

MULTICAM STORAGE FORMATS

Abstract

Specification of image storage formats used by MultiCam products

WARNING

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- 2 Some of the methods and devices described in this document are covered by one or several patents applied by or granted to Euresys S.A.*

REVISION HISTORY

Date	Revision	Author	Description of modifications
2007-03-15	1.0	FL	First edition
2007-03-22	1.1	FL	RGB32 and RGB64 supersede ARGB32 and ARGB64 respectively.
2015-12-04	1.2	FL	Update the color component order for all the RGB packed formats but RGB24. In any case, Blue is at the lowest address!
2016-01-25	1.3	FL	Remove unused formats (were used on obsolete products) Add PFNC (Pixel Format Naming Convention) equivalent name Remove FourCC equivalent name
2016-01-26	1.4	FL	Add RGB15 RGB16
2016-03-31	1.5	FL	Add alternate RGB color components order variants to RGB24 and RGB32

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1 CLASSIFICATION

The table below lists all the storage format classes available in MultiCam.

For each class, the column named "*Applicable ColorFormat values*" lists all the values of the channel parameter `ColorFormat` that belongs to this class.

Storage format class	Applicable <code>ColorFormat</code> values	Description
Monochrome	Y8 Y10 Y12 Y14 Y16	One single data plane containing luminance component.
Packed Y U V components	YUV411 YUV422 YUV444 Y41P Y42P IYU2	One single data plane containing luminance Y and both chrominance U & V components in a packed format.
Planar Y U V components	YUV411PL YUV422PL Y41B Y42B YUV411PL_DEC YUV422PL_DEC YUV9 YVU9 I420 IYUV YV12	Three data planes containing luminance Y and both chrominance U & V components.
Packed R G B components	RGB24 RGB32	One single data plane containing red, green, and blue color components in a packed format.
Planar R G B components	RGB24PL RGB30PL RGB36PL RGB42PL RGB48PL	Three data planes containing respectively red, green, and blue color components.
Bayer CFA	BAYER8 BAYER10 BAYER12 BAYER14 BAYER16	One single data plane containing raw BAYER CFA data.
Raw data	RAW8 RAW10 RAW12 RAW14 RAW16	One single data plane containing raw data.

2 MONOCHROME

2.1 Y8

Monochrome 8-bit

ColorFormat	PFNC	Storage type	Storage requirement
Y8	Mono8	N/A	1 Byte/pixel

Spatial sampling periods			Spatial map				Plane assignment																								
<table><tr><th>Component</th><th>Horizontal</th><th>Vertical</th></tr><tr><td>Y</td><td>1</td><td>1</td></tr></table>			Component	Horizontal	Vertical	Y	1	1	<table><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Plane#	Plane name	Storage requirement
			Component	Horizontal	Vertical																										
			Y	1	1																										
			Y	Y	Y	Y																									
			Y	Y	Y	Y																									
Y	Y	Y	Y																												
Y	Y	Y	Y																												
0	Y	1 Byte/pixel																													
1	-	-																													
2	-	-																													
3	-	-																													

Plane 0	Memory layout																			
Word 0	Pixel 3: Y								Pixel 2: Y								Pixel 1: Y			
Byte#	3								2								1			
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12

2.2 Y10

Monochrome 10-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
Y10	Mono10	N/A	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																								
<table><tr><th>Component</th><th>Horizontal</th><th>Vertical</th></tr><tr><td>Y</td><td>1</td><td>1</td></tr></table>			Component	Horizontal	Vertical	Y	1	1	<table><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Plane#	Plane name	Storage requirement
			Component	Horizontal	Vertical																										
			Y	1	1																										
			Y	Y	Y	Y																									
			Y	Y	Y	Y																									
Y	Y	Y	Y																												
Y	Y	Y	Y																												
0	Y	2 Bytes/pixel																													
1	-	-																													
2	-	-																													
3	-	-																													

Plane 0	Memory layout																			
Word 0	"0000 00"								Pixel 1: Y								"0000 00"			
Byte#	3								2								1			
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12

2.3 Y12

Monochrome 12-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
Y12	Mono12	N/A	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																								
<table><tr><th>Component</th><th>Horizontal</th><th>Vertical</th></tr><tr><td>Y</td><td>1</td><td>1</td></tr></table>			Component	Horizontal	Vertical	Y	1	1	<table><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Plane#	Plane name	Storage requirement
			Component	Horizontal	Vertical																										
			Y	1	1																										
			Y	Y	Y	Y																									
			Y	Y	Y	Y																									
			Y	Y	Y	Y																									
Y	Y	Y	Y																												
0	Y	2 Bytes/pixel																													
1	-	-																													
2	-	-																													
3	-	-																													

Plane 0	Memory layout																																							
Word 0	"0000"				Pixel 1: Y																"0000"				Pixel 0: Y															
Byte#	3								2								1								0															
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0								

2.4 Y14

Monochrome 14-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
Y14	Mono14	N/A	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																								
<table><tr><th>Component</th><th>Horizontal</th><th>Vertical</th></tr><tr><td>Y</td><td>1</td><td>1</td></tr></table>			Component	Horizontal	Vertical	Y	1	1	<table><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Plane#	Plane name	Storage requirement
			Component	Horizontal	Vertical																										
			Y	1	1																										
			Y	Y	Y	Y																									
			Y	Y	Y	Y																									
Y	Y	Y	Y																												
Y	Y	Y	Y																												
0	Y	2 Bytes/pixel																													
1	-	-																													
2	-	-																													
3	-	-																													

Plane 0	Memory layout																																			
Word 0	"00"		Pixel 1: Y																"00"		Pixel 0: Y															
Byte#	3								2								1								0											
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0				

2.5 Y16

Monochrome 16-bit

ColorFormat	PFNC	Storage type	Storage requirement
Y16	Mono16	N/A	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
							Plane#	Plane name	Storage requirement
Component	Horizontal	Vertical	Y	Y	Y	Y	0	Y	2 Bytes/pixel
Y	1	1	Y	Y	Y	Y	1	-	-
			Y	Y	Y	Y	2	-	-
			Y	Y	Y	Y	3	-	-

Plane 0	Memory layout																															
Word 0	Pixel 1: Y																Pixel 0: Y															
Byte#	3																2															
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

3 PACKED Y U V COMPONENTS

3.1 YUV411 (Y41P)

YUV 4:1:1 8-bit

ColorFormat	PFNC	Storage type	Storage requirement
YUV411 Y41P	YUV411_8_UYVYUYVYYYYY	PACKED	1.5 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																														
<table><tr><th>Component</th><th>Horizontal</th><th>Vertical</th></tr><tr><td>Y</td><td>1</td><td>1</td></tr><tr><td>U (Cb)</td><td>4</td><td>1</td></tr><tr><td>V (Cr)</td><td>4</td><td>1</td></tr></table>			Component	Horizontal	Vertical	Y	1	1	U (Cb)	4	1	V (Cr)	4	1	<table><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				YC	Y	Y	Y	YC	Y	Y	Y	YC	Y	Y	Y	YC	Y	Y	Y	Plane#	Plane name	Storage requirement
			Component	Horizontal	Vertical																																
			Y	1	1																																
			U (Cb)	4	1																																
			V (Cr)	4	1																																
YC	Y	Y	Y																																		
YC	Y	Y	Y																																		
YC	Y	Y	Y																																		
YC	Y	Y	Y																																		
0	YUV	1.5 Bytes/pixel																																			
1	-	-																																			
2	-	-																																			
3	-	-																																			

Plane 0	Memory layout																															
Word 2	Pixel 7: Y								Pixel 6: Y								Pixel 5: Y								Pixel 4: Y							
Word 1	Pixel 3: Y								Pixel 4: V(Cr)								Pixel 2: Y								Pixel 4: U(Cb)							
Word 0	Pixel 1: Y								Pixel 0: V(Cr)								Pixel 0: Y								Pixel 0: U(Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

3.2 YUV422 (Y42P)

YUV 4:2:2 8-bit

ColorFormat	PFNC	Storage type	Storage requirement
YUV422 Y42P	YUV422_8_YUYV	PACKED	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
							Plane#	Plane name	Storage requirement
Component	Horizontal	Vertical	YC	Y	YC	Y	0	YUV	2 Bytes/pixel
Y	1	1	YC	Y	YC	Y	1	-	-
U (Cb)	2	1	YC	Y	YC	Y	2	-	-
V (Cr)	2	1	YC	Y	YC	Y	3	-	-

Plane 0	Memory layout																															
Word 0	Pixel 0: V(Cr)								Pixel 1: Y								Pixel 0: U(Cb)								Pixel 0: Y							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

3.3 YUV444 (IYU2)

YUV 4:4:4 8-bit

ColorFormat	PFNC	Storage type	Storage requirement
YUV444 IYU2	YUV444_8_UYV	PACKED	3 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																		
			<table><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr></table>				YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	Plane#	Plane name	Storage requirement
YC	YC	YC					YC																		
YC	YC	YC					YC																		
YC	YC	YC					YC																		
YC	YC	YC					YC																		
Y	1	1	0	YUV	3 Bytes/pixel																				
U (Cb)	1	1	1	-	-																				
V (Cr)	1	1	2	-	-																				
			3	-	-																				

Plane 0	Memory layout																															
Word 0	Pixel 3: V(Cr)								Pixel 3: Y								Pixel 3: U(Cb)								Pixel 2: V(Cr)							
Word 0	Pixel 2: Y								Pixel 2: U(Cb)								Pixel 1: V(Cr)								Pixel 1: Y							
Word 0	Pixel 1: U(Cb)								Pixel 0: V(Cr)								Pixel 0: Y								Pixel 0: U(Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

4 PLANAR Y U V COMPONENTS

4.1 YUV411PL (Y41B)

YUV 4:1:1 8-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
YUV411PL Y41B	YUV411_8_Planar	PLANAR	1.5 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																						
			<table><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				YC	Y	Y	Y	YC	Y	Y	Y	YC	Y	Y	Y	YC	Y	Y	Y	YC	Y	Y	Y	Plane#	Plane name	Storage requirement
YC	Y	Y					Y																						
YC	Y	Y					Y																						
YC	Y	Y					Y																						
YC	Y	Y					Y																						
YC	Y	Y	Y																										
Component	Horizontal	Vertical	0	Y	1 Byte/pixel																								
Y	1	1	1	U	0.25 Byte/pixel																								
U (Cb)	4	1	2	V	0.25 Byte/pixel																								
V (Cr)	4	1	3	-	-																								

Plane 0	Memory layout																																																							
Word 3	Pixel 15: Y								Pixel 14: Y								Pixel 13: Y								Pixel 12: Y																															
Word 2																									Pixel 11: Y								Pixel 10: Y								Pixel 9: Y								Pixel 8: Y							
Word 1																									Pixel 7: Y								Pixel 6: Y								Pixel 5: Y								Pixel 4: Y							
Word 0																									Pixel 3: Y								Pixel 2: Y								Pixel 1: Y								Pixel 0: Y							
Byte#																									3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																								

Plane 1	Memory layout																															
Word 0	Pixel 12: U (Cb)								Pixel 8: U (Cb)								Pixel 4: U (Cb)								Pixel 0: U (Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 2	Memory layout																															
Word 0	Pixel 12: V (Cr)								Pixel 8: V (Cr)								Pixel 4: V (Cr)								Pixel 0: V (Cr)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

4.2 YUV422PL (Y42B)

YUV 4:2:2 8-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
YUV422PL Y42B	YUV422_8_Planar	PLANAR	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
							Plane#	Plane name	Storage requirement
Component	Horizontal	Vertical	YC	Y	YC	Y	0	Y	1 Byte/pixel
Y	1	1	YC	Y	YC	Y	1	U	0.5 Byte/pixel
U (Cb)	2	1	YC	Y	YC	Y	2	V	0.5 Byte/pixel
V (Cr)	2	1	YC	Y	YC	Y	3	-	-

Plane 0	Memory layout																															
Word 0	Pixel 3: Y								Pixel 2: Y								Pixel 1: Y								Pixel 0: Y							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 1	Memory layout																															
Word 0	Pixel 3: U (Cb)								Pixel 2: U (Cb)								Pixel 1: U (Cb)								Pixel 0: U (Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 2	Memory layout																															
Word 0	Pixel 3: V (Cr)								Pixel 2: V (Cr)								Pixel 1: V (Cr)								Pixel 0: V (Cr)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

4.3 YUV444PL

YUV 4:4:4 8-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
YUV444PL	YUV444_8_Planar	PLANAR	3 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																		
			<table><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr><tr><td>YC</td><td>YC</td><td>YC</td><td>YC</td></tr></table>				YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	YC	Plane#	Plane name	Storage requirement
YC	YC	YC					YC																		
YC	YC	YC					YC																		
YC	YC	YC					YC																		
YC	YC	YC					YC																		
			0	Y	1 Byte/pixel																				
			1	U	1 Byte/pixel																				
			2	V	1 Byte/pixel																				
						3	-	-																	

Plane 0	Memory layout																															
Word 0	Pixel 3: Y								Pixel 2: Y								Pixel 1: Y								Pixel 0: Y							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 1	Memory layout																															
Word 0	Pixel 3: U (Cb)								Pixel 2: U (Cb)								Pixel 1: U (Cb)								Pixel 0: U (Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 2	Memory layout																															
Word 0	Pixel 3: V (Cr)								Pixel 2: V (Cr)								Pixel 1: V (Cr)								Pixel 0: V (Cr)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

4.4 YUV422PL-DEC (I420, IYUV, YV12)

YUV 4:2:0 8-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
YUV422PL_Dec I420 IYUV YV12	YUV420_Planar	PLANAR	1.5 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																		
			<table><tr><td>YC</td><td>Y</td><td>YC</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>YC</td><td>Y</td><td>YC</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				YC	Y	YC	Y	Y	Y	Y	Y	YC	Y	YC	Y	Y	Y	Y	Y	Plane#	Plane name	Storage requirement
YC	Y	YC					Y																		
Y	Y	Y					Y																		
YC	Y	YC					Y																		
Y	Y	Y					Y																		
Component	Horizontal	Vertical	0	Y	1 Byte/pixel																				
Y	1	1	1	U	0.25 Byte/pixel																				
U (Cb)	2	2	2	V	0.25 Byte/pixel																				
V (Cr)	2	2	3	-	-																				

Plane 0	Memory layout																															
Word 1	Pixel 7: Y								Pixel 6: Y								Pixel 5: Y								Pixel 4: Y							
Word 0	Pixel 3: Y								Pixel 2: Y								Pixel 1: Y								Pixel 0: Y							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 1	Memory layout																															
Word 0	Pixel 6: U (Cb)								Pixel 4: U (Cb)								Pixel 2: U (Cb)								Pixel 0: U (Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 2	Memory layout																															
Word 0	Pixel 6: V (Cr)								Pixel 4: V (Cr)								Pixel 2: V (Cr)								Pixel 0: V (Cr)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

4.5 YUV411PL-DEC (YUV9, YVU9)

YUV 4:1:0 8-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
YUV411PL_Dec YUV9 YVU9	YUV410_Planar	PLANAR	1.125 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment																														
<table><tr><th>Component</th><th>Horizontal</th><th>Vertical</th></tr><tr><td>Y</td><td>1</td><td>1</td></tr><tr><td>U (Cb)</td><td>4</td><td>4</td></tr><tr><td>V (Cr)</td><td>4</td><td>4</td></tr></table>			Component	Horizontal	Vertical	Y	1	1	U (Cb)	4	4	V (Cr)	4	4	<table><tr><td>YC</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr><tr><td>Y</td><td>Y</td><td>Y</td><td>Y</td></tr></table>				YC	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Plane#	Plane name	Storage requirement
			Component	Horizontal	Vertical																																
			Y	1	1																																
			U (Cb)	4	4																																
			V (Cr)	4	4																																
			YC	Y	Y	Y																															
Y	Y	Y	Y																																		
Y	Y	Y	Y																																		
Y	Y	Y	Y																																		
0	Y	1 Byte/pixel																																			
1	U	0.0625 Byte/pixel																																			
2	V	0.0625 Byte/pixel																																			
3	-	-																																			

Plane 0	Memory layout																															
Word 2	Pixel 15: Y								Pixel 14: Y								Pixel 13: Y								Pixel 12: Y							
Word 2																																
Word 1	Pixel 7: Y								Pixel 6: Y								Pixel 5: Y								Pixel 4: Y							
Word 0																																
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 1	Memory layout																															
Word 0	Pixel 12: U (Cb)								Pixel 8: U (Cb)								Pixel 4: U (Cb)								Pixel 0: U (Cb)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

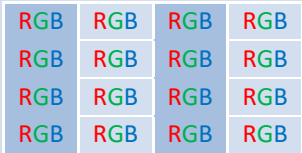
Plane 2	Memory layout																															
Word 0	Pixel 12: V (Cr)								Pixel 8: V (Cr)								Pixel 4: V (Cr)								Pixel 0: V (Cr)							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

5 PACKED R G B COMPONENTS

5.1 RGB15

Blue-Green-Red 5/5/5-bit packed

ColorFormat	PFNC	Storage type	Storage requirement
RGB15	BGR555	PACKED	2 Bytes/pixel

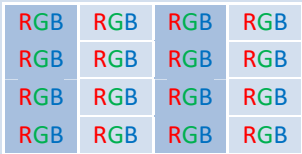
Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	RGB	2 Bytes/pixel
G	1	1					1	-	-
B	1	1					2	-	-
							3	-	-

Plane 0	Memory layout																															
Word 0	0		Pixel 1: R				Pixel 1: G				Pixel 1: B				0		Pixel 0: R				Pixel 0: G				Pixel 0: B							
Byte#			3								2						1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

5.2 RGB16

Blue-Green-Red 5/6/5-bit packed

ColorFormat	PFNC	Storage type	Storage requirement
RGB16	BGR565	PACKED	2 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	RGB	2 Bytes/pixel
G	1	1					1	-	-
B	1	1					2	-	-
							3	-	-

Plane 0	Memory layout																																															
Word 0	Pixel 1: R								Pixel 1: G								Pixel 1: B								Pixel 0: R								Pixel 0: G								Pixel 0: B							
Byte#	3								2								1								0																							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																

5.3 RGB24 – Default BGR color components order

Blue-Green-Red 8-bit

ColorFormat	ColorComponentsOrder	PFNC	Storage type	Storage requirement
RGB24	BGR	BGR8	PACKED	3 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical	RGB	RGB	RGB	RGB	Plane#	Plane name	Storage requirement
R	1	1	RGB	RGB	RGB	RGB	0	RGB	3 Bytes/pixel
G	1	1	RGB	RGB	RGB	RGB	1	-	-
B	1	1	RGB	RGB	RGB	RGB	2	-	-
			RGB	RGB	RGB	RGB	3	-	-

Plane 0	Memory layout																															
Word 2	Pixel 3: R								Pixel 3: G								Pixel 3: B								Pixel 2: R							
Word 1	Pixel 2: G								Pixel 2: B								Pixel 1: R								Pixel 1: G							
Word 0	Pixel 1: B								Pixel 0: R								Pixel 0: G								Pixel 0: B							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

5.4 RGB24 – Alternate RGB color components order

Red-Green-Blue 8-bit

ColorFormat	ColorComponentsOrder	PFNC	Storage type	Storage requirement
RGB24	RGB	RGB8	PACKED	3 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
							Plane#	Plane name	Storage requirement
Component	Horizontal	Vertical	RGB	RGB	RGB	RGB	0	RGB	3 Bytes/pixel
R	1	1	RGB	RGB	RGB	RGB	1	-	-
G	1	1	RGB	RGB	RGB	RGB	2	-	-
B	1	1	RGB	RGB	RGB	RGB	3	-	-

Plane 0	Memory layout																															
Word 2	Pixel 3: B								Pixel 3: G								Pixel 3: R								Pixel 2: B							
Word 1	Pixel 2: G								Pixel 2: R								Pixel 1: B								Pixel 1: G							
Word 0	Pixel 1: R								Pixel 0: B								Pixel 0: G								Pixel 0: R							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

5.5 RGB32 – Default BGR color components order

Blue-Green-Red-alpha 8-bit

ColorFormat	ColorComponentsOrder	PFNC	Storage type	Storage requirement
RGB32	BGR	BGRa8 or BGR8a32	PACKED	4 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical	RGB	RGB	RGB	RGB	Plane#	Plane name	Storage requirement
R	1	1	RGB	RGB	RGB	RGB	0	ARGB	4 Bytes/pixel
G	1	1	RGB	RGB	RGB	RGB	1	-	-
B	1	1	RGB	RGB	RGB	RGB	2	-	-
							3	-	-

Plane 0	Memory layout																															
Word 0	"0000 0000"								Pixel 0: R								Pixel 0: G								Pixel 0: B							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

5.6 RGB32 – Alternate RGB color components order

Red-Green-Blue-alpha 8-bit

ColorFormat	ColorComponentsOrder	PFNC	Storage type	Storage requirement
RGB32	RGB	RGBa8 or RGB8a32	PACKED	4 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
							Plane#	Plane name	Storage requirement
Component	Horizontal	Vertical	RGB	RGB	RGB	RGB	0	ARGB	4 Bytes/pixel
R	1	1	RGB	RGB	RGB	RGB	1	-	-
G	1	1	RGB	RGB	RGB	RGB	2	-	-
B	1	1	RGB	RGB	RGB	RGB	3	-	-

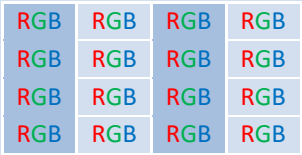
Plane 0	Memory layout																															
Word 0	"0000 0000"								Pixel 0: B								Pixel 0: G								Pixel 0: R							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

6 PLANAR R G B COMPONENTS

6.1 RGB24PL

Red-Green-Blue 8-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
RGB24PL	RGB8_Planar	PLANAR	3 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	R	1 Byte/pixel
G	1	1					1	G	1 Byte/pixel
B	1	1					2	B	1 Byte/pixel
							3	-	-

Plane 0	Memory layout																															
Word 0	Pixel 3: R								Pixel 2: R								Pixel 1: R								Pixel 0: R							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

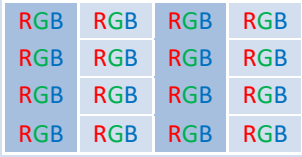
Plane 1	Memory layout																															
Word 0	Pixel 3: G								Pixel 2: G								Pixel 1: G								Pixel 0: G							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 2	Memory layout																															
Word 0	Pixel 3: B								Pixel 2: B								Pixel 1: B								Pixel 0: B							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

6.2 RGB30PL

Red-Green-Blue 10-bit unpacked planar

ColorFormat	PFNC	Storage type	Storage requirement
RGB30PL	RGB10_Planar	PLANAR	6 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	R	2 Bytes/pixel
G	1	1					1	G	2 Bytes/pixel
B	1	1					2	B	2 Bytes/pixel
							3	-	-

Plane 0	Memory layout																																							
Word 0	"0000 00"																Pixel 1: R								"0000 00"								Pixel 0: R							
Byte#	3								2								1								0															
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0								

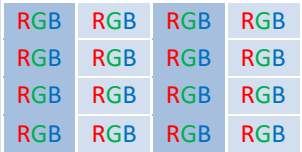
Plane 1	Memory layout																															
Word 0	"0000 00"								Pixel 1: G								"0000 00"								Pixel 0: G							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 2	Memory layout																															
Word 0	"0000 00"								Pixel 1: B								"0000 00"								Pixel 0: B							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

6.3 RGB36PL

Red-Green-Blue 12-bit unpacked planar

ColorFormat	PFNC	Storage type	Storage requirement
RGB36PL	RGB12_Planar	PLANAR	6 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	R	2 Bytes/pixel
G	1	1					1	G	2 Bytes/pixel
B	1	1					2	B	2 Bytes/pixel
							3	-	-

Plane 0	Memory layout																			
Word 0	"0000"								Pixel 1: R								"0000"			
Byte#	3								2								1			
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12

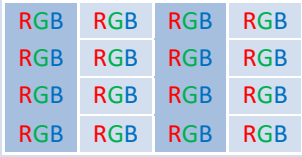
Plane 1	Memory layout																			
Word 0	"0000"								Pixel 1: G								"0000"			
Byte#	3								2								1			
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12

Plane 2	Memory layout																			
Word 0	"0000"								Pixel 1: B								"0000"			
Byte#	3								2								1			
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12

6.4 RGB42PL

Red-Green-Blue 14-bit unpacked planar

ColorFormat	PFNC	Storage type	Storage requirement
RGB42PL	RGB14_Planar	PLANAR	6 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	R	2 Bytes/pixel
G	1	1					1	G	2 Bytes/pixel
B	1	1					2	B	2 Bytes/pixel
							3	-	-

Plane 0	Memory layout																																															
Word 0	"00"								Pixel 1: R								"00"								Pixel 0: R																							
Byte#									3								2																1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

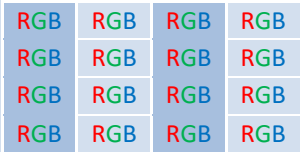
Plane 1	Memory layout																																																															
Word 0	"00"		Pixel 1: G																"00"		Pixel 0: G																																											
Byte#	3																2																1																0															
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																																

Plane 2	Memory layout																																																															
Word 0	"00"		Pixel 1: B																"00"		Pixel 0: B																																											
Byte#	3																2																1																0															
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																																

6.5 RGB48PL

Red-Green-Blue 16-bit planar

ColorFormat	PFNC	Storage type	Storage requirement
RGB48PL	RGB16_Planar	PLANAR	6 Bytes/pixel

Spatial sampling periods			Spatial map				Plane assignment		
Component	Horizontal	Vertical					Plane#	Plane name	Storage requirement
R	1	1					0	R	2 Bytes/pixel
G	1	1					1	G	2 Bytes/pixel
B	1	1					2	B	2 Bytes/pixel
							3	-	-

Plane 0	Memory layout																															
Word 0	Pixel 1: R																Pixel 0: R															
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

Plane 1	Memory layout																																															
Word 0	Pixel 1: G																Pixel 0: G																															
Byte#	3																2																1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																

Plane 2	Memory layout																																															
Word 0	Pixel 1: B																Pixel 0: B																															
Byte#	3																2																1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																

7 BAYER CFA

7.1 BAYER8

Bayer Green-Red 8-bit | Bayer Green-Blue 8-bit

Bayer Red-Green 8-bit | Bayer Blue-Green 8-bit

ColorFormat	PFNC	Storage type	Storage requirement
BAYER8	Bayer<xx>8 <xx> = {GR, RG, GB, BG}	N/A	1 Byte/pixel

Spatial sampling periods	Spatial map [ImageColorRegistration]	Plane assignment															
N/A		<table> <tr> <th>Plane#</th><th>Plane name</th><th>Storage requirement</th></tr> <tr> <td>0</td><td>BAYER</td><td>1 Byte/pixel</td></tr> <tr> <td>1</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>-</td><td>-</td></tr> </table>	Plane#	Plane name	Storage requirement	0	BAYER	1 Byte/pixel	1	-	-	2	-	-	3	-	-
Plane#	Plane name	Storage requirement															
0	BAYER	1 Byte/pixel															
1	-	-															
2	-	-															
3	-	-															

Plane 0	Memory layout																															
Word 0	Pixel 3								Pixel 2								Pixel 1								Pixel 0							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

7.2 BAYER10

Bayer Green-Red 10-bit unpacked | Bayer Green-Blue 10-bit unpacked

Bayer Red-Green 10-bit unpacked | Bayer Blue-Green 10-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
BAYER10	Bayer<xx>10 <xx> = {GR, RG, GB, BG}	N/A	2 Bytes/pixel

Spatial sampling periods	Spatial map	Plane assignment															
N/A		<table> <tr> <th>Plane#</th><th>Plane name</th><th>Storage requirement</th></tr> <tr> <td>0</td><td>BAYER</td><td>2 Bytes/pixel</td></tr> <tr> <td>1</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>-</td><td>-</td></tr> </table>	Plane#	Plane name	Storage requirement	0	BAYER	2 Bytes/pixel	1	-	-	2	-	-	3	-	-
Plane#	Plane name	Storage requirement															
0	BAYER	2 Bytes/pixel															
1	-	-															
2	-	-															
3	-	-															

Plane 0	Memory layout																															
Word 0	"0000 00"								Pixel 1								"0000 00"								Pixel 0							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

7.3 BAYER12

Bayer Green-Red 12-bit unpacked | Bayer Green-Blue 12-bit unpacked

Bayer Red-Green 12-bit unpacked | Bayer Blue-Green 12-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
BAYER12	Bayer<xx>12 <xx> = {GR, RG, GB, BG}	N/A	2 Bytes/pixel

Spatial sampling periods	Spatial map	Plane assignment															
N/A		<table> <tr> <th>Plane#</th><th>Plane name</th><th>Storage requirement</th></tr> <tr> <td>0</td><td>BAYER</td><td>2 Bytes/pixel</td></tr> <tr> <td>1</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>-</td><td>-</td></tr> </table>	Plane#	Plane name	Storage requirement	0	BAYER	2 Bytes/pixel	1	-	-	2	-	-	3	-	-
Plane#	Plane name	Storage requirement															
0	BAYER	2 Bytes/pixel															
1	-	-															
2	-	-															
3	-	-															

Plane 0	Memory layout																																							
Word 0	"0000"				Pixel 1																"0000"				Pixel 0															
Byte#	3								2								1								0															
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0								

7.4 BAYER14

Bayer Green-Red 14-bit unpacked | Bayer Green-Blue 14-bit unpacked

Bayer Red-Green 14-bit unpacked | Bayer Blue-Green 14-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
BAYER14	Bayer<xx>14 <xx> = {GR, RG, GB, BG}	N/A	2 Bytes/pixel

Spatial sampling periods	Spatial map	Plane assignment															
N/A		<table> <tr> <th>Plane#</th><th>Plane name</th><th>Storage requirement</th></tr> <tr> <td>0</td><td>BAYER</td><td>2 Bytes/pixel</td></tr> <tr> <td>1</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>-</td><td>-</td></tr> </table>	Plane#	Plane name	Storage requirement	0	BAYER	2 Bytes/pixel	1	-	-	2	-	-	3	-	-
Plane#	Plane name	Storage requirement															
0	BAYER	2 Bytes/pixel															
1	-	-															
2	-	-															
3	-	-															

Plane 0	Memory layout																															
Word 0	"00"		Pixel 1														"00"		Pixel 0													
Byte#	3							2							1							0										
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

7.5 BAYER16

Bayer Green-Red 16-bit | Bayer Green-Blue 16-bit

Bayer Red-Green 16-bit | Bayer Blue-Green 16-bit

ColorFormat	PFNC	Storage type	Storage requirement
BAYER16	Bayer<xx>16 <xx> = {GR, RG, GB, BG}	N/A	2 Bytes/pixel

Spatial sampling periods	Spatial map	Plane assignment															
N/A		<table> <tr> <th>Plane#</th><th>Plane name</th><th>Storage requirement</th></tr> <tr> <td>0</td><td>BAYER</td><td>2 Bytes/pixel</td></tr> <tr> <td>1</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>-</td><td>-</td></tr> </table>	Plane#	Plane name	Storage requirement	0	BAYER	2 Bytes/pixel	1	-	-	2	-	-	3	-	-
Plane#	Plane name	Storage requirement															
0	BAYER	2 Bytes/pixel															
1	-	-															
2	-	-															
3	-	-															

Plane 0	Memory layout																																							
Word 0	Pixel 1																Pixel 0																							
Byte#	3																2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0								

8 RAW DATA

8.1 RAW8

Raw 8-bit

ColorFormat	PFNC	Storage type	Storage requirement
RAW8	Raw8	N/A	1 Byte/data

Spatial sampling periods	Spatial map	Plane assignment		
N/A	N/A	Plane#	Plane name	Storage requirement
		0	RAW	1 Byte/data
		1	-	-
		2	-	-
		3	-	-

Plane 0	Memory layout																															
Word 0	Data 3								Data 2								Data 1								Data 0							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

8.2 RAW10

Raw 10-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
RAW10	Raw10	N/A	2 Bytes/data

Spatial sampling periods	Spatial map	Plane assignment		
N/A	N/A	Plane#	Plane name	Storage requirement
		0	RAW	2 Bytes/data
		1	-	-
		2	-	-
		3	-	-

Plane 0	Memory layout																															
Word 0	"0000 00"								Data 1								"0000 00"								Data 0							
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

8.3 RAW12

Raw 12-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
RAW12	Raw12	N/A	2 Bytes/data

Spatial sampling periods	Spatial map	Plane assignment		
N/A	N/A	Plane#	Plane name	Storage requirement
		0	RAW	2 Bytes/data
		1	-	-
		2	-	-
		3	-	-

Plane 0	Memory layout																																							
Word 0	"0000"				Data 1												"0000"				Data 0																			
Byte#					3								2												1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0								

8.4 RAW14

Raw 14-bit unpacked

ColorFormat	PFNC	Storage type	Storage requirement
RAW14	Raw14	N/A	2 Bytes/data

Spatial sampling periods	Spatial map	Plane assignment		
N/A	N/A	Plane#	Plane name	Storage requirement
		0	RAW	2 Bytes/data
		1	-	-
		2	-	-
		3	-	-

Plane 0	Memory layout																																			
Word 0	"00"		Data 1																"00"		Data 0															
Byte#	3								2								1								0											
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0				

8.5 RAW16

Raw 16-bit

ColorFormat	PFNC	Storage type	Storage requirement
RAW16	Raw16	N/A	2 Bytes/data

Spatial sampling periods	Spatial map	Plane assignment		
N/A	N/A	Plane#	Plane name	Storage requirement
		0	RAW	2 Bytes/data
		1	-	-
		2	-	-
		3	-	-

Plane 0	Memory layout																															
Word 0	Data 1																Data 0															
Byte#	3								2								1								0							
Bit#	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

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