

# Frequently Asked Questions

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## PixelFormat, PixelCoding, PixelSize


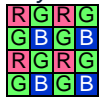




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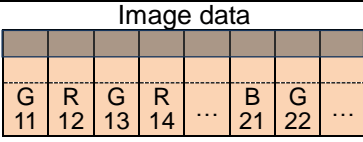
**TOSHIBA TELI CORPORATION**

Information contained in this document is subject to change without prior notice.

# 1. PixelFormat, PixelCoding, PixelSize

The following table shows information of PixelFormat available in TeliCamSDK, and relationship between PixelFormat, PixelCoding and PixelSize.

PixelFormat	Pixel Format ID	Pixel Coding	Pixel Size	Remarks																												
Mono8	0x01080001	Mono (0x00)	Bpp8 (0x08)	<div><div>msb</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td>Y</td><td>11</td><td>Y</td><td>12</td><td>Y</td><td>13</td><td>Y</td><td>14</td><td>...</td><td>Y</td><td>21</td><td>Y</td><td>22</td><td>...</td></tr></table></div>	Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...														
Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...																			
Mono10	0x01100003	Mono (0x00)	Bpp10 (0x0A)	<div><div>msb</div><div>Byte1</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Y</td><td>11</td><td>Y</td><td>12</td><td>Y</td><td>13</td><td>Y</td><td>14</td><td>...</td><td>Y</td><td>21</td><td>Y</td><td>22</td><td>...</td></tr></table></div>															Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...
Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...																			
Mono12	0x01100005	Mono (0x00)	Bpp12 (0x0C)	<div><div>msb</div><div>Byte1</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Y</td><td>11</td><td>Y</td><td>12</td><td>Y</td><td>13</td><td>Y</td><td>14</td><td>...</td><td>Y</td><td>21</td><td>Y</td><td>22</td><td>...</td></tr></table></div>															Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...
Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...																			
Mono16	0x01100007	Mono (0x00)	Bpp16 (0x10)	<div><div>msb</div><div>Byte1</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Y</td><td>11</td><td>Y</td><td>12</td><td>Y</td><td>13</td><td>Y</td><td>14</td><td>...</td><td>Y</td><td>21</td><td>Y</td><td>22</td><td>...</td></tr></table></div>															Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...
Y	11	Y	12	Y	13	Y	14	...	Y	21	Y	22	...																			
BayerGR8 <i>BayerFilter</i> 	0x01080008	BayerGR (0x60)	Bpp8 (0x08)	<div><div>msb</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td>G</td><td>11</td><td>R</td><td>12</td><td>G</td><td>13</td><td>R</td><td>14</td><td>...</td><td>B</td><td>21</td><td>G</td><td>22</td><td>...</td></tr></table></div>	G	11	R	12	G	13	R	14	...	B	21	G	22	...														
G	11	R	12	G	13	R	14	...	B	21	G	22	...																			
BayerRG8 <i>BayerFilter</i> 	0x01080009	BayerRG (0x63)	Bpp8 (0x08)	<div><div>msb</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td>R</td><td>11</td><td>G</td><td>12</td><td>R</td><td>13</td><td>G</td><td>14</td><td>...</td><td>G</td><td>21</td><td>B</td><td>22</td><td>...</td></tr></table></div>	R	11	G	12	R	13	G	14	...	G	21	B	22	...														
R	11	G	12	R	13	G	14	...	G	21	B	22	...																			
BayerGB8 <i>BayerFilter</i> 	0x0108000A	BayerGB (0x66)	Bpp8 (0x08)	<div><div>msb</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td>G</td><td>11</td><td>B</td><td>12</td><td>G</td><td>13</td><td>B</td><td>14</td><td>...</td><td>R</td><td>21</td><td>G</td><td>22</td><td>...</td></tr></table></div>	G	11	B	12	G	13	B	14	...	R	21	G	22	...														
G	11	B	12	G	13	B	14	...	R	21	G	22	...																			
BayerBG8 <i>BayerFilter</i> 	0x0108000B	BayerBG (0x69)	Bpp8 (0x08)	<div><div>msb</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td>B</td><td>11</td><td>G</td><td>12</td><td>B</td><td>13</td><td>G</td><td>14</td><td>...</td><td>G</td><td>21</td><td>R</td><td>22</td><td>...</td></tr></table></div>	B	11	G	12	B	13	G	14	...	G	21	R	22	...														
B	11	G	12	B	13	G	14	...	G	21	R	22	...																			
BayerGR10 <i>BayerFilter</i> 	0x0110000C	BayerGR (0x60)	Bpp10 (0x0A)	<div><div>msb</div><div>Byte1</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>G</td><td>11</td><td>R</td><td>12</td><td>G</td><td>13</td><td>R</td><td>14</td><td>...</td><td>B</td><td>21</td><td>G</td><td>22</td><td>...</td></tr></table></div>															G	11	R	12	G	13	R	14	...	B	21	G	22	...
G	11	R	12	G	13	R	14	...	B	21	G	22	...																			
BayerRG10 <i>BayerFilter</i> 	0x0110000D	BayerRG (0x63)	Bpp10 (0x0A)	<div><div>msb</div><div>Byte1</div><div>Byte0</div><div>lsb</div><div>Image data</div><table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>R</td><td>11</td><td>G</td><td>12</td><td>R</td><td>13</td><td>G</td><td>14</td><td>...</td><td>G</td><td>21</td><td>B</td><td>22</td><td>...</td></tr></table></div>															R	11	G	12	R	13	G	14	...	G	21	B	22	...
R	11	G	12	R	13	G	14	...	G	21	B	22	...																			

PixelFormat	Pixel Format ID	Pixel Coding	Pixel Size	Remarks
BayerGB10 <i>BayerFilter</i> 	0x0110000E	BayerGB (0x66)	Bpp10 (0x0A)	Image data msb Byte1 Byte0 lsb 
BayerBG10 <i>BayerFilter</i> 	0x0110000F	BayerBG (0x69)	Bpp10 (0x0A)	Image data msb Byte1 Byte0 lsb 
BayerGR12 <i>BayerFilter</i> 	0x01100010	BayerGR (0x60)	Bpp12 (0x0C)	Image data msb Byte1 Byte0 lsb 
BayerRG12 <i>BayerFilter</i> 	0x01100011	BayerRG (0x63)	Bpp12 (0x0C)	Image data msb Byte1 Byte0 lsb 
BayerGB12 <i>BayerFilter</i> 	0x01100012	BayerGB (0x66)	Bpp12 (0x0C)	Image data msb Byte1 Byte0 lsb 
BayerBG12 <i>BayerFilter</i> 	0x01100013	BayerBG (0x69)	Bpp12 (0x0C)	Image data msb Byte1 Byte0 lsb 
RGB8 (RGB8Packed)	0x02180014	RGBPacked (0x22)	Bpp24 (0x18)	Image data msb Byte0 lsb 
BGR8 (BGR8Packed)	0x02180015	BGRPacked (0x2A)	Bpp24 (0x18)	Image data msb Byte0 lsb 
RGB10 (RGB10Packed)	0x02300018	RGBPacked (0x22)	Bpp30 (0x1E)	Image data msb Byte1 Byte0 lsb 
BGR10 (BGR10Packed)	0x02300019	BGRPacked (0x2A)	Bpp30 (0x1E)	Image data msb Byte1 Byte0 lsb 
RGB12 (RGB10Packed)	0x0230001A	RGBPacked (0x22)	Bpp36 (0x24)	Image data msb Byte1 Byte0 lsb 
BGR12 (BGR12Packed)	0x0230001B	BGRPacked (0x2A)	Bpp36 (0x24)	Image data msb Byte1 Byte0 lsb 

PixelFormat	Pixel Format ID	Pixel Coding	Pixel Size	Remarks
YUV411Packed (YUV411_8_UYYVYY)	0x020C001E	YUV411Packed (0x42)	Bpp12 (0x0C)	<div> <div>msb</div> <div>Byte0</div> <div>lsb</div> <div> <div>msb</div> <div>lsb</div> <div>Image data</div> <div> <div>U</div><div>Y</div><div>Y</div><div>V</div><div>Y</div><div>Y</div><div>U</div><div>Y</div><div>...</div><div>U</div><div>Y</div><div>...</div> <div>11</div><div>11</div><div>12</div><div>11</div><div>13</div><div>14</div><div>15</div><div>15</div><div>...</div><div>21</div><div>21</div><div>...</div> </div> </div> </div>
YUV422Packed (YUV422_8_UYVY)	0x0210001F	YUV422Packed (0x4A)	Bpp16 (0x10)	<div> <div>msb</div> <div>Byte0</div> <div>lsb</div> <div> <div>msb</div> <div>lsb</div> <div>Image data</div> <div> <div>U</div><div>Y</div><div>V</div><div>Y</div><div>U</div><div>Y</div><div>V</div><div>Y</div><div>...</div><div>U</div><div>Y</div><div>...</div> <div>11</div><div>11</div><div>11</div><div>12</div><div>13</div><div>13</div><div>13</div><div>14</div><div>...</div><div>21</div><div>21</div><div>...</div> </div> </div> </div>
YUV444Packed YUV8_UYV	0x02180020	YUV444Packed (0x52)	Bpp24 (0x18)	<div> <div>msb</div> <div>Byte0</div> <div>lsb</div> <div> <div>msb</div> <div>lsb</div> <div>Image data</div> <div> <div>U</div><div>Y</div><div>V</div><div>U</div><div>Y</div><div>V</div><div>U</div><div>Y</div><div>...</div><div>U</div><div>Y</div><div>...</div> <div>11</div><div>11</div><div>11</div><div>12</div><div>12</div><div>12</div><div>13</div><div>13</div><div>...</div><div>21</div><div>21</div><div>...</div> </div> </div> </div>

## 2. Others

### 2.1. Revision History

Date	Version	Description
2016/05/24	1.0.0	Created the initial version

### 2.2. Disclaimer

The disclaimer of this document is described in “License Agreement TeliCamSDK Eng.pdf” in TeliCamSDK installation folder.

Make sure to read this Agreement carefully before using it.

Refer to TeliCamSDK installation folder/Documents/License folder