# **TOSHIBA**

### **DICOM CONFORMANCE STATEMENT**

# STORAGE SCU FOR TOSHIBA DIGITAL FLUOROGRAPHY SYSTEM

**MODEL DFP-2000A** 

with XIDF-053A or XIDF-056A

(MIIXR0001EAB)

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#### 1 Introduction

This document is a DICOM Conformance Statement for Toshiba's Digital Fluorography Systems. It is intended to provide the reader with the knowledge of how to integrate this product within a DICOM compliant hospital network. It details the DICOM Service Classes, Information Objects, and Communication Protocols which are supported by this product.

If the reader is unfamiliar with DICOM, it is recommended that they read the DICOM Specification (referenced below) prior to reading this conformance statement. Also note that this document is formatted according to the DICOM Specification, Part 2: Conformance.

#### 1.1 References

ACR-NEMA Digital Imaging and Communications in Medicine, DICOM V3.0.

#### 1.2 Definitions

- Association Establishment An Association Establishment is the first phase of communication between two DICOM Application Entities. The AEs use the Association Establishment to negotiate how data will be encoded and the type of data to be exchanged.
- Called Application Entity Title The Called AE Title defines the intended receiver of an Association.
- Calling Application Entity Title The Calling AE Title defines the requester of an Association.
- **DICOM Message Service Element (DIMSE)** A DIMSE defines the services and protocols utilized by an Application Entity to exchange messages.
- Information Object Definition (IOD) An IOD is a data model which is an abstraction of real-world information. This data model defines the nature and attributes relevant to the class of real-world objects represented.
- Service Class Provider (SCP) A Service Class Provider plays the "server" role to perform operations and invoke notifications during an Association. An example of a Storage Service Class Provider would be an image storage device. In this case, the image storage device is storing the image that was sent by a Service Class User.
- Service Class User (SCU) A Service Class User plays the "client" role to invoke operations
  and perform notifications during an Association. An example of a Storage Service Class User
  would be an image acquisition device. In this case, the image acquisition device will create
  and send a DICOM image by requesting that a Service Class Provider store that image.
- Service/Object Pair (SOP) Class A SOP Class is defined by the union of an Information
   Object Definition and a set of DIMSE Services. A DICOM Application Entity may support one
   or more SOP Classes. Each SOP Class is uniquely identified by a SOP Class UID.
- SOP Instance A specific occurrence of a Information Object.
- Transfer Syntax The Transfer Syntax is a set of encoding rules that allow DICOM
   Application Entities to negotiate the encoding techniques (e.g. data element structure, byte
   ordering, compression) they are able to support. The Transfer Syntax is negotiated during
   Association Negotiation.
- Unique Identifier (UID) A Unique Identifier is a globally unique, ISO compliant, ASCII-numeric string. It guarantees uniqueness across multiple countries, sites, vendors and equipment.

# 1.3 Acronyms, Abbreviations and Symbols

ACC American College of Cardiology

ACR American College of Radiology

ASCII American Standard Code for Information Interchange

AE Application Entity

ANSI American National Standards Institute

CEN TC251 Comite Europeen de Normalisation - Technical Committee 251 - Medical

Informatics

DICOM Digital Imaging and Communications in Medicine

DIMSE DICOM Message Service Element

DIMSE-C DICOM Message Service Element - Composite
 DIMSE-N DICOM Message Service Element - Normalized

HIS Hospital Information System

HL7 Health Level 7

• IE Information Entity

• IOD Information Object Definition

• ISO International Standards Organization

JIRA Japan Industries Association of Radiological Systems

NEMA National Electrical Manufacturers Association

OSI Open Systems Interconnection

PDU Protocol Data Unit

RIS Radiology Information System

SCP Service Class Provider
 SCU Service Class User
 SOP Service-Object Pair

• TCP/IP Transmission Control Protocol/Internet Protocol

• UID Unique Identifier

## 2 Implementation Model

### 2.1 Application Data Flow Diagram

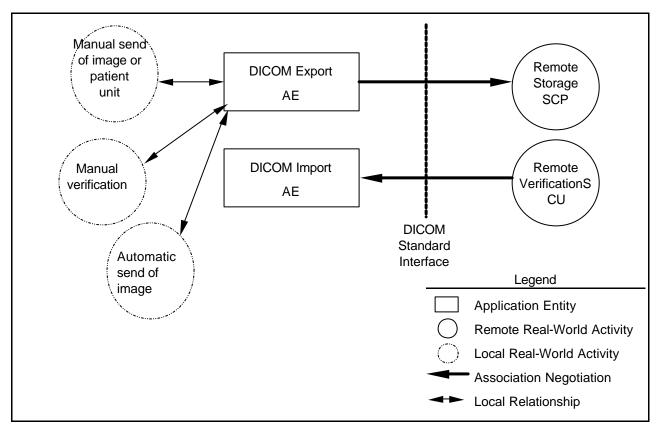


Figure 1

#### 2.2 Functional Definitions of AE's

#### 2.2.1 Export AE

Export AE is used to transmit images to a remote DICOM device. It therefore performs the following tasks:

- Builds DICOM XA Information Objects
- Establishes DICOM Association with remote DICOM device
- Performs storage of DICOM XA Information Objects to remote DICOM device

Export AE is used to verify that a remote DICOM device is active on the network. It therefore performs the following tasks:

- Establishes DICOM Association with remote DICOM device
- Performs verification of a remote DICOM device's presence on network

### 2.2.2 Import AE

Import AE is used to respond to requests to verify that the Digital Fluorography System is present and active on the network.

### 2.3 Sequencing of Real World Activities

#### 2.3.1 Features

#### 2.3.1.1 Manual send of image or patient unit

- Operator requests to send images after selecting the transferred images from the Patient List or from the Image List.
- When the image transfer fails, operator can manually attempt to resend the image at a later time.

#### 2.3.1.2 Manual verification

Operator can request verification manually on troubleshooting.

#### 2.3.1.3 Automatic send of image

- The image is automatically transferred after the acquisition is performed.
- The image transferring is canceled if other acquisition is started.

#### 2.3.2 Operation

#### 2.3.2.1 Manual send of image or patient unit

- The operation for manual image transferring is described below:
  - STEP-1: Select the destination of image transfer.
  - STEP-2: Select the images or the patient to be transferred.
  - STEP-3: Request transfer.

#### 2.3.2.2 Manual verification

- The operation for manual verification is described below:
  - STEP-1: Select the destination of verification.
  - STEP-2: Request verification.

#### 2.3.2.3 Automatic send of image

No manual operation is needed.

### **AE Specifications**

#### 3.1 **Export Specification**

Export AE provides Standard Conformance to the following DICOM SOP Classes as an SCU:

Table 1				
SOP Class Name	SOP Class UID			
Verification	1.2.840.10008.1.1			
XA Image Storage	1.2.840.10008.5.1.4.1.1.12.1			

#### 3.1.1 **Export Association Establishment Policies**

#### 3.1.1.1 **Export General**

Export AE will utilize and understand the following Application Context Name:

Table 2			
DICOM V3.0 Application Context	1.2.840.10008.3.1.1.1		

Export AE supports a minimum PDU size of 8Kbytes and a maximum PDU size of 32Kbytes. The default value is set to 16Kbytes.

#### **Export Number of Associations** 3.1.1.2

Export AE can only establish one association at a time, independent of the number of destinations chosen.

#### 3.1.1.3 **Export Asynchronous Nature**

Export AE allows a single outstanding operation on any association. Therefore, Export AE does not support asynchronous operations window negotiation, other than the default as specified by the DICOM specification.

TM XA DCM V12

#### 3.1.1.4 **Export Implementation Identifying Information**

Export AE will specify the following Implementation Identifying Information:

Implementation Class UID 1.2.392.200036.9116.31 Implementation Version Name

#### 3.1.2 **Export Association Initiation by Real-World Activity**

Export AE initiates an association for the following activity:

- "Manual send of image or patient unit"
  - Storage - Create and store an XA image to a remote DICOM device
- "Automatic send of image"
  - Storage - Create and store an XA image to a remote DICOM device
- "Manual verification"
  - Verification Verify that a remote DICOM device is present on the network Verification is initiated manually.

#### 3.1.2.1 Export Real-World Activity - Storage

#### 3.1.2.1.1 Export Associated Real-World Activity - Storage

Storage is executed by the Digital Fluorography System after the operator requests the image transfer.

#### 3.1.2.1.2 Export Proposed Presentation Contexts - Storage

Export AE proposes the following Presentation Contexts shown below:

For single frame image, "Implicit VR Little Endian" is always used.

For multi frame image, either "Implicit VR Little Endian" or "Lossless JPEG" is used.

Table 3

Presentation Context Table							
	Abstract Syntax Transfer Syntax						
Name UID		Name List	UID List	Role	Negotiation		
XA Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
XA Image Storage	1.2.840.10008.5.1.4.1.1.12.1	*1	1.2.840.10008.1.2.4.70	SCU	None		

<sup>\*1:</sup>JPEG Lossless (Process 14 [Selection Value1])

#### 3.1.2.1.2.1 Export SOP Specific Conformance - XA Image Storage

Export AE operation involves the following sequence of steps for each image transfer.

- (1) Association establishment (requester only)
- (2) Data transfer(SCU only)
- (3) Association release (requester only)

Export AE judges that the transfer of one image succeeded when the result of (2) "Data transfer" is "Success" even if the result of (3) "Association release" is "Failure". X-ray Angiographic Information Object Define is described in chapter 8.

#### 3.1.2.2 Export Real-World Activity - Verification

#### 3.1.2.2.1 Export Associated Real-World Activity - Verification

Verification is executed by the Digital Fluorography System after the operator selects a destination.

#### 3.1.2.2.2 Export Proposed Presentation Contexts - Verification

Export AE proposes the following Presentation Contexts shown below:

Table 4

Tuble 4							
	Presentation Context Table						
	Abstract Syntax	Tr	ansfer Syntax		Extended		
Name UID		Name List	UID List	Role	Negotiation		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		

#### 3.1.3 Export Association Acceptance Policy

Export AE does not accept any associations generated by remote applications.

#### 3.2 Import Specification

Import AE provides Standard Conformance to the following DICOM SOP Classes as an SCP:

Table 5

SOP Class Name	SOP Class UID
Verification	1.2.840.10008.1.1

#### 3.2.1 Import Association Establishment Policies

## 3.2.1.1 Import General

Import AE will utilize and understand the following Application Context Name:

Table 6	
DICOM V3.0 Application Context	1.2.840.10008.3.1.1.1

Import AE supports a minimum PDU size of 8Kbytes and a maximum PDU size of 32Kbytes. The default value is set to 16Kbytes.

#### 3.2.1.2 Import Number of Associations

Import AE supports only one association at a time.

#### 3.2.1.3 Import Asynchronous Nature

Import AE allows a single outstanding operation on any association. Therefore, Import AE does not support asynchronous operations window negotiation, other than the default as specified by the DICOM specification.

#### 3.2.1.4 Import Implementation Identifying Information

Import AE will specify the following Implementation Identifying Information:

Implementation Class UID 1.2.392.200036.9116.31

• Implementation Version Name TM\_XA\_DCM\_V12

#### 3.2.2 Import Association Initiation by Real-World Activity

Import AE never initiates an association.

#### 3.2.3 Import Association Acceptance Policy

When Import AE receives an association request, it will allow the following activities to be performed during that association:

Verification
 - Allow a remote DICOM device to verify that the Digital

Fluorography System is active on the DICOM network.

### 3.2.3.1 Import Real-World Activity - Verification

#### 3.2.3.1.1 Import Associated Real-World Activity - Verification

The Digital Fluorography System responds to Verification made by a remote Verification SCU.

#### 3.2.3.1.2 Import Presentation Context Table - Verification

Import AE accepts all of the Presentation Contexts shown below:

Table 7

Presentation Context Table						
Abstract Syntax Transfer Syntax					Extended	
Name UID		Name List	UID List	Role	Negotiation	
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None	

#### 3.2.3.1.2.1 Import SOP Specific Conformance - Verification

Import AE responds with the following status codes in response to a C-ECHO request.

Table 8

Service Status	Further Meaning	Protocol Codes	Description
Success	Success	0x0000	Operation performed properly

#### 3.2.3.1.3 Import Presentation Context Acceptance Criterion- Verification

Import AE accepts the Presentation Contexts listed in the Presentation Context Table(Table 7).

### 3.2.3.1.4 Import Transfer Syntax Selection Policies- Verification

Import AE supports only the Implicit VR Little Endian transfer syntax. It rejects any proposed Presentation Context which does not specify the default Implicit VR Little Endian transfer syntax.

### 4 Communication Profiles

### 4.1 Supported Communication Stacks

This product provides DICOM TCP/IP Network Communication Support as defined in Part 8 of the DICOM Standard.

#### 4.2 OSI Stack

Not applicable to this product.

#### 4.3 TCP/IP Stack

This product inherits its TCP/IP stack from the computer system upon which it executes.

#### 4.3.1 API

Not applicable to this product.

#### 4.3.2 Physical Media Support

This product is indifferent to the physical medium over which TCP/IP executes; it inherits the medium from the computer system upon which it executes.

#### 4.4 Point-to-Point Stack

Not applicable to this product.

# 5 Extensions/Specializations/Privatizations

Not applicable to this product.

# 6 Configuration

For the Digital Fluorography System, the configurations can be set.

Note: Settings and changes are performed by Toshiba Service Personnel at the time of installation of the Digital Fluorography System.

#### 6.1 AE Title/Presentation Address Mapping

Mapping from the AE titles to the presentation address is as follows:

- One port number and one AE title can be described for one host name
- Each AE title is mapped to one port number

The Digital Fluorography system default value is as follows:

- Local port No. 5000
- Local AE Title TM\_XA\_DCM\_V12

### **6.2 Configurable Parameters**

#### 6.2.1 Time-out Value, Retry Count, Retry Interval

The time-out value, retry count, and retry interval in each status are shown below:

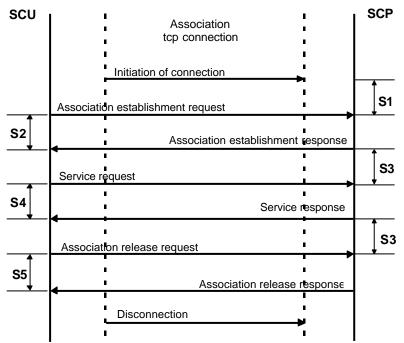


Figure 2

Table 9

Item	Status	Time-out Value	Retry Count	Retry Interval	Remarks
S1	Association	default:	Not set	Not set	Only one parameter
	establishment request waiting time	30 seconds			can be set in the Digital Fluorography
	3	range:			System.
		1 to 999999			
S2	Association	default:	default :	default:	Only one parameter
	establishment response waiting time	30 seconds	Once	30 seconds	can be set in the Digital Fluorography
		range:	range:	range:	System.
		1 to 999999	0 to 999999	0 to 999999	
S3	Service request waiting	default:	Not set	Not set	Only one parameter
	time	180 seconds range:			can be set in the Digital Fluorography System.
		1 to 999999			- <b>,</b>
S4	Service response	default:	Not set	Not set	Only one parameter
	waiting time	180 seconds range:			can be set in the Digital Fluorography System.
		1 to 999999			
S5	Association release waiting time	default:	Not set	Not set	Only one parameter
		5 seconds range:			can be set in the Digital Fluorography System.
		1 to 999999			

# 6.2.2 Warning Status Criteria

The warning status criteria can be set for each station and each service.

### 6.2.2.1 XA Image Storage Response

If SUCCESS is set, the Digital Fluorography System judges that the image transfer succeeded.  $\label{eq:succeeded}$ 

If FAIL is set, the Digital Fluorography System judges that the image transfer failed.

Table 10

Warning Response Item	Default Value	Parameter setting			
Coercion of Data Set	FAIL	SUCCESS or FAIL			
Data Set does not match SOP Class	FAIL	SUCCESS or FAIL			
Element discard	FAIL	SUCCESS or FAIL			

### 6.3 Implementation Information and Maximum Reception PDU Size

The default values for the Digital Fluorography System are used for the Implementation Class UID, the Implementation Version name, and the Maximum length received. They cannot be changed.

Table 11

Parameter	Default
Implementation Class UID	1.2.392.200036.9116.31
Implementation Version Name	TM_XA_DCM_V12
Maximum length received(unit:byte)	0x4000

### 6.4 Default Transfer Syntax

In XA image storage, the Digital Fluorography System performs the transfer using the following setting.

Default value = "Implicit VR Little Endian" for single frame image or uncompressed image

Default value = "Lossless JPEG" for compressed multi-frame image

# 7 Support of Extended Character Sets

This product supports the following character sets:

	Table 12				
•	ISO-IR 6 (default)	Basic G0 Set			

# 8 X-Ray Angiographic Information Object Definition

## 8.1 Entity Module Definitions

The information modules for the X-Ray Angiographic devices are defined below.

### 8.1.1 XA IOD Modules

Table 13

Information Entity	Module	Reference	Usage <sup>1</sup>
Patient	Patient Module	8.2.1	М
Study	General Study Module	8.2.2	М
Study	Patient Study Module	8.2.3	U
Series	General Series Module	8.2.4	М
Equipment	General Equipment Module	8.2.5	М
Image	General Image Module	8.2.6	М
Image	Image Pixel Module	8.2.7	М
Image	Contrast/bolus Module	8.2.8	С
Image	Cine Module	8.2.9	С
Image	Multi-frame Module	8.2.10	С
Image	Frame Pointers Module	Not Used	U
Image	Mask Module	Not Used	С
Image	Display Shutter Module	Not Used	U
Image	Device Module	Not Used	U
Image	Therapy Module	Not Used	U
Image	X-ray Image Module	8.2.11	М
Image	X-ray Acquisition Module	8.2.12	М
Image	X-ray Collimator Module	Not Used	U
Image	X-ray Table Module	Not Used	С
Image	XA Positioner Module	8.2.13	М
Image	Overlay Plane Module	8.2.14	U
Image	Multi-Frame Overlay Module	Not Used	С
Image	Curve Module	Not Used	U
Image	Modality LUT Module	Not Used	C/U
Image	VOI LUT Module	8.2.15	U
Image	SOP Common Module	8.2.16	М

<sup>&</sup>lt;sup>1</sup> M=Mandatory, C=Conditional, U=User option

# 8.2 Information Object Definitions

## 8.2.1 Patient Module

Table 14

Attribute Name	Tag	Туре	Attribute Description
Patient's Name	(0010, 0010)	2	Always set except for urgent patient
Patient ID	(0010, 0020)	2	Always set
Patient's Birth Date	(0010, 0030)	2	Length=0 when no entry is made
Patient's Sex	(0010, 0040)	2	Always set
Patient's Comments	(0010, 4000)	3	Length=0 when no entry is made

## 8.2.2 General Study Module

Table 15

Attribute Name	Tag	Туре	Attribute Description
Study Instance UID	(0020, 000D)	1	Always set
Study Date	(0008, 0020)	2	Always set
Study Time	(0008, 0030)	2	Always set
Referring Physician's Name	(0008, 0090)	2	Length=0 when no entry is made
Study ID	(0020, 0010)	2	Always set
Accession Number	(0008, 0050)	2	Length=0 when no entry is made
Study Description	(0008, 1030)	3	Length=0 when no entry is made

# 8.2.3 Patient Study Module

Table 16

Attribute Name	Tag	Туре	Attribute Description
Patient's Size	(0010, 1020)	3	Length=0 when no entry is made
Patient's Weight	(0010, 1030)	3	Length=0 when no entry is made

### 8.2.4 General Series Module

Table 17

14510 17					
Attribute Name	Tag	Туре	Attribute Description		
Modality	(0008, 0060)	1	Always set ("XA")		
Series Instance UID	(0020, 000E)	1	Always set		
Series Number	(0020, 0011)	2	Always set		
Series Date	(0008, 0021)	3	Always set		
Series Time	(0008, 0031)	3	Always set		
Performing Physician's Name	(0008, 1050)	3	Length=0 when no entry is made		
Series Description	(0008,103E)	3	Always set		

# 8.2.5 General Equipment Module

Table 18

14510 10				
Attribute Name	Tag	Туре	Attribute Description	
Manufacturer	(0008, 0070)	2	Always set("TOSHIBA_MEC")	
Institution Name	(0008, 0080)	3	Always set	
Institution Address	(0008,0081)	3	Always set	
Station Name	(0008, 1010)	3	Always set	
Manufacturer's Model Name	(0008, 1090)	3	Always set	
Device Serial Number	(0018, 1000)	3	Always set	
Software Versions	(0018, 1020)	3	Always set	

# 8.2.6 General Image Module

Table 19

Attribute Name	Tag	Туре	Attribute Description
Image Number	(0020, 0013)	2	Always set
Patient Orientation	(0020, 0020)	2C	Always Length=0
Image Date	(0008, 0023)	2C	Always set
Image Time	(0008, 0033)	2C	Always set
Image Type	(0008, 0008)	3	Always set
Acquisition Date	(0008, 0022)	3	Always set
Acquisition Time	(0008, 0032)	3	Always set
Image Comments	(0020, 4000)	3	Length=0 when no entry is made

# 8.2.7 Image Pixel Module

Table 20

140.0 20				
Attribute Name	Tag	Туре	Attribute Description	
Samples per Pixel	(0028, 0002)	1	Always set(0x0001)	
Photometric Interpretation	(0028, 0004)	1	Always set("MONOCHROME2")	
Rows	(0028, 0010)	1	Always set(0x0400 or 0x0200)	
Columns	(0028, 0011)	1	Always set(0x0400 or 0x0200)	
Bits Allocated	(0028, 0100)	1	Always set(0x0010 or 0x0008)	
Bits Stored	(0028, 0101)	1	Always set(0x000C or 0x0008)	
High Bit	(0028, 0102)	1	Always set(0x000B or 0x0007)	
Pixel Representation	(0028, 0103)	1	Always set(0x0000)	
Pixel Data	(7FE0, 0010)	1	Always set	

# 8.2.8 Contrast/Bolus Module

Table 21

1,000					
Attribute Name	Tag	Туре	Attribute Description		
Contrast/Bolus Agent	(0018, 0010)	2	Length=0 when no entry is made		
Contrast/Bolus Route	(0018, 1040)	3	Length=0 when no entry is made		
Contrast/Bolus Volume	(0018, 1041)	3	Length=0 when no entry is made		
Contrast Flow Rate(s)	(0018, 1046)	3	Length=0 when no entry is made		

#### 8.2.9 Cine Module

Table 22

Attribute Name	Tag	Туре	Attribute Description
Frame Time	(0018, 1063)	1C	Always set

### 8.2.10 Multi-frame Module

Table 23

Attribute Name	Tag	Туре	Attribute Description
Number of Frames	(0028, 0008)	1	Always set
Frame Increment Pointer	(0028, 0009)	1	Always set(0x00181063)

# 8.2.11 X-ray Image Module

Table 25

Table 25			
Attribute Name	Tag	Туре	Attribute Description
Frame Increment Pointer	(0028, 0009)	1C	Always set(0x00181063)
Image Type	(0008, 0008)	1	Always set
Pixel Intensity Relationship	(0028, 1040)	1	Always set("DISP" or "LIN ")
Samples per Pixel	(0028, 0002)	1	Always set(0x0001)
Photometric Interpretation	(0028, 0004)	1	Always set("MONOCHROME2")
Bits Allocated	(0028, 0100)	1	Always set(0x0010 or 0x0008)
Bits Stored	(0028, 0101)	1	Always set(0x000C or 0x0008)
High Bit	(0028, 0102)	1	Always set(0x000B or 0x0007)
Pixel Representation	(0028, 0103)	1	Always set(0x0000)
Reference Image Sequence	(0008, 1140)	1C	Not set when Image type(0008,0008) Value 3 is "SINGLE PLANE"
>Reference SOP Class UID	(0008, 1150)	1C	Always set when Reference Image Sequence is present
>Reference SOP Instance UID	(0008, 1155)	1C	Always set when Reference Image Sequence is present

# 8.2.12 X-ray Acquisition Module

Table 26

Table 20			
Attribute Name	Tag	Туре	Attribute Description
KVP	(0018, 0060)	2	Always set [kV]
Radiation Setting	(0018, 1155)	1	Always set
X-ray Tube Current	(0018, 1151)	2C	Always set [mA]
Exposure Time	(0018, 1150)	2C	Always set [msec]
Average Pulse Width	(0018, 1154)	3	Always set [msec]
Intensifier Size	(0018, 1162)	3	Always set [mm]
Field of View Shape	(0018, 1147)	3	Always set("ROUND ")
Field of View Dimension(s)	(0018, 1149)	3	Always set [mm]
Imager Pixel Spacing	(0018,1164)	3	Always set [mm]

### 8.2.13 XA Positioner Module

Table 27

. 4.4.0 = .			
Attribute Name	Tag	Туре	Attribute Description
Distance Source to Detector	(0018, 1110)	3	Always set [mm]
Estimated Radiographic Magnification	(0018,1114)	3	Always set
Factor			
Positioner Motion	(0018, 1500)	2C	Always set("STATIC")
Positioner Primary Angle	(0018, 1510)	2	Always set [degree]
Positioner Secondary Angle	(0018, 1511)	2	Always set [degree]

# 8.2.14 Overlay Plane Module

This module is set for single frame image only.

Table 28

14510 20			
Attribute Name	Tag	Туре	Attribute Description
Overlay Rows	(60xx, 0010)	1	Always set
Overlay Columns	(60xx, 0011)	1	Always set
Overlay Type	(60xx, 0040)	1	Always set("G")
Overlay Origin	(60xx, 0050)	1	Always set
Overlay Bits Allocated	(60xx, 0100)	1	Always set(0x0001)
Overlay Bit Position	(60xx, 0102)	1	Always set(0x0000)
Overlay Data	(60xx, 3000)	1C	Always set

### 8.2.15 VOI LUT Module

Table 29

Attribute Name	Tag	Туре	Attribute Description
Window Center	(0028, 1050)	3	Always set
Window Width	(0028, 1051)	1C	Always set

## 8.2.16 SOP Common Module

Table 30

Attribute Name	Tag	Туре	Attribute Description
SOP Class UID	(0008, 0016)	1	Always set
SOP Instance UID	(0008, 0018)	1	Always set

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