DICOM structure - coronarography

red for series and frame selection

hierarchy

patient

study nbr

series nbr - video

~acquisition nbr

instance nbr - image 2d

informative field
field required / important for calculation
field that might be necessery

dicom.nema.org - /medical/Dicom/

field	standard / common value	comments
PatientName (0010,0010)		
PatientAge (0010,1010)		
PatientOrientation (0020,0020)	L/P	
PerformedProcedureStepStartDateAndTime (0040,0245) and End…		
SOPInstanceUID (0008,0018)		file identifier (unambiguously defining)
PatientBirthDate (0010,0030)		
NumberOfFrames (0028,0008)		
StudyDate (0008,0020)		
AcquisitionDate (0008,0022)		
StudyInstanceUID (0020,000D)		
SeriesInstanceUID (0020,000E)		
SeriesNumber (0020,0011)		
AcquisitionNumber (0020,0012)		
InstanceNumber (0020,0013)		

SeriesDescription (0008,103E)	individual videos, “one video is one series”	
StudyDescription (0008,1030)	generic info what was done, e.g. coronarography	
RepresentativeFrameNumber (0028,6010)	C.7.6.9 Frame Pointers Module	might be important for automatic frame selection
WindowCenter (0028,1050)		
WindowWidth (0028,1051)		
DistanceSourceToDetector (0018,1110)	This value is traditionally referred to as Source Image Receptor Distance (SID).	Distance in mm from source to detector center.
PositionerPrimaryAngle (0018,1510)		image 3
DistanceSourceToPatient (0018,1111)	1. This value is traditionally referred to as Source Object Distance (SOD). 2. For cardiovascular image equipment the SOD value typically is the distance from source to isocenter.	Distance in mm from source to center of field of view.
PositionerSecondaryAngle (0018,1511)		image 3
PatientPosition (0018,5100)		
RecommendedDisplayFrameRate (0008,2144)		
IntensifierSize (0018,1162)		
ImagerPixelSpacing (0018,1164)		
NumberOfPoints (5000,0010)		
ShutterUpperHorizontalEdge (0018,1606)	min: 0, max: 22	image 1
ShutterRightVerticalEdge (0018,1604)	min: 465, max: 512 sum of left and right vertical is equal to 511 or 512 (roundings)	image 1
ShutterLeftVerticalEdge (0018,1602)	min: 0, max: 46	image 1
ShutterLowerHorizontalEdge (0018,1608)	min: 489, max: 512 sum of left and right horizontal is equal to 511 or 512 (roundings)	image 1
CollimatorLowerHorizontalEdge (0018,1708)	min: 489, max: 512 values are the same as for 'shutter'	
CollimatorLeftVerticalEdge (0018,1702)		
Manufacturer name & model		
KVP (energia lampy rentgenowksiej)		

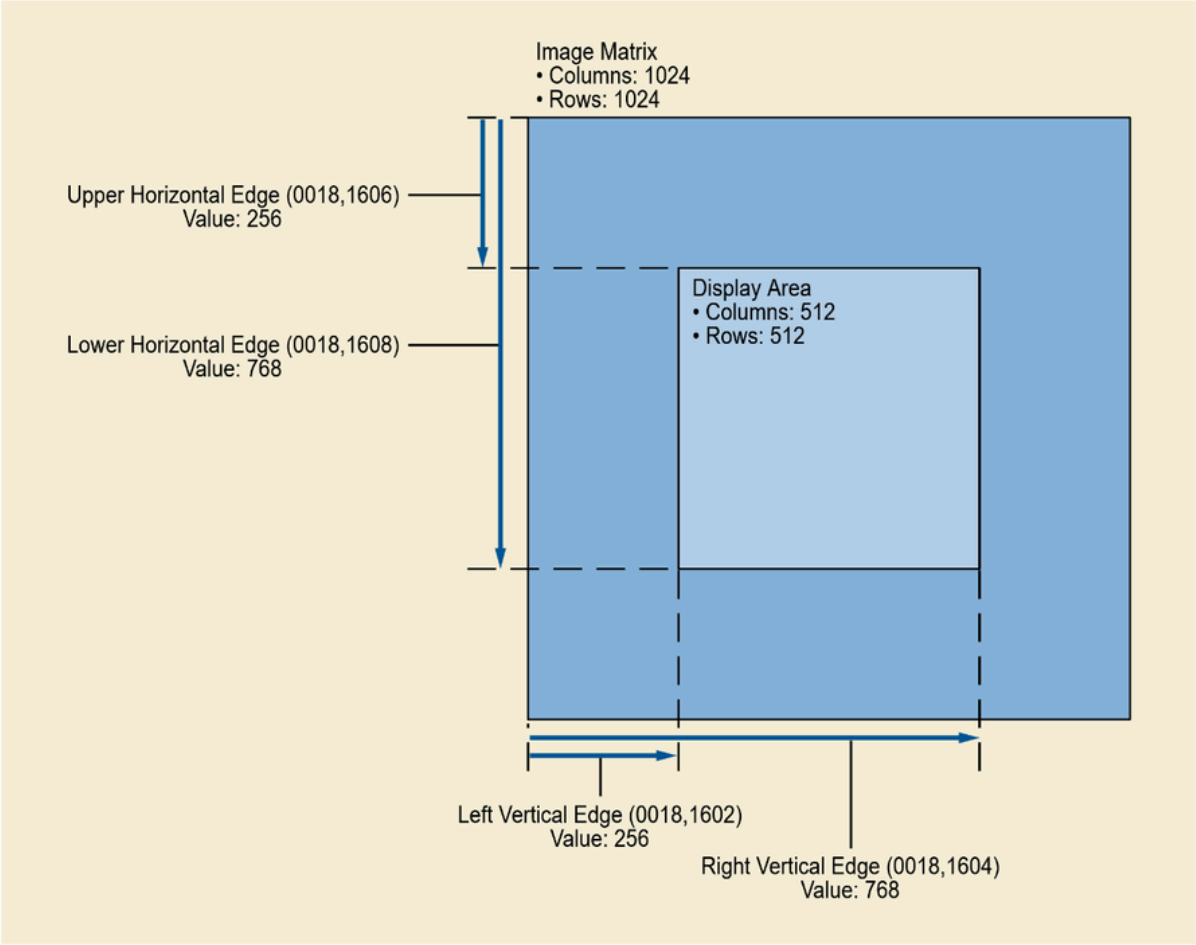

Figure C.7-1. Rectangular Display Shutter (1:1 aspect ratio image)

image 1

Figure C.7.6.16-2 shows the relationships among the various timing parameters used.

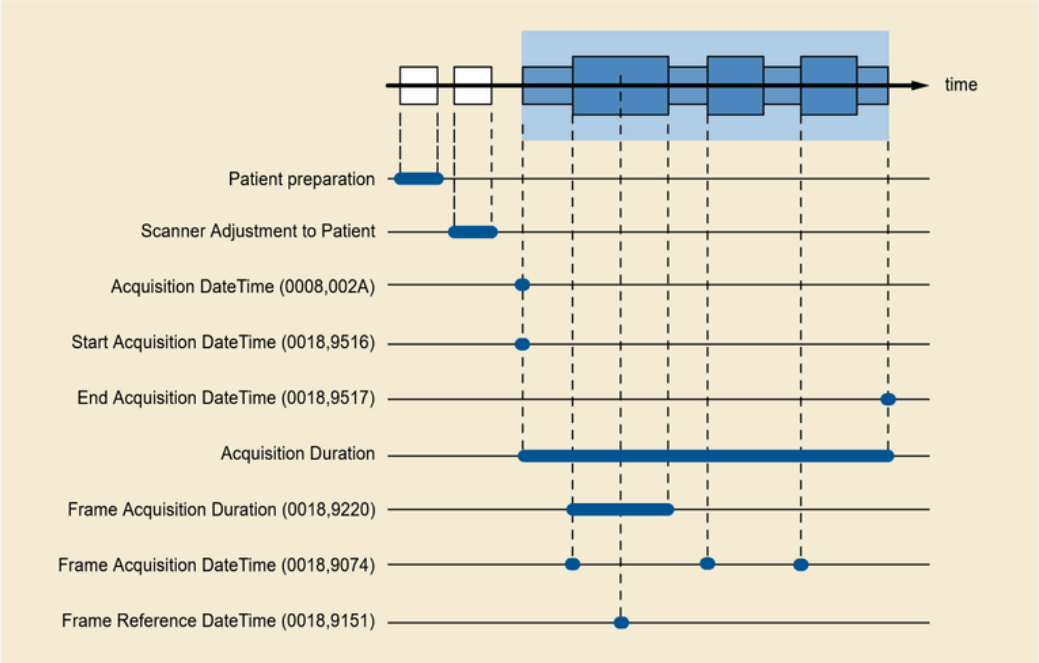

Figure C.7.6.16-2. Relationship of Timing Related Attributes

image 2

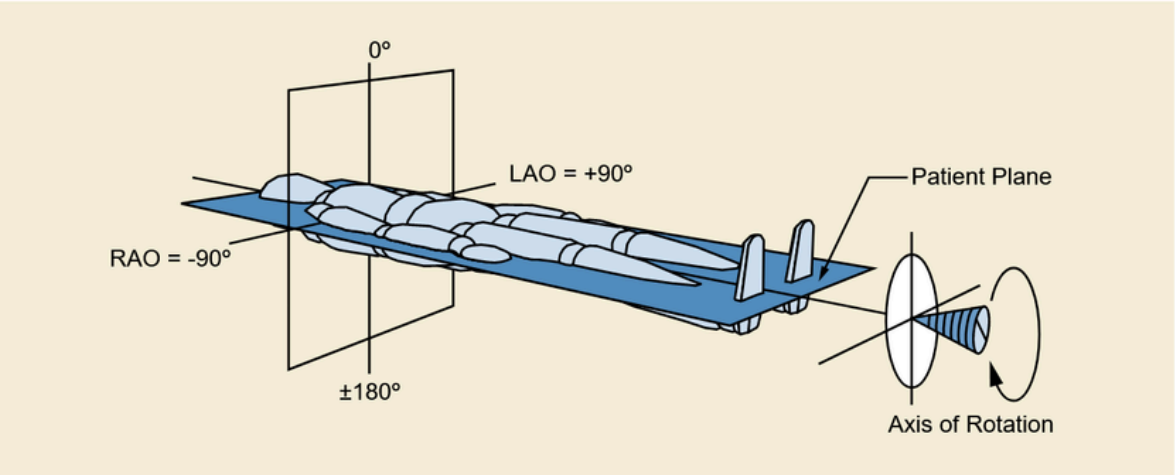

Figure C.8-11. Positioner Primary Angle

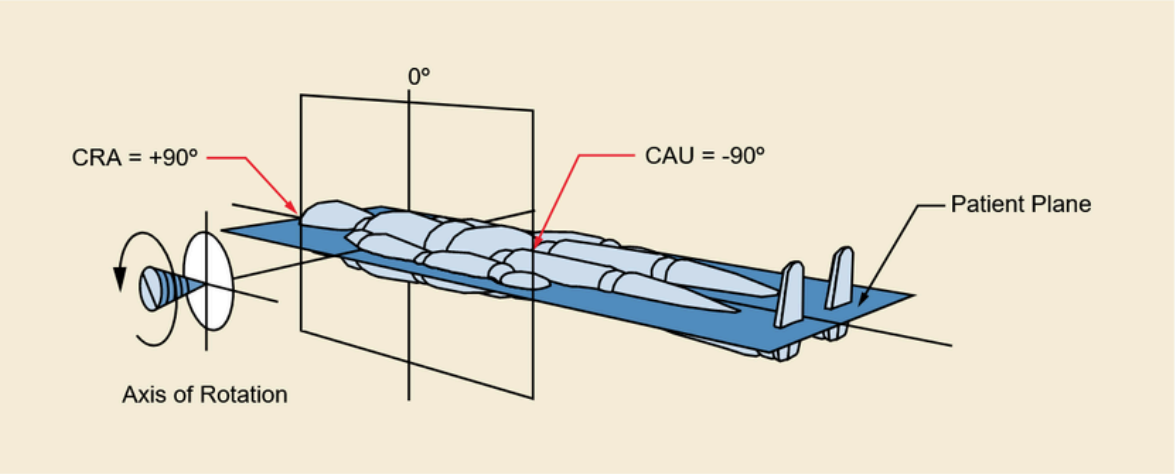

Figure C.8-12. Positioner Secondary Angle

image 3

Source:

https://dicom.nema.org/medical/dicom/

Positioner Primary Angle Attribute – DICOM Standard Browser

DICOM Library - Anonymize, Share, View DICOM files ONLINE

Update on Anonymization of DICOM Images in 2020

https://docs.google.com/spreadsheets/d/14ezSaNjxY0ypklP7BvWwSYhzaG1Ogv_spSnd1ms8w-k/edit?usp=sharing RESTRICTED CONTENT