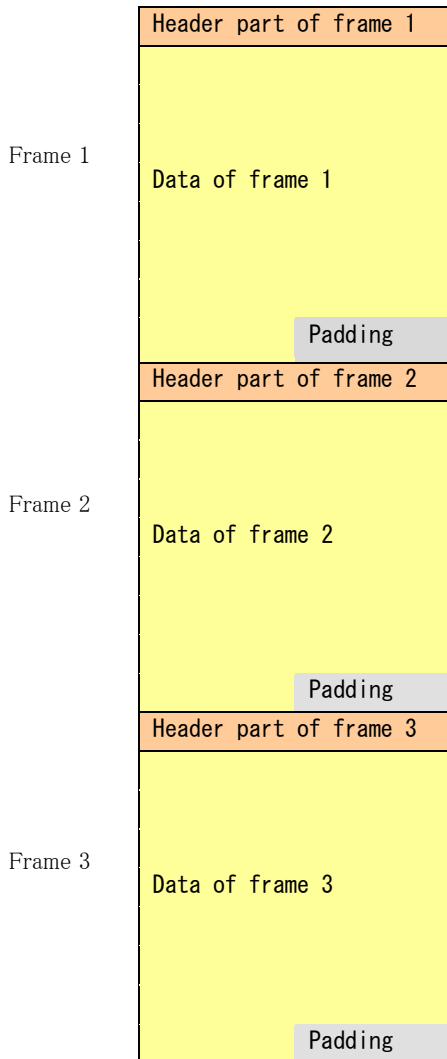


SVI picture file format



Header part constitution				
0-3	Image width			
4-7	Image height			
8-9	Gradation of the image (8,10,12)			
10-15	Reservation (0)			
16-19	Frame number (from 0)			
20-23	Frame data number of bytes (include padding)			
24-27	Image format (※)			
28-31	Time stamp (not use)			
32-39	Reservation (0)			
Data constitution				
Y(0, 0)	Y(1, 0)	...	Y(n-2, 0)	Y(n-1, 0)
Y(0, 1)	Y(1, 1)	...	Y(n-2, 1)	Y(n-1, 1)
Y(0, 2)	Y(1, 2)	...	Y(n-2, 2)	Y(n-1, 2)
Y(0, 3)	Y(1, 3)	...	Y(n-2, 3)	Y(n-1, 3)
Y(0, 4)	Y(1, 4)	...	Y(n-2, 4)	Y(n-1, 4)
Y(0, 5)	Y(1, 5)	...	Y(n-2, 5)	Y(n-1, 5)
:	:	:	:	:
Y(0, m-6)	Y(1, m-6)	...	Y(n-2, m-6)	Y(n-1, m-6)
Y(0, m-5)	Y(1, m-5)	...	Y(n-2, m-5)	Y(n-1, m-5)
Y(0, m-4)	Y(1, m-4)	...	Y(n-2, m-4)	Y(n-1, m-4)
Y(0, m-3)	Y(1, m-3)	...	Y(n-2, m-3)	Y(n-1, m-3)
Y(0, m-2)	Y(1, m-2)	...	Y(n-2, m-2)	Y(n-1, m-2)
Y(0, m-1)	Y(1, m-1)	...	Y(n-2, m-1)	Y(n-1, m-1)
Image format				
0	UYVY			
1	RGB565			
2	Y(RAW-8bit)			
3	YUY2(YUYV)			
4	VYU			
5	VYUY			
6	Y10(RAW-10bit)			
7	Y12(RAW-12bit)			
8	UYVY-16			
9	VYUY-16			
10	YUY12-16			

Example) Dump of top 112 bytes of FRM form data in RAW-10bit

	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F	0123456789ABCDEF
0000:0000	B4	02	00	00	07	02	00	00	0A	00	00	00	00	00	00	00
0000:0010	00	00	00	00	00	F6	0A	00	06	00	00	00	8C	00	00	00
0000:0020	00	00	00	00	00	00	00	00	0E	00	BE	00	FE	00	BE	00
0000:0030	7E	00	7E	00	7E	00	BE	00	FE	01	BE	01	BE	00	BE	00
0000:0040	FE	00	BE	00	3E	00	7E	00	FE	00	FE	00	BE	00	BE	00
0000:0050	FE	00	3E	00	BE	00	FE	00	7E	01	3E	01	FE	00	BE	01
0000:0060	7E	01	FE	01	FE	00	FE	00	BE	00	FE	00	FE	00	BE	00

The image data made by SVI system has a DAT form or an FRM form.

The DAT form records an image by a pixel clock unit. The DAT form is comprised of synchronization signal information 1 byte, a 2 bytes unit of image data 1 byte by a clock unit. For the record of the pixel clock unit, it can record it during the blanking period.

As for the FRM form, a header of 40 bytes was added to data output by image sensor every frame. The FRM form records the output data from a camera. Padding data is added to the number of bytes of the frame area of the FRM form to be divisible with 64. We recommend an FRM form to let you recode it by the SVI system in SVIview or SVOgenerator when I convert it into SVI format.

We show to the top details of the SVI picture file format of the FRM form.