Behavior of Illustrator Vignette in Brisque V3 / V4 RIP

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Scitex	Vignette	Smooth Shading		V3 PS3							V4							Diff	Recom-
Vignettes	to CT	Convert	Smoothe	Vignette	CT		LW			Vignette	Vignette	CT		LW			Vignette	between	mend
(CMYK)	(CMYK)	to PS3	Vignette	into	size [MB]	seps	size [MB]	seps	colors	Quality	into	size [MB]	seps	size [MB]	seps	colors	Quality	V3 / V4	in V4
0	**0**	**0**	**0**	CT+LW	37.19	4	9.90	6	35	OK	**LW**	-	-	7.22	5	349	OK	-	**YES**
0	**0**	**0**	**1**	CT+LW	37.19	4	9.90	6	35	OK	**LW**	-	-	7.22	5	349	OK	-	**YES**
0	**0**	**1**	**0**	CT+LW	37.19	4	9.90	6	35	OK	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
0	**0**	**1**	**1**	CT+LW	37.19	4	9.90	6	35	OK	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
0	**1**	**0**	**0**	CT+LW	59.23	4	9.91	6	35	OK	**CT**	59.23	4	9.91	6	34	OK	0 - 1%	**YES**
0	**1**	**0**	**1**	CT+LW	59.23	4	9.91	6	35	**GOOD**	**CT**	59.23	4	9.91	6	34	OK	0 - 1%	**YES**
0	**1**	**1**	**0**	CT+LW	59.23	4	9.91	6	35	OK	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
0	**1**	**1**	**1**	CT+LW	59.23	4	9.91	6	35	**GOOD**	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
1	**0**	**0**	**0**	CT+LW	37.19	4	9.90	6	35	OK	**LW**	-	-	7.22	5	349	OK	-	**YES**
1	**0**	**0**	**1**	CT+LW	37.19	4	9.90	6	35	OK	**LW**	-	-	7.22	5	349	OK	-	**YES**
1	**0**	**1**	**0**	CT+LW	37.19	4	9.90	6	35	OK	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
1	**0**	**1**	**1**	CT+LW	37.19	4	9.90	6	35	OK	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
1	**1**	**0**	**0**	CT+LW	59.23	4	9.91	6	35	OK	**CT**	59.23	4	9.91	6	34	OK	0 - 1%	**YES**
1	**1**	**0**	**1**	CT+LW	59.23	4	9.91	6	35	**GOOD**	**CT**	59.23	4	9.91	6	34	OK	0 - 1%	**YES**
1	**1**	**1**	**0**	CT+LW	59.23	4	9.91	6	35	OK	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	
1	**1**	**1**	**1**	CT+LW	59.23	4	9.91	6	35	**GOOD**	CT+LW	37.21	4	9.90	6	35	**BAD**	0 - 1%	

0=Off 1=on

Brisque versions : V3 : Brisque 3.0.38 (Option2) / V4 : Brisque 4.0.97. V:4.1: Brisque ver 4.1.76

Sample file : Illustrator 9 file with Vignette in Yellow and Cyan separation (2 spot colors are included but not used in Vignette)

RIP Parameters: LW Res=100dpm, CT Res=12dpm, All to Spot, Vignette Handling=various combinations (refer to the table), others are Scitex Default

Expose Parameters: Screen Set=Vc150r10c, Excurve=none, others are Scitex Default

Vignette Quality: Verified on film the smoothness of Vignette (If Banding is seen or not) : GOOD=not seen / OK=seen but permissible / BAD=too many bandings

Difference between V3/V4: Compared CTs in the resulting V3/V4 jobs by Photoshop's calculation (subtraction)