


6.5 Basic Image Adjustments Overview


Step 1:

- Get up-to-date **Connectivity Release Document** from MedNet, HealthCare Library



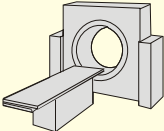
Path: General Info → Connectivity & Application

- Perform image adjustments as described at the Modality and/or the Printer
- Continue with Step 2, in case
 - ➔ the customer is not satisfied with the image **or**
 - ➔ for this modality no Connectivity Release Document exists

 In case the printer is part of a solution (e.g. DR Mammography Solution), refer to the solution specific requirements concerning image adjustments.

Step 2: Try to adjust Contrast and Sharpness at the Modality

Contrast Adjustment → Use Kanamori Taste LUT¹
If available also Dmax



Sharpness Adjustment

- Cubic High Res + smoothfactor² (modality sends in image mode)² **or**
- Cubic Bell + smoothfactor (modality sends in page mode)²

Interpolation Smooth Factors (DICOM values)³
Software ≥ SW Rel. 3

299	251	245	235	200	
					Cubic Bell
199	148	143	138	101	
					Cubic High Res
less sharp		sharp		too sharp	

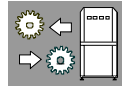
Legend

					Limits
					Default
299	251	245	235	200	
					Useable values


¹Refer to note 1 next page
²Refer to note 2 next page
³Refer to note 3 next page

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Contrast and Sharpness adjustment at the Modality

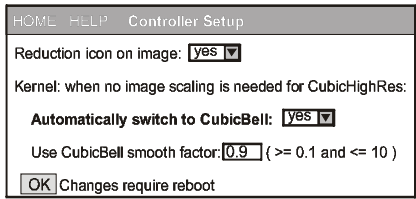
1  The Look-Up-Table, which is responsible (in combination with Dmin and Dmax) for the contrast of the image, may be named at the modality

- Taste LUT
- Perception LUT
- Correction LUT
- Presentation LUT


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In case of "Presentation LUT" selection, also enter lightbox illumination and reflected ambient light.

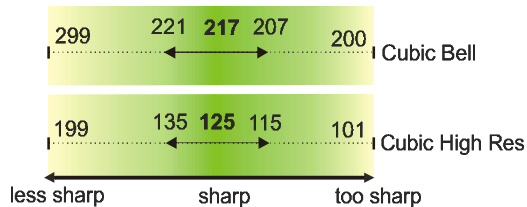
2  **Autoswitch to cubic bell functionality of the printer:** When no image scaling (i.e. magnification or reduction) is required, Cubic HighRes interpolation type does not sharpen the image. Interpolation type 'Cubic Bell' sharpnes the image however, independant whether scaling is required or not. This automatic adjustment is only used, in case the Interpolation Type is adjusted to 'cubic high res' in the user profile (= default).



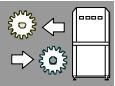
Access to this window:
 Browser Pages
 ↓
 Service Tools
 ↓
 Scaling Setup

3  At printers with Software < SW Rel. 2 the required interpolation smoothfactor setting at the modality is different compared to printers with Software > SW Rel. 2.

Interpolation Smooth Factors (DICOM values)
 Software < SW Rel. 2



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Step 3: • In case Contrast and Sharpness adjustment at the Modality not possible, adjust it at printer.

- Can be made via
 - local keypad → ①
 - Service Engineer Browser pages → ②



Contrast Adjustment *

Sharpness Adjustment *

① Contrast and Sharpness adjustment via key-operator menu "Image Quality"
Access via Keypad or Browser

Key-Operator Menu

2 Change Settings

5 Image Quality

<select Modality>

2 Select Other

1 Look up table

2 Interpolation

3 Dmax

- Kanamori
Linear
Kanamori_like
- Cubic Bell
Cubic High Res
Linear
Replication
- 2.80 - 3.20
(2.80 - 3.80
Mammo printers)

② Contrast and Sharpness Adjustment via DICOM Host Profile
Access via Browser only

HELP Host Profile: Name XYZ

These are the default settings for all print jobs coming from the host (modality) specified under 'Calling AE title'. The values may be overloaded at run-time by the Dicom input. You can prevent this by checking the checkboxes at the left side.

Nick Name: Name XYZ

Use this profile only for incoming 'Calling AE title': Host AE

Use this profile only for local SCP server: all

Host Profile type: GENERIC-GENERIC Change

Kernel: site Edit Custom

Perception LUT: kanamori
Kanamori Like value:
Custom value:

Maximum Density (OD x 100) site 300

LR like: off

OK Cancel Show Defaults Show last Input

Manually customized items are show in red

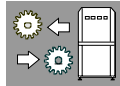
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Sharpness Adjustment *

Contrast Adjustment *

*Refer to notes next page

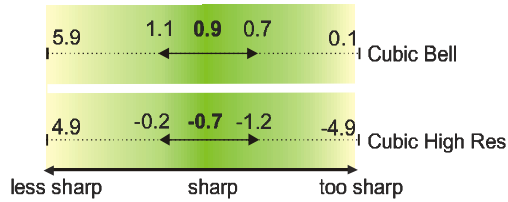
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Contrast and Sharpness adjustment at the printer

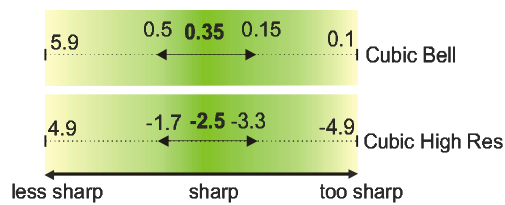


Interpolation Smooth Factors (Kernel values) Software ≥ SW Rel. 2

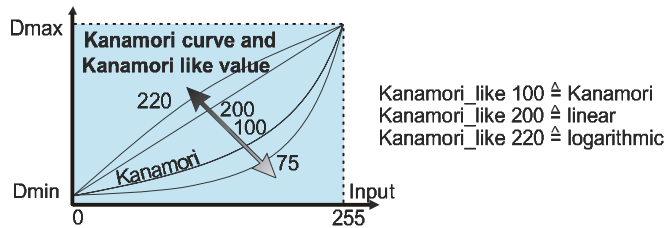


At printers with Software < SW Rel. 2 the interpolation smoothfactor setting is different compared to printers with Software ≥ SW Rel. 2.

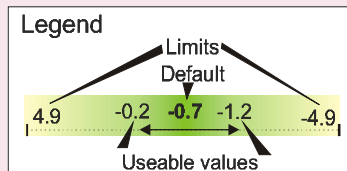
Interpolation Smooth Factors (Kernel Values) Software < SW Rel. 2



Perception LUT / Look up table settings at the Printer



For more details refer to the **Hardcopy Application Manual on MEDNET, GSO Library**



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