

EDIUS Resampling Method

EDIUS 6.5 or later allows to select resampling method in the Layouter. This document describes which method should I select.

Scaling up

Basically, we recommend to select Lanczos 3 (Hi-Quality) resampling method when scaling up image. If you have any problem, switch to another method as below:

- A) If calculate speed is slow, switch to Bilinear.
- B) If overshoot noise appears so much, switch to Lanczos 2 or Bilinear.

Below is characteristic matrix of each resampling method on scaling up.

	Blurred	Aliasing	Overshoot	Calculate Speed
Bilinear	**	**	*****	*****
Area Average	*****	*	*****	*****
Bicubic	****	***	**	***
Lanczos 2	****	****	****	***
Lanczos 3	****	*****	***	***
Lanczos 3 Smoother	****	*****	***	***
Lanczos 3 Sharper	****	*****	***	***

* = No good ***** = Best

Scaling down

Basically, we recommend to select Lanczos 3 (Sharper) resampling method when scaling down image. If you have any problem, switch to another method as below:

- A) If aliasing noise appears so much, switch to Lanczos 3 Hi-Quality or Lanczos 3 Smoother.
- B) If overshoot appears so much, switch to Lanczos 2 or Area Average.
- C) If calculate speed is slow, switch to Area Average, but aliasing noise appears so much by switching to Area Average, select Bilinear instead of Area Average.

Below is characteristic matrix of each resampling method on scaling down.

	Blurred	Aliasing	Overshoot	Calculate Speed
Bilinear	**	****	*****	****
Area Average	***	**	*****	****
Bicubic	****	***	***	***
Lanczos 2	***	***	****	***

Lanczos 3	****	****	***	**
Lanczos 3 Smoother	***	*****	***	**
Lanczos 3 Sharper	*****	***	***	**

* = No good ***** = Best

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