

Software Limitations

Digitised Film Mammograms (DFM)

The DFM images must have the display as close as possible to the examples shown in the file “*CASAM Expected Display of Digitised Film Mammograms.pdf*”. Essentially, the DFM’s surrounding box –if any- must be displayed in white color.

Full Field Digital Mammograms (FFDM)

- The supported type is the processed FFDM images (a.k.a., *For Presentation*).
- The supported *ViewPosition* tags are MLO and CC views.
- The current supported machines and models are as follows:

Machine code	Manufacturer	Manufacturer model name	Station name
0	GE MEDICAL SYSTEMS	Senographe Essential VERSION ADS_53.40	GEMAM-KLN1
1	GE MEDICAL SYSTEMS	Senographe Essential VERSION ADS_53.40	GEMAM-SCR2
2	GE MEDICAL SYSTEMS	Senographe Essential VERSION ADS_53.40	HBGMG03
3	GE MEDICAL SYSTEMS	Senographe Essential VERSION ADS_53.10.10	HBGMG03
4	GE MEDICAL SYSTEMS	Senographe Essential VERSION ADS_53.40	LKAMG01
5	GE MEDICAL SYSTEMS	Senograph DS VERSION ADS_53.40	SCR1
6	Sectra Imtec AB	L30	BDCHK1
7	Sectra Imtec AB	L30	SECTRA_MDM_1
8	Sectra Imtec AB	MDM 1.5	BDCHK2
9	Sectra Imtec AB	MDM 1.5	BDCHK3
10	Philips Digital Mammography Sweden AB	L30	BDCHK1
11	Philips Digital Mammography Sweden AB	L30	BDCHK2
12	Philips Digital Mammography Sweden AB	L30	BDCHK3
13	Philips Digital Mammography Sweden AB	L30	BDCHK4
14	Philips Digital Mammography Sweden AB	L30	SECTRA_MDM_1

- The following acquisition parameters must be encoded into the header file of the FFDM images in order for the function “*Volumetric PD*” to work; other functions do not need access to these parameters. No personal information is accessed from the header file. *KVP, ExposureTime, XrayTubeCurrent, Exposure, ExposureInuAs, BodyPartThickness, CompressionForce, AnodeTargetMaterial, RelativeXrayExposure, OrganDose, FilterMaterial*.
- The extracted PD measurements and MIP values **are not** machine independent. Therefore, when fitting a statistical model incorporating measurements from different mammographic machines, it is important to adjust for machine types to alleviate any machine-based artifacts/bias. The software processes already processed mammographic images by the vendors. Each vendor has its own Raw-to-Processed transformation algorithm which is kept not public, hence the measurements variability.
- The average of measurements from both views (MLO and CC views) could improve the accuracy.