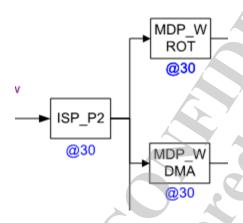


ISP P2 DMA port



- IMGI : input DMA
- MDP_WROT : output DMA
- MDP_WDMA : output DMA



IMGI

- Resolution:會切tile, HW 留13-bit: 0~8191
- Support format :

RAW	eImgFmt_BAYER8	elmgFmt_BAYER12
	elmgFmt_BAYER10	elmgFmt_BAYER10_MIPI
FULL G	elmgFmt_FG_BAYER8	eImgFmt_UFO_FG_BAYE R10
	eImgFmt_FG_BAYER10	eImgFmt_UFO_FG_BAYE R12
	elmgFmt_FG_BAYER12	
RAW_UNPAK	eImgFmt_BAYER8_UNPA K	eImgFmt_BAYER12_UNP AK
	elmgFmt_BAYER10_UNP AK	eImgFmt_BAYER14_UNP AK
RGB565	elmgFmt_RGB565	
RGB888	elmgFmt_RGB888	
RGB121212	elmgFmt_RGB48	
ARGB8888	elmgFmt_ARGB8888	
422 format, 1 plane	eImgFmt_YUY2	elmgFmt_UYVY
	eImgFmt_YVYU	elmgFmt_VYUY
420 format, 2 plane	elmgFmt_NV12	elmgFmt_NV21
422 format, 2 plane	eImgFmt_NV16	
420 format, 3 plane	elmgFmt_YV12	elmgFmt_I420
	FULL G RAW_UNPAK RGB565 RGB888 RGB121212 ARGB8888 422 format, 1 plane 420 format, 2 plane 422 format, 2 plane	RAW elmgFmt_BAYER10 elmgFmt_FG_BAYER8 elmgFmt_FG_BAYER10 elmgFmt_FG_BAYER12 elmgFmt_BAYER8_UNPA K elmgFmt_BAYER8_UNPA K elmgFmt_BAYER10_UNP AK RGB565 RGB888 elmgFmt_RGB565 RGB888 elmgFmt_RGB888 elmgFmt_RGB888 elmgFmt_ARGB8888 elmgFmt_ARGB8888 elmgFmt_ARGB8888 elmgFmt_YUY2 elmgFmt_YVYU 420 format, 2 plane elmgFmt_NV12 422 format, 2 plane elmgFmt_NV16

MDP_WROT

- Max resolution: 8192x8192
- Crop region is defined in source image domain; crop offsets (not width/height) can be sub-pixel.
- Scaling ratio: up to 64x; down to 1/20x
- WROT can rotate, flip
 - Rotate: 0, 90, 180, and 270 degrees
 - Flip: horizontal flip after rotation
- Support format :

Gray	Y Only	Y8	
Packed (1 Plane)	RGB565	RGB565	
		BGR565	
	RGB888	RGB888	
		BGR888	
	ARGB8888	RGBA8888	ARGB8888
		BGRA8888	ABGR8888
	YUV 4:2:2	UYVY	YUY2
		VYUY	YVYU
3 Plane	YUV 4:2:0	YV12	
		1420	
	YUV 4:4:4	YV24	
		1444	
2 Plane	YUV 4:2:0	NV12	
		NV21	
	YUV 4:2:2	NV16	
		NV61	

MDP_WDMA

- Max resolution: 8192x8192
- Crop region is defined in source image domain; crop offsets (not width/height) can be sub-pixel.
- Scaling ratio: up to 64x; down to 1/20x
- Image Format :

Gray	Y Only	Y8	
Packed (1 Plane)	RGB565	RGB565	
		BGR565	
	RGB888	RGB888	
		BGR888	
	ARGB8888	RGBA8888	ARGB8888
		BGRA8888	ABGR8888
	YUV 4:2:2	UYVY	YUY2
		VYUY	YVYU
3 Plane	YUV 4:2:0	YV12	
		1420	
	YUV 4:4:4	YV24	
		1444	
2 Plane	YUV 4:2:0	NV12	
		NV21	
	YUV 4:2:2	NV16	
		NV61	

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