

# Storage Analysis by Acuo Technologies, Inc

## Storage information :

#	How many <b>days</b> does the hospital work <b>per year</b> ? or How many <b>days</b> does the hospital work <b>per week</b> ?	0 or 0
#	How many <b>patients</b> are processed by Radiology <b>per year</b> ?	0
#	How many days of <b>Short Term</b> storage is needed? (This is a factor for how much <b>RAID</b> is needed)	0
#	How many years of <b>ON-LINE</b> storage is needed for <b>Long Term</b> storage? (Before Shelf-Management or a HW upgrade is required, this affects the LIBRARY choice)	0
#	How many <b>exams</b> are done <b>per year</b> ?	1
#	Of all the exams, what <b>percentage</b> are <b>repeat visit exams</b> per year?	exams)
#	When <b>priors</b> are recalled. How many <b>studies</b> on the average are <b>recalled</b> for each new study?	0

## Connectivity information :

#	How many <b>Modalities</b> are <b>connected</b> to the Archive. Count all CT, MR, NM, US, Film Digitizers, Video Capture devices that are sending data directly to AcuoMed via DICOM	0
#	At peak time (on the average) how many <b>scanners</b> will be storing exams into AucoMed/AcuoStore	0
#	To how many <b>destinations/workstations</b> is the Archive sending data?	0
#	At peak time (on average) how many workstations will be receiving studies or querying the archive?	0

## AcuoStore Estimated Storage Capacity

Number of scanners	Modality	Matrix	Image Capture	MB / Image	Images / Exam	MB / Exam	Exams / Day	Exams per year	MB / Day	MB / Year
	DSA	1024 X 1024	DICOM	2.0000						
	NUCLEAR	64 X 64	DICOM	0.0039						
	ULTRASOUND	512 X 512	DICOM	0.3700						
	CT	512 X 512	DICOM	0.5000						
	MRI	256 X 256	DICOM	0.1250						
	Digitizer	2048 X 2560	DICOM	10.0000						
	Comp. Rad (CR)	2048 X 2560	DICOM	10.0000						
	DSA	1024 X 1024	DICOM	1.0000						
	NUCLEAR	256 X 256	DICOM	0.0625						
	ULTRASOUND	512 X 512	DICOM	0.2500						
	CT	512 X 512	DICOM	0.2500						
	CT 16BIT	2048 X 2048	DICOM	8.6000						
	XA	X	DICOM	6.3000						
	MRI	256 X 256	DICOM	0.0625						

### INPUT SUMMARY

Max Working Days per year =
Days of active storage required =
Years of ON-LINE storage required =
Percentage of repeat exams =
Studies recalled per prior =

### ESTIMATED STORAGE

= GB / Day	= GB / Week
= GB / Year	= GB / Month
= Daily GB for Pre-fetched exams	
= GB for Short Term storage	
= GB needed for the RAID	
= GB needed for the LIBRARY	

(+ 15% safety margin)

(+ 10% for backup)

**= TOTAL TERABYTES ESTIMATED**