

Recommended Monitor Standards

Version 2023-02-28

Source: [REQUIREMENTS FOR MEDICAL IMAGING MONITORS \(part I\)](#)

Modality Capture (Microns)	Modality Matrix as captured	Screen Size	Screen Pixel Matrix	Color Required for:	Comments
Ultrasound IVUS	512, 768 & 1024 126 lines	18 to 19 in 15 to 18 in	$\geq 1280 \times 1024$ $\leq 1280 \times 1024$	Doppler	IVUS, avoid screen sizes above 18" diagonal
NUC/PET PET/CT	Variable	18. to 19 in 19. to 20.1 in	$\geq 1280 \times 1024$ $\geq 1600 \times 1200$	Encoding	Not recommended on 5 MP Pixel size: $\geq 0.206\text{mm}$
MRI/CT ~ 1mm/Slice Typical	256 & 512	19 to 20.8 in	$\leq 1536 \times 2048$	Enhanced 3d Reconstruction	Not recommended on 5MP Large studies on 4 MP 30" diagonal color. Pixel $\geq 0.206\text{mm}$
fMRI	256 & 512	19 to 20.8 in	$\leq 1536 \times 2048$	Contrast Enhancement	≤ 3 MP color or monochrome or 6MP @ $\geq 0.206\text{mm}$
Fluoro/R&F CTFluoro	1024 x 1024	18 to 20.1 in	$\leq 1600 \times 1200$	N/A	1280 x 1024 minimum for 1:1 aspect image w/in 5:4 screen. Gray-to-Gray cycle response time $\leq 13\text{ms}$
CR/DR (100-150)	4 MP	20.8 to 21.3 in	$\geq 1536 \times 2048$	N/A	Ideal t to 3 MP, color or monochrome $\geq 400 \text{ cd./m}^2$
Digitized Film (50-150)	8 MP ~ 8-10 lp/mm	20.8 to 21.3 in	$\geq 1536 \times 2048$	N/A	3 MP color or monochrome 5 MP monochrome
Mammography (50-100)	20MP+ ~ 18-20 lp/mm	21.3 in	2048 x 2560	N/A	FDA requires 510K approval specifically for Mammography

Contact Purview Support

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