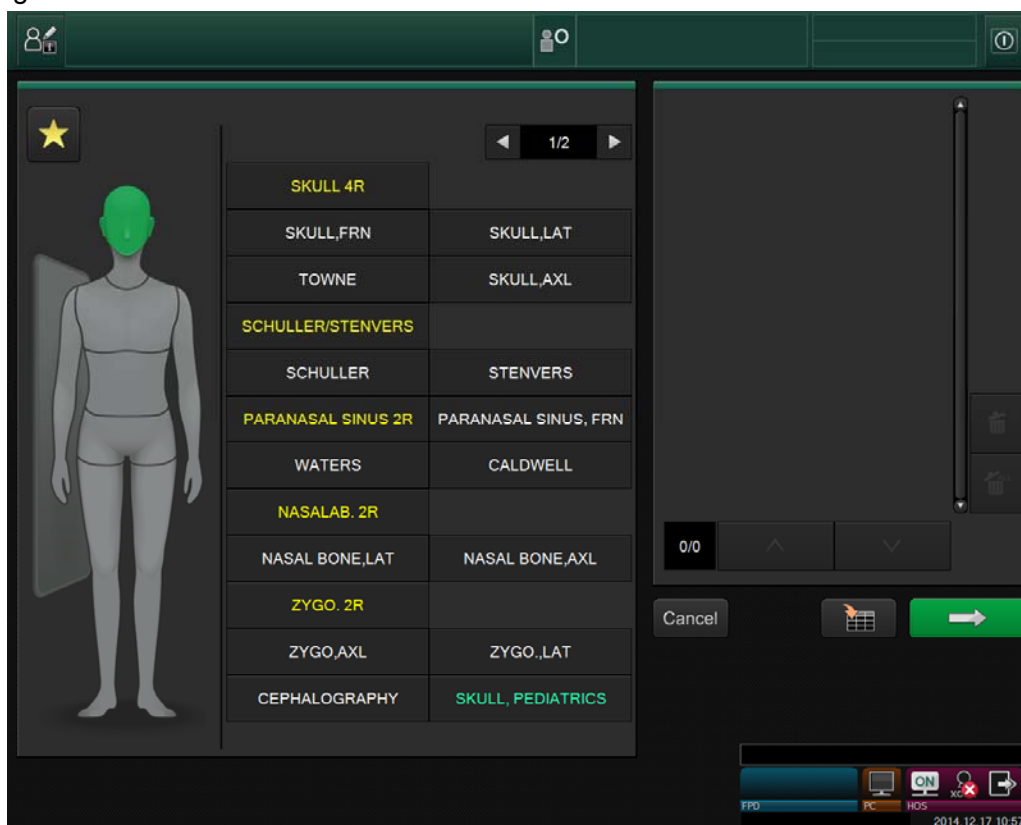
None

2.3. Detail

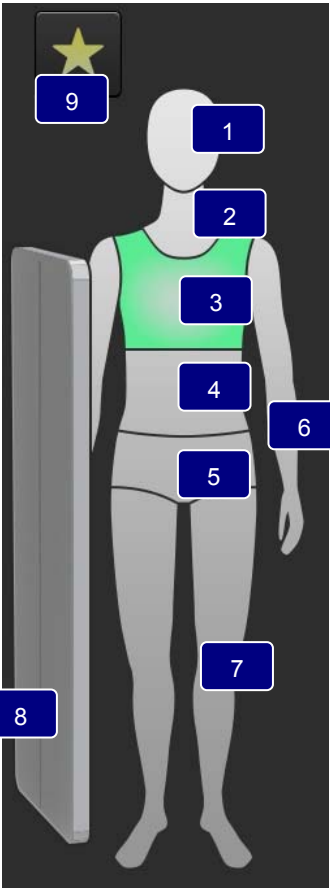
The exposure part can be selected from the abstract illustration of the human body in the following screen.

- Menu registration window
- Window to change/add menu in the Study screen
- Window to change menu in QA screen
- User Utility Menu Setting screen

Screen image:



The factory default for abstract illustration parts of human body and exposure menu is as follows in Graphical.

Classic (V8.0 or earlier)		Graphical (New V8.1)		
NameSbcs		NameSbcs	No	Remarks
HEAD		HEAD	1	Initial setting of screen display
NECK		NECK	2	
CHEST ABDOMEN		CHEST	3	
-		ABDOMEN	4	
PELVIS		PELVIS	5	
UPPER EXTREMITY		UPPER EXTREMITY	6	
LOWER EXTREMITY		LOWER EXTREMITY	7	
-		STITCH	8	No display when no stitch option
-		FAVORITES	9	Locates menus that do not belong to categories 1 to 8
SPINE		-		Allocates to each part
THORACIC CAGE		-		Allocates to each part
PORTABLE		-		No allocation as default
BREAST		-		No allocation as default
TOMOGRAPHY		-		No allocation as default
CONTRAST		-		No allocation as default
SOFT TISSUE		-		No allocation as default
LINAC GRAPHY		-		No allocation as default
QC/TEST		-		No allocation as default
ROUTINE		-		No allocation as default

2.4. Setting Procedures

2.4.1. Service Utility Settings

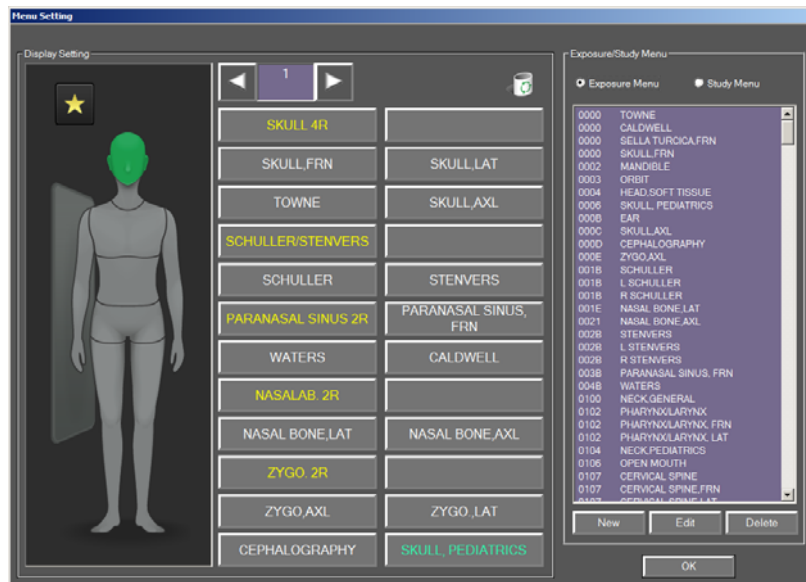
The following setting has been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[5.CSL/IDT FUNCTION]

No.	Category	Name	Area(☉:Default)	Comment
400	E.01.20	Menu Screen Mode	☉Classic Graphical	Menu display mode setting

2.4.2. User Utility Settings

“Menu Setting” screen is as follows.



2.5. Caution

- Note that the Graphical display returns to the factory default when version is upgraded to V8.1. Therefore, be sure to customize after performing version upgrade. (Setting contents of Graphical and Classic do not cooperate with each other)

3. Free Layout Print in Study

3.1. Overview

Up until V8.0, Free layout print function was only available after Study completion on the Work list screen. It could not be done during Study.

However in response to field requirement, Free layout print function has been enabled during Study in V8.1.

3.2. Option key

When using Free layout print function, be sure to apply the existing Free layout print function option key.

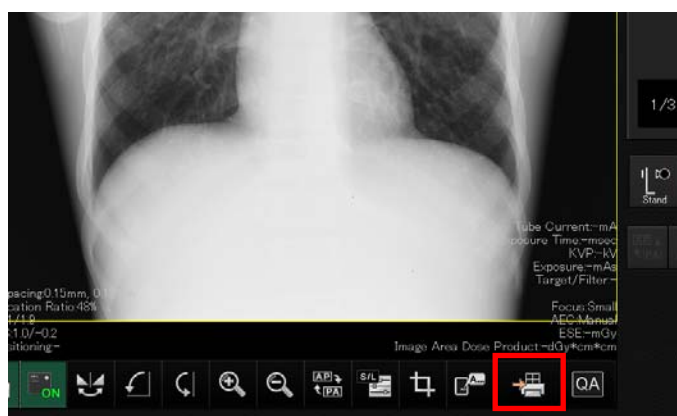
3.3. Detail

- Displaying the "Free layout print" button on the Study screen.

“Free layout print” button can be registered in the Study screen as a QA shortcut.

“Free layout print” button can be displayed when all of the following conditions meet.

- Option key of Free layout print function is installed
- Option key for DICOM print is installed
- Setting of Service Utility “Enable Free Layout Print In Study” is enabled
- “Free layout print” is registered in User Utility “Shortcut for QA function”
 - * See “3.4.2. User Utility Settings” for where shortcut buttons are located.



Free layout print function itself does not change.

3.4. Setting Procedures

3.4.1. Service Utility Settings

The following setting has been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[7.CONFIG OPTION]

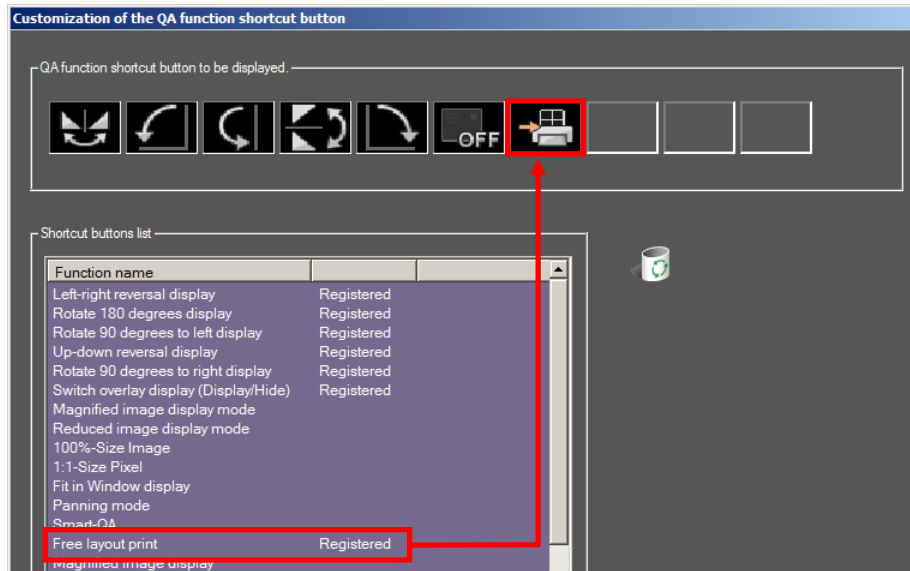
No.	Category	Name	Area(☉:Default)	Comment
20	C.02.13	Enable Free Layout Print In Study	Yes ☉No	Enable/disable Free layout print function in Study

3.4.2. User Utility Settings

Set enable/disable for “Free layout print” in “Customizing the screen display” -> “Customization of the QA

function shortcut button”.

Setting of *Service Utility “Enable Free Layout Print In Study” is enabled



3.5. Caution

- ShotReady does not perform when Free layout print function is running.
- Image input in the background cannot be displayed when Free layout print function is running.
If such image needs to be displayed, terminate Free layout print function and Study screen, and then reboot the Free layout print function.

4. Switching Technologist by Barcode Reading

4.1. Overview

Up until V8.0, "Switch the user" dialog had to be started from the menu at the up-right of screen whenever switching technologist.

In V8.1, the workflow has improved so that technologist can be switched by reading the technologist barcode (1D).

4.2. Option key

None

4.3. Detail

■ Screens subject to technologist switching by barcode reading

Screens of which technologist switching is available by barcode reading are as follows.

Screen enabled to switch user operation	Switching with barcode
Study registration screen	Enable
Exposure part selection screen	Enable
Study list screen	Enable
Study screen	Disable
QA screen	Disable

■ Barcode Format setting for operation switching upon barcode reading

Operation switches depending on the barcode format (see 4.4.1 Service Utility) that is read during barcode reading.

- In the case of technologist format
Switches to the technologist of which information is consistent
- In the case of patient format
Registers the patient information.
- In the case of unregistered format
Does not search.
- If the format can not be identified if it is for a technologist or a patient (defined as same format for technologist and patient)
Items with high priority can be searched by barcode setting in Service Utility.

■ Technologist information used for barcode reading

By selecting ON/OFF of user security (Service Utility [1. IMAGE MODALITY]-[37. EnableUserSecurity]), the search key can be switched during user switching upon barcode reading.

	When security is ON	When security is OFF
Search key	Technologist user name (below figure (1))	Technologist name (below figure (2))

User Utility: “Table Setting Menu”→“Technologist Information Setting”

* When security is OFF, the area framed with red dots does not appear and User Name/Password/User group cannot be configured.

4.4. Setting Procedures

4.4.1. Service Utility Settings

■ Change-points in “Barcode Setting-> 1D Barcode”-> “Barcode” screen.

- Priority setting has been added
 - Items described at the upper part of the list are preferentially used as the Study conditions.
- “Purpose” field for format has been added

“Barcode” screen

Barcode Type	Start Character	Stop Character	Barcode Length	Data Offset	Data Length	Purpose
0	a	a	-1	0	-1	0
0	a	b	-1	0	-1	0
0	a	d	-1	0	-1	0
0	b	a	-1	0	-1	0
0	b	b	-1	0	-1	0
0	b	c	-1	0	-1	0
0	b	d	-1	0	-1	0
0	c	a	-1	0	-1	0
0	c	b	-1	0	-1	0
0	c	c	-1	0	-1	0

Priority: UP DOWN Add Modify Delete OK Cancel

(1) UP Button: Raise the priority.

(2) DOWN button: Lower the priority

(3) “Purpose” field for format: Displays the format purpose set in the "Barcode Format" screen.

-> “0”(Patient ID) or “1”(User Name)

- Change-points in “Barcode Format” screen
 - Setting items of “Purpose” for format has been added.

“Barcode Format” screen

- (1) Patient ID (Default): Patient ID or Accession No.
 (2) User Name: Technologist Name

* Note:

Depending on the type of barcode reader, characters may not be able to be set for “Start Character” and “Stop Character”.

In such case, set the “Barcode Type” to “Others”.

4.5. Caution

- After version upgrading, always be sure to set in the Service Utility the same priority and purpose of format as the prior version.
- If you find a format of which “2” is displayed in the “Purpose” field of “Barcode” screen after version upgrade, be sure to delete the relevant format.
 (This is because facilities that migrated from CR Console may find "2" in the field but DR-ID 300CL does not support "2".)

5. Pantomography Top Alignment Format

5.1. Overview

A blank margin appeared at the top of film when pantomography image (15cm x 30cm) was film printed. Therefore, we added formats (3 patterns) to top align images in V8.1.

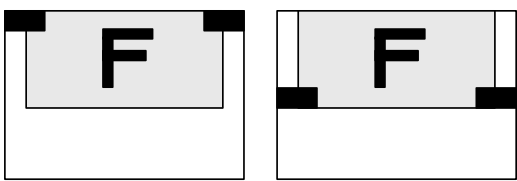
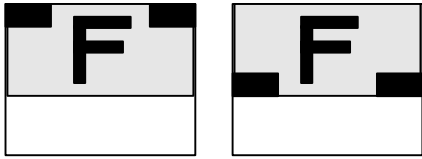
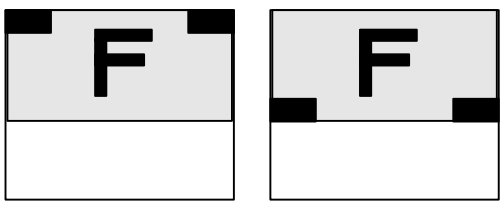
Specification of the additional format is similar to that of CR Console. Note that DR images are also subject to this format.

5.2. Option key

None

5.3. Detail

The following three patterns of top alignment format (hereinafter, expansion format) have been added.

Film Size	Format (film characters are one example)	Condition for enabling
10"x14"		<ul style="list-style-type: none"> Expansion format output to 10"x14" film is enabled Single format output
8"x10"		<ul style="list-style-type: none"> Expansion format output to 8"x10" film is enabled Reduction output to 8"x10" film is enabled Single format output
10"x12"		<ul style="list-style-type: none"> Single format output

The relation of system setting and the film format to be output.

SYSTEM CONFIG (4.PRINTER)			Output options			
64: Enable Rадuce to 8x10 Film	88: 15x30 ExFormat For 14x10 Film	89: 15x30 ExFormat For 10x8 Film	1st option	2nd option	3rd option	4th option
Yes	Yes	Yes	8"x10" (ExFormat)	10"x12" (ExFormat)	10"x14" (ExFormat)	14"x17"
	Yes	No	10"x12" (ExFormat)	10"x14" (ExFormat)	8"x10"	14"x17"
	No	Yes	8"x10" (ExFormat)	10"x12" (ExFormat)	10"x14"	14"x17"
	No	No	10"x12"	8"x10"	10"x14"	14"x17"

			(ExFormat)			
No	Yes	Yes(Invalid)	10"x12" (ExFormat)	10"x14" (ExFormat)	14"x17"	
	Yes	No	10"x12" (ExFormat)	10"x14" (ExFormat)	14"x17"	
	No	Yes(Invalid)	10"x12" (ExFormat)	10"x14"	14"x17"	
	No	No	10"x12" (ExFormat)	10"x14"	14"x17"	

5.4. Setting Procedures

5.4.1. Service Utility Settings

The following setting has been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[4.PRINTER]

No.	Category	Name	Area(☉:Default)	Comment
88	G.02.34	15x30 ExFormat For 14x10 Film	Yes ☉No	Whether or not to output expansion format to 10"x14" film
89	G.02.35	15x30 ExFormat For 10x8 Film	Yes ☉No	Whether or not to output expansion format to 8"x10"film

5.4.2. User Utility Settings

None

5.5. Caution

None

6. Changing Radiation Field with Smart Controller

6.1. Overview

The Radiation field information can now be changed with Smart controller in V8.1.

6.2. Option key

When using Smart controller function, be sure to apply the option key of the existing Smart controller function.

6.3. Detail

The following functions have been added to the Smart controller.

- Displaying the Radiation field information on the exposure menu

Displays the following Radiation field information that is set in the exposure menu.

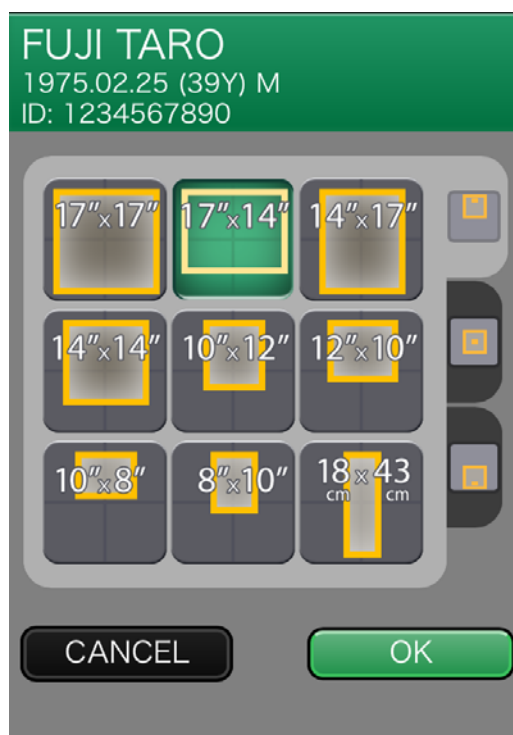
- Radiation field size
- Exposure standard position
- Exposure orientation (expressed by length and width of display size)

Radiation field information column



- Changing the Radiation field information

The Radiation field information of arbitrary unexposed menu can be changed with the Smart controller. The following Radiation field change dialog appears when an unexposed menu is selected and the Radiation field information column is clicked. The Radiation field size, orientation and exposure standard position can be set in the Radiation field change dialog.



6.4. Setting Procedures

6.4.1. Service Utility Settings

None

6.4.2. User Utility Settings

None

6.5. Caution

- Equivalent to the Radiation field setting in Console, the range of selectable Radiation field information that can be set with Smart controller differs depending on technique/function.
- Equivalent to the Radiation field settings in Console, the Radiation field settings of the following menu cannot be changed. When Radiation field setting is tried to be changed, a message indicating that change cannot be performed appears.
 - IP registered menu
 - A split stitch exposure menu
- The Radiation field setting of Console and Smart controller become synchronized. (When setting of Console is changed, the changed contents are reflected to Smart controller. When setting of Smart controller is changed, the changed contents are reflected to Console.)

7. Copy Image

7.1. Overview

Exposed image can be copied to the non-exposed menu.

The terms used in this section are as follows.

Term	Definition
Copy image	A newly created image by copy operation
Copy source image	The source image of the copy image. The image displayed on the image display region upon copy operation.
Copy destination menu	Exposure menu applicable to the copy destination The non-exposed menu selected during copy operation.

7.2. Option key

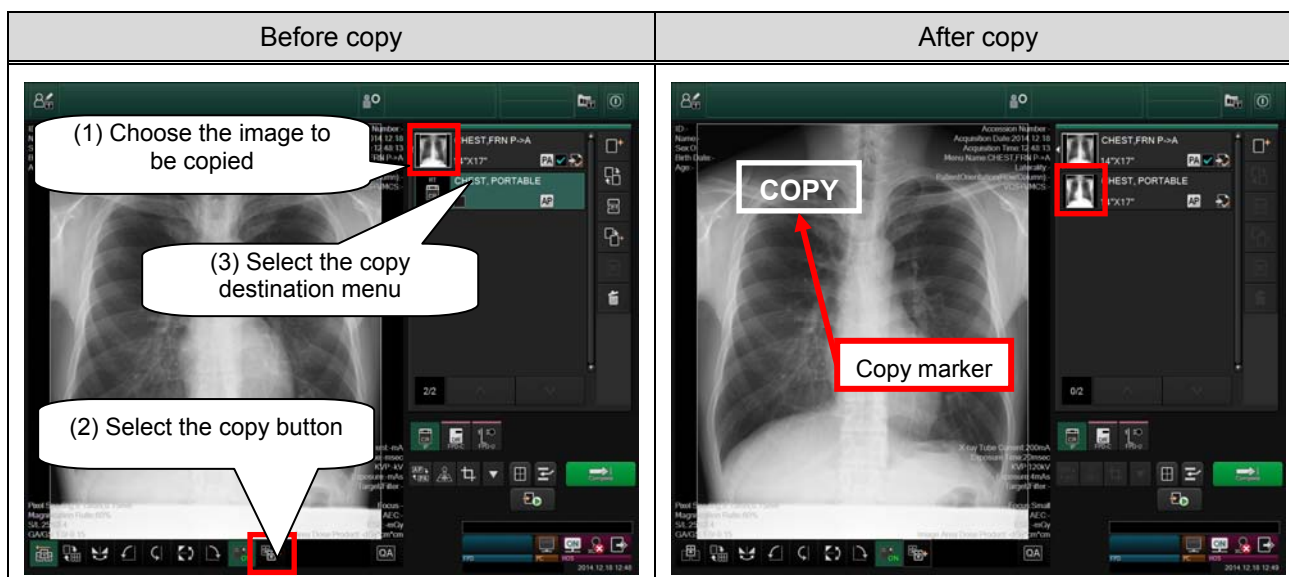
None

7.3. Detail

"Duplication of an image" button can be located as QA shortcut button and image can be copied according to the following procedure.

("Duplication of an image" button can be located on the image region operation area of Mobile spec wide GUI.)

* See "7.4.2. User Utility Settings" for shortcut button location.



- Copy marker

When image is copied, "Copy marker" is displayed on the copied image.

The initial value of the color and display position of copy marker can be set in the service settings.

* See "7.4.3. Service Utility Settings" for copy marker settings.

The following operation can be performed for the copy marker in the QA marker setting window.

- Position adjustment

- Color change
 - Rotate/Reverse
- Precautions when copying images

If the copy destination menu meets either of the following conditions, image cannot be copied.

- Exposed
- IP registered

Menus that can be specified to the copy source or copy destination are only the following functions.

- RT
- TM
- PS

Processings applied to the copy image (whether to inherit the copy source processing or apply the copy destination processing) is as follows.

* ○: Inherit source △: Conform to User Utility settings

Category	Items	Copy source	Copy destination	Remarks
Device correction	FPD device correction	○		
GPR	GPR	○		
Exposure parameter	Rotate/Reverse		○	
	EDR		○	
	Function		○	
	Filing mode		○	
	Radiation field size/ standard position	○		
	Distribution code		○	
	Image pixel density (for CR exposure)		○	
	Film format		○	
	Film output count		○	
	X-ray tube/Technique code	○		
	Eit *for DI warning		○	
	Image position (center/right-justified/left-justified)		○	
	Film character string		○	
	Reading sensitivity shift (for CR exposure)		○	
	Film standard orientation		○	
Film edge		○		

	Film size		○	
	Number of division exposure	○		
	Name of code issuer		○	
	Reading mode (for CR exposure)	○		
	Sensitivity level for velocity (for CR exposure)	○		
	Fill-up density		○	
Image processing parameter	GA/GS		○	
	S/L value		○	
	FCR image processing parameter		○	
	FNC/CRF parameter		○	
	VG parameter	○		
	VGP ON/OFF		○	
	Marker/Annotation	△	△	
	Blackening processing settings	○		Auto&manual blackening region inherits that of the copy source. Only density setting applies that of the copy destination.
	Chest wall region fill	○		
	Trimming settings	△	△	
DX parameter	Arbitrary angle rotation	○		
	Image laterality/ Patient orientation		○	
	Anatomical region		○	
S/L allowable value	View code/View modifier code sequence		○	
	S/L allowable value		○	
	Left/Right reverse marker		○	
	Mis-exposure information		○	
	Mammography positioning		○	
	Smart-QA		○	
	Study information (including ID)		○	

7.4. Setting Procedures

7.4.1. Service Utility Settings

The following setting has been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[7.CONFIG OPTION]

No.	Category	Name	Area(☉:Default)	Comment
19	C.02.20	Enable Copy Image	Yes ☉No	Enable/disable the image copy function

[Setup Configuration Item]-[SYSTEM CONFIG]-[5.CSL/IDT FUNCTION]

No.	Category	Name	Area(☉:Default)	Comment
394	C.02.21	Copy Marker Position [%] (X\Y)	☉12\15 Specify in xxx\yyy format. Maximum up to 7 digits.	Copy marker embedded position. Specify the marker center in percentage based on the relative position of X and Y axis within the trimming frame. *Up-left is the original point. 0 to 100 is divided with "\" mark. The former figure is the setting for the X axis relative position while the latter is that of Y axis.
395	C.02.22	Copy Marker Color (Fore Color-Back Color)	0:White-Black ☉1:White-Clear 2:Black-White 3:Black-Clear	Color setting for character/background of copy marker

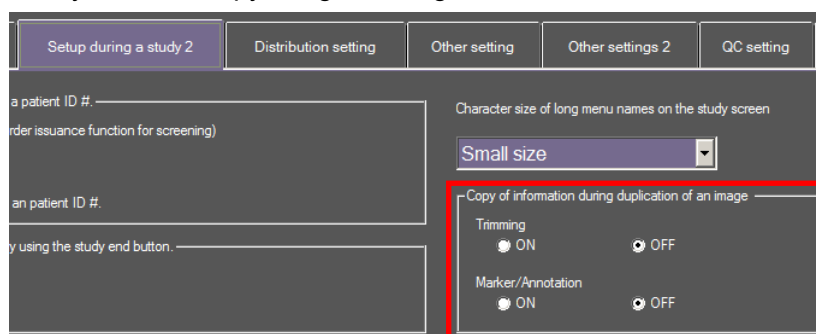
The copy marker “CopyMarker.bmp” becomes installed in “C:\Program Files\FujiFilm\IIP\Config” folder. As done with usual markers, edit the copy marker according to customer requirement. Edit method is same as usual marker.

7.4.2. User Utility Settings

Whether or not to inherit the information of trimming and marker annotation from the copy source to the copy image is set per item.

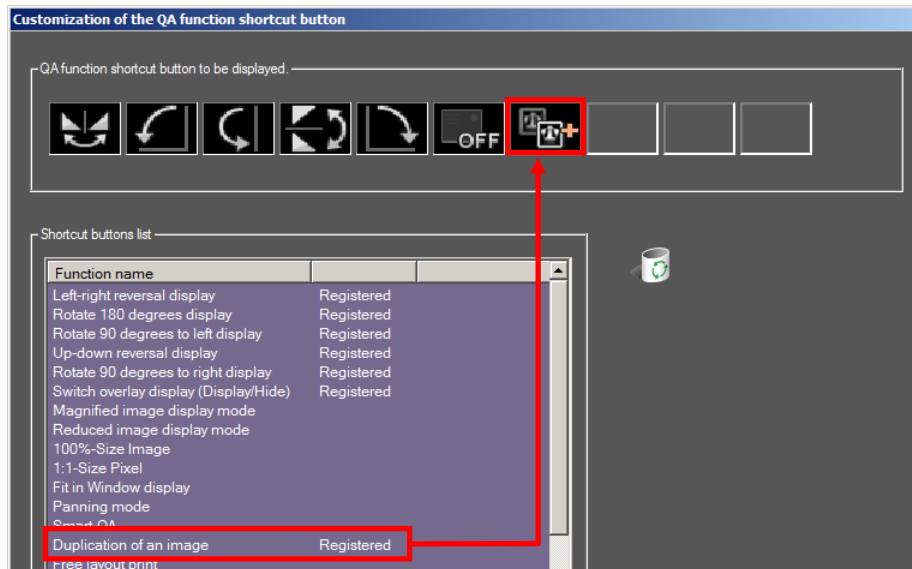
The following setting has been added to “Property Setting”->“Setup during a study2” screen.

*Be sure that Service Utility “Enable Copy Image” setting is enabled.



“Customizing the screen display”->“Customization of the QA function shortcut button” screen. Set the “Duplication of an image” button to enable or disable.

*Be sure that Service Utility “Enable Copy Image” setting is enabled.



For wide GUI of mobile spec, “Duplication of an image” button can be displayed/hidden from “Customizing the screen display”->“image region operation customization” screen. (Figure of image is omitted since it is same as QA shortcut).

7.5. Caution

- Image cannot be copied during six-image display mode.
- Exposure results are outside the scope of copy. The exposure results tag of copy image becomes empty.
- If menu of which exposure results are linked is specified as the copy destination, the combination of result and image becomes inadequate.
- Copy processing cannot be canceled. Therefore, specify the mis-copied image as mis-exposure.
- As like normal marker, copy marker is not subject to Service Utility backup/restore.

8. Applying Virtual Grid Processing According to Grid Usage Status

8.1. Overview

Up until V8.0, once Virtual Grid function is activated, this function becomes applied to images that actually do not require such function, which results in an image with contrast too high. In order to improve the above issue, the following has been implemented in V8.1.

- Enabled to set Virtual Grid function active/inactive per selector.
(Under the assumption of moving grid system (DR system))
- Enabled Virtual Grid function to be turned OFF automatically according to the image analysis.
(Under the assumption of stationary grid system (DR cassette))

Also enabled VGP parameter to be adjusted on image even when Virtual Grid function is OFF. This is in response to the request from a joint study site. (This setting shall be opened only to joint study sites)

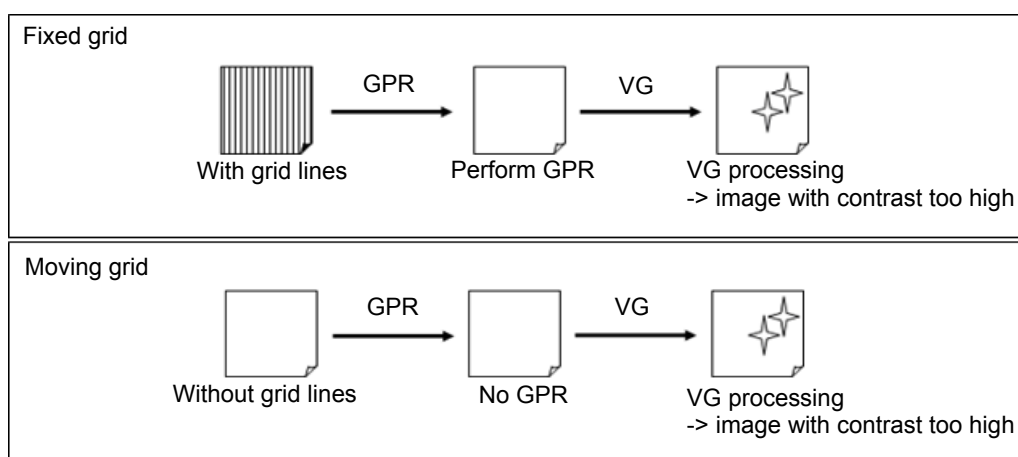
8.2. Option key

When using Virtual Grid function, be sure to apply the option key of the existing Virtual Grid function.

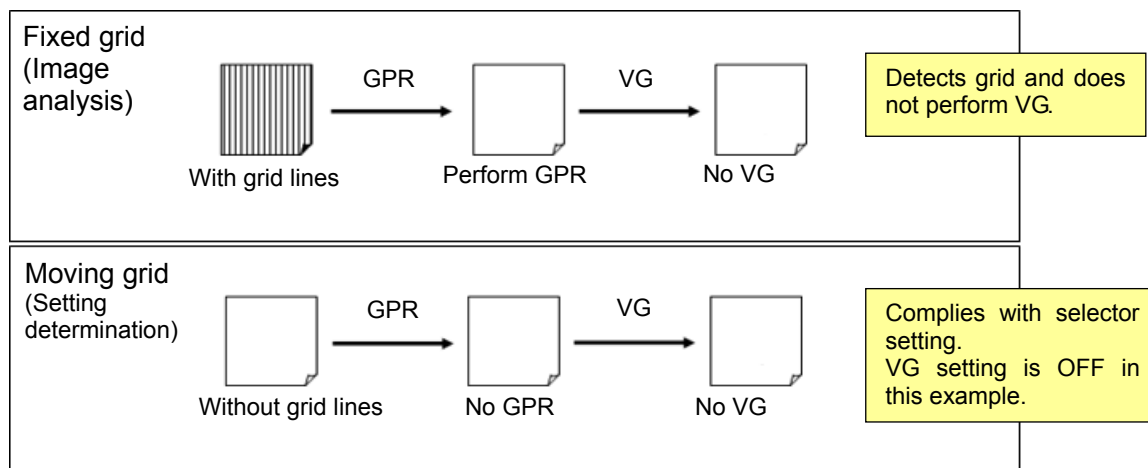
8.3. Detail

The difference of Virtual Grid processing flow between V8.0 and V8.1 is as follows.

■ Processing flow in V8.0



■ Processing flow in V8.1



8.4. Setting Procedures

8.4.1. Service Utility Settings

The following settings (1) and (2) have been added.

■ Setting (1)

[Setup Configuration Item]-[SYSTEM CONFIG]-[7.CONFIG OPTION]

No.	Category	Name	Area(<input checked="" type="radio"/> :Default)	Comment
356	C.03.23	Enable Virtual Grid Editing when use X-ray Grid	Yes <input checked="" type="radio"/> No	Whether or not to allow VG edit on QA screen. * For normal facilities, configure this setting to "No". For co-research sites, set it to "Yes", as needed.

The relation between the display status of QA VGP adjustment button and the above settings is as follows.

Condition						Display status	
Option	Setting to activate VG function	Image type	Technique	Whether or not to apply VG processing (*1)	Setting (1)	VGP	mAs[VG]/kv[VG]
None	-	-	-	-	-	Hide	Hide
Yes	OFF	-	-	-	-		
	ON	CR image	WS,ES,TO	-	-	Display active	Display VGP ON: Active VGP OFF: Inactive
			DR image	Other than above	Yes		
		No			No	Display inactive	Display inactive

*1: Whether or not to apply VG processing with option key or service settings (including the below new "Settings(2)")

■ Setting (2)

Virtual Grid function can be activated/inactivated per exposure device. (Default is On)

This setting becomes activated when the following conditions are met for the selector settings.

- TechniqueCode is not "-1".

The setting criteria is as follows.

- In the case of moving grid device (such as system DR), set to Off.

- In the case of stationary grid device (such as DR cassette), set to On.

The image shows a 'Selector Setting' dialog box with several tabs at the top: Selector 7, Selector 8, Selector 9, Selector 10, Selector 11, and Selector 12. The 'Selector 1' tab is active. The dialog contains the following fields and controls:

- Technique Code[-1:Undefined,0-39]: A numeric input field with the value '1'.
- hostName: A dropdown menu with 'fpd0' selected.
- ReaderType: A dropdown menu with 'FPD-C' selected.
- Caption: A text input field with 'FPDC'.
- IconType: A 'Select' button and a small image of a DR cassette.
- Device Name: A dropdown menu with 'AXIS' selected.
- Tube Number: A dropdown menu.
- Enable Virtual Grid: A radio button group with 'On' selected (highlighted by a red box).
- Shot Ready Notification: A radio button group with 'On' selected.
- InitialActiveButton: A radio button group with 'InitialActiveButton' selected.

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

*This function does not apply to Studies imported from media. Therefore, be sure to turn OFF the VG function in the QA screen if needed.

8.4.2. User Utility Settings

None

8.5. Caution

None

9. IBA-Designed DAP Connection

9.1. Overview

Connection with IBA-designed DAP (KermaX plus) is supported from V8.1 onward.

9.2. Option key

None

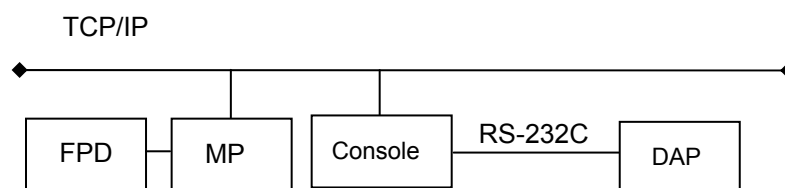
9.3. Detail

■ Connection configuration

How to connect with IBA-designed DAP is as follows.

Item	Detail
Connection protocol	Special IF protocol (*)
Connection hardware	RS-232C half duplex asynchronous communication method
Connection method	RS-232C (direct connection)

*Comply with "KermaX plus Model 120-131 HS/RS485 Interface Description"



■ Reading the area dose

The timing to read the area dose is as follows. *No change from before.

- (1) CR cassette device:
 - N-N connection: During barcode reading
 - Barcode-less connection : During cassette insertion
- (2) CR built-in type device and DR exposure device: During X-ray shot

9.4. Setting Procedures

This section only describes the difference compared to the conventional DAP connection settings.

9.4.1. Service Utility Settings

The following setting has been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[5.CSL/IDT FUNCTION]

No.	Category	Name	Area(☉:Default)	Comment
396	B.05.10	DAP Device Type	☉0: VacuDAP 1: IBA	Setting of DAP connection model type. When connecting to VacuDAP, set to "VacuDAP". When connecting to IBA-designed DAP, set to "IBA".

The following options for the setting item have been added.

[Setup Configuration Item]-[SYSTEM CONFIG]-[5.CSL/IDT FUNCTION]

No.	Category	Name	Area(☉:Default)	Comment
397	B.05.8	DAP Serial_TX Baudrate	0:1200 1:2400 2:4800 ☉3:9600 4:14400 5:19200 6:38400	Setting of DAP serial forwarding rate No.4,5 and 6 are added items in V8.1. When connecting to IBA-designed DAP, set to "6 : 38400".

9.4.2. User Utility Settings

None

9.5. Caution

- Mobile specifications do not support this function.
- Only one DAP is connectable. When this connection is performed, other DAPs cannot be connected concurrently.
- It is described in the IBA connection specifications that in order to measure a result with thorough precision, 15- minutes-warm-up upon DAP startup is required. When connecting to an IBA-designed DAP, be sure to receive an explanation on the startup procedure from the IBA person in charge.

10. Expansion of Exposure Result/mis-Exposure Log

10.1. Overview

Record contents of exposure result log and mis-exposure log have been expanded in V8.1. (Added new items and changed the factory default of existing items).

10.2. Option key

None

10.3. Detail

The following information has been added/changed regarding exposure result and mis-exposure log.

"EntryFlag" Factory default	Tab number	Item name	Remarks
TRUE	(0018,0060)	KVP	Added in V8.1
TRUE	(0018,1110)	Distance Source to Detector	Added in V8.1
TRUE	(0018,1111)	Distance Source to Patient	Added in V8.1
TRUE	(0018,1150)	Exposure Time	Added in V8.1
TRUE	(0018,1151)	X-ray Tube Current	Factory default change
TRUE	(0018,1152)	Exposure	Factory default change
TRUE	(0018,6000)	Sensitivity	Factory default change
TRUE	(0018,8150)	Exposure Time in μ S	Added in V8.1
TRUE	(0018,8151)	X-Ray Tube Current in μ A	Added in V8.1
TRUE	(0018,700A)	Detector ID	Added in V8.1

- Added items described as above are automatically installed upon upgrading version to V8.1. Changes in factory default are also automatically made in accordance with the above definition. (For items other than the above, settings of the previous version becomes inherited during version upgrade.)
- To operate under "TRUE", user and service engineer do not need to do anything. However, to operate under "FALSE", see Service Manual "MU: Maintenance Utility"- "Appendix E Setup of Log Output Items of the Exposure Result Log Function" and perform the relevant setting.

10.4. Setting Procedures

No change from V8.0 or earlier.

10.5. Caution

No change from V8.0 or earlier.

1

11. D-EVO II small model connection

11.1. Overview

V8.1 has become connectable with the following small model in the line of second-generation cassette DR (D-EVO II).

- Device: Csl
- Size: 24cmx30cm (2430C)

11.2. Option key

None

11.3. Detail

- V8.1 is connectable with the following panels.
 - D-EVO II 2430C (DR-ID 1213SE)
- During Memory Exposure Mode, receiving up to 200 images from each panel in a lump is possible. (Up to 100 images with 14"x17" and 17"x17" panel)
- Usable Trimming sizes for each Image size are as follows.

Image size	Usable Trimming size
24cmx30cm	8"x10", 18cmx24cm, 7"x8", 7"x10", 5"x8"

- Image processing parameters for small models can be preset through User Utility like other existing panels.

11.4. Setting Procedures

11.4.1. Service Utility Settings

For small model connection, set "Device Type" of "Device Setting" to "CALNEO Smart C/D-EVO II C".

11.4.2. User Utility Settings

For setting image processing parameter while the small model is in use, set "Panel Type" of "Menu Setting"- "Exposure Parameter 1"- "Image Processing Parameter Setting" to "Csl-2"

11.5. Caution

- As the D-EVO II small model does not support Long-view exposure, its operation is restricted.

DR-ID 300CL V8.1 ECN_Appendix-D List of Changes in Conformance Statement

No changes from DR-ID 300CL V8.1 Conformance Statement.

DR-ID 300CL V8.1 ECN_Appendix-E Releasing DR-ID 300CL PPU Application Software V2.1

1. Overview

PPU Application Software V2.1 for DR-ID 300CL V8.1 or later has been released.
This ECN provides the upgrading procedure for it.

2. Released items

Product name	Part number	Media	Number of media
DR-ID 300CL PPU Application Software V2.1	114Y2150204B04	CD	1

3. Applicable version

V2.1 is applied to the following versions.

Software	Applicable version
PPU Application Software	V2.0
	V2.1 (in the case of reinstallation)

4. Changes in PPU V2.1

The new features of PPU V2.1 are as follows.

No.	Features	Details
1	Distance correction for Tomosynthesis reconstructed image	The distance between the detector and the examinee is large in Tomosynthesis exposure. Therefore, the size on the detector becomes expanded compared to the real size. This correction processing is to make the size of image close to real size by adjusting it to the size of the exposure surface during reconstruction image generation. (This correction processing is called "Distance correction".)

5. Upgrade procedure

The procedure for upgrading the PPU from V2.0 is shown below.

The same procedure also applies to reinstallation of V2.1.

- 1) Start up the PC.
- 2) Insert the "DR-ID 300CL PPU Application Software V2.1 (114Y2150204B04)" CD into the DVD drive.
- 3) The "Autoplay" dialog opens. Click "Open folder to view files".

- 4) The "114Y2150204B04(D:)" dialog opens. Double-click "Setup(.bat)".
- 5) The setup menu appears. Input "7" and press the <Enter> key. (Install/Update PPU System)
- 6) Input "1" and press the "Enter" key. (DR-ID 200)
- 7) The system returns to the setup menu. Confirm that "PPU Application installation completed" is displayed directly before the displayed menu.
- 8) Input "15" and press the <Enter> key. (Set Up Distance Correction Parameter for reconstructed image)
*Default setting is "Do not apply distance correction". This is to make the operation similar to that of the existing system.
- 9) Input "1" (Yes) to apply distance correction (display with real size) or "2" (No) when not applying distance correction. Then press the <Enter> key.
- 10) Input "1" and press the <Enter> key. (DR-ID 200)
- 11) The system returns to the setup menu. Confirm that "Set Up Distance Correction Parameter completed." is displayed directly before the displayed menu.
- 12) Input "0" and press the <Enter> key. (Quit)
- 13) Remove the CD from the DVD drive.

6. New installation procedure

Refer to DR-ID 300CL Service Manual (010-305-13E or later) for installation.

7. Confirmation procedure

- 1) Start up the PC.
- 2) Press <Ctrl>+<Shift>+<Esc> when it's up and running.
- 3) Select "Processes" tab when [Task Manager] is launched to ensure that the following processes are displayed.
 - "PPUManageProcessFrame.exe"
 - "PPUMainProcess32.exe *32"
 - "PPUMainProcess.exe"
 - "PPUMainProcess.exe"
- 4) Right-click [Start] to click "open Windows Explorer" in the menu displayed.
- 5) Move to "C:\Program Files\FujiFilm\PPU" folder and open "version.ini".
- 6) Ensure that the "PPUVersion" is V2.1 in the file opened.
- 7) Press the main power to ensure that the power of the PC is turned off.

8. Other Service Maintenance Processes

8.1. Service Maintenance List

The service maintenance processes regarding PPU are listed below.

Table 1: PPU service maintenance list

No	Item	Detail 1	Detail 2
1	Installation procedure	At the time of installation, change the default settings of PPU to those suitable for users.	At the time of installation
2	Upgrade Procedure	Upgrade the application software. Refer to 5. Upgrade procedure.	At the time of upgrading
3	Full installation procedure	Procedure starting from OS installation Refer to 6. New installation procedure.	At the time of reinstallation due to problems such as PC failure
4	PPU data initialization procedure	When initializing the UID of Console, perform data clearing of PPU. Refer to 8.3. PPU Data Initialization Procedure *Be sure to perform this procedure, or the reconstruction processing cannot be performed.	At the time of replacement of the connected Console PC or OS reinstallation
4	Time synchronization setting	When Console is synchronized with the time server, perform the time synchronization setting for PPU. Refer to 8.4. Time Synchronization Setting	When Console is synchronized with the Internet time
5	Log acquisition	It is not necessary to acquire the PPU log only as it is included in the Console log.	Abnormality analysis

8.2. Preparation

As PPU does not have its own monitor, connect the monitor used for Console to PPU for maintenance.

8.3. PPU Data Initialization Procedure

When the UID is initialized (due to PC replacement or OS reinstallation) on Console, be sure to perform the following procedure on PPU.

No	Item	Procedure
1	PPU data clearing	<ol style="list-style-type: none"> 1) Remove the LAN cable connected to PPU. 2) Insert the "DR-ID 300CL PPU Application Software V2.1 (114Y2150204B04)" CD into the DVD drive. 3) The "Autoplay" dialog opens. Click "Open folder to view files". 4) The "114Y2150204B04(D:)" dialog opens. Double-click "Setup(.bat)". 5) The setup menu appears. Input "90" and press the "Enter" key. (Execute PPU Data Clear) 6) The system returns to the setup menu. Confirm that "PPU All Data Delete completed." is displayed directly before the displayed menu. 7) Input "0" and press the "Enter" key. (Quit) 8) Remove the CD from the DVD drive.

8.4. Time Synchronization Setting

Perform the following procedure only when the Internet time synchronization setting is enabled for Console.

No.	Item	Procedure
1	Time synchronization setting	<ol style="list-style-type: none"> 1) Right-click on the clock appearing on the task bar at the lower right of the desktop and select "Adjust date/time". 2) In the "Date and Time" dialog, select the "Internet Time" tab and click "Change settings". 3) Confirm that "Synchronize with an Internet time server" is selected. 4) If the above item is not selected, tick the checkbox. 5) Enter the IP address of Console in "Server(E):". 6) Click "Update Now". 7) Confirm that the following message is displayed <p style="margin-left: 40px;">The clock was successfully synchronized with <i>IP-ADDRESS</i> on <i>DATE at TIME</i></p> <p style="margin-left: 40px;">*<i>IP-ADDRESS</i> is the IP address of Console, and <i>DATE at TIME</i> is the current time.</p>

DR-ID 300CL V8.1 ECN_Appendix-I List of Changes in System Config

The following setting items have been newly added from V8.1.

[1.IMAGE MODALITY]

No.	Category	Name	Area (☉:Default)	Comment
356	C.03.23	Enable Virtual Grid Editing when use X-ray Grid	Yes Permit ☉No Do not permit	Permit/not permit VG editing in QA screen

[4.PRINTER]

No.	Category	Name	Area (☉:Default)	Comment
88	G.02.34	15x30 ExFormat For 14x10 Film	Yes Use ☉No Do not use	Setting whether or not to use expansion format during 10"x14"film output
89	G.02.35	15x30 ExFormat For 10x8 Film	Yes Use ☉No Do not use	Setting whether or not to use expansion format during 8"x10"film output

[5.CSL/IDT FUNCTION]

No.	Category	Name	Area (☉:Default)	Comment
394	C.02.21	Copy Marker Position [%] (X\Y)	☉12\15 Specify in xxx\yyy format. Maximum seven digits.	Relative position (%) of X and Y axis that is the center point of copy marker width. Up-left as original point. Format: Divide from "0" to "100" with X and divide Y with "\".
395	C.02.22	Copy Marker Color (Fore Color-Back Color)	0:White-Black ☉1:White-Clear 2:Black-White 3:Black-Clear	Setting for color of foreground/background of copy marker
396	B.05.10	DAP Device Type	☉0:VacuDAP 1:IBA	Setting for DAP connection model type
400	E.01.20	Menu Screen Mode	☉Classic Graphical	Setting for menu option screen mode

401	B.01.50	Software Xcon IpAddress	☉127.0.0.1	Specify the software Xcon IP address. 127.0.0.1 needs to be set when installing an Xcon application to hardware equivalent to CSL.
02	B.01.51	Software Xcon Port Number	☉8010	Specify the software Xcon port number.
403	C.07.7	Display warning dialog immediately when Exposure was aborted	Yes Display immediately ☉No Do not display immediately	Whether or not to immediately notice the user when exposure is suspend during Tomosynthesis exposure. Yes for DR-ID900.No for the rest.
404	C.07.8	Tomosynthesis Reacquisition Image of PPU	☉Yes Support No Do not support	Setting whether or not to support Tomosynthesis exposure image re-sending function (PPU). Yes for DR-ID300(support), the rest shall be set according to the system configuration.

[7.CONFIG OPTION]

No.	Category	Name	Area (☉:Default)	Comment
19	C.02.20	Enable Copy Image	Yes Enable ☉No Disable	Enable/disable of image copy function
20	C.02.13	Enable Free Layout Print In Study	Yes Enable ☉No Disable	Enable/disable of Free layout print function during Study.
21	C.13.24	Enable QA Measurement	Yes Enable ☉No Disable	Enable/disable of distance angle measurement