

SONY

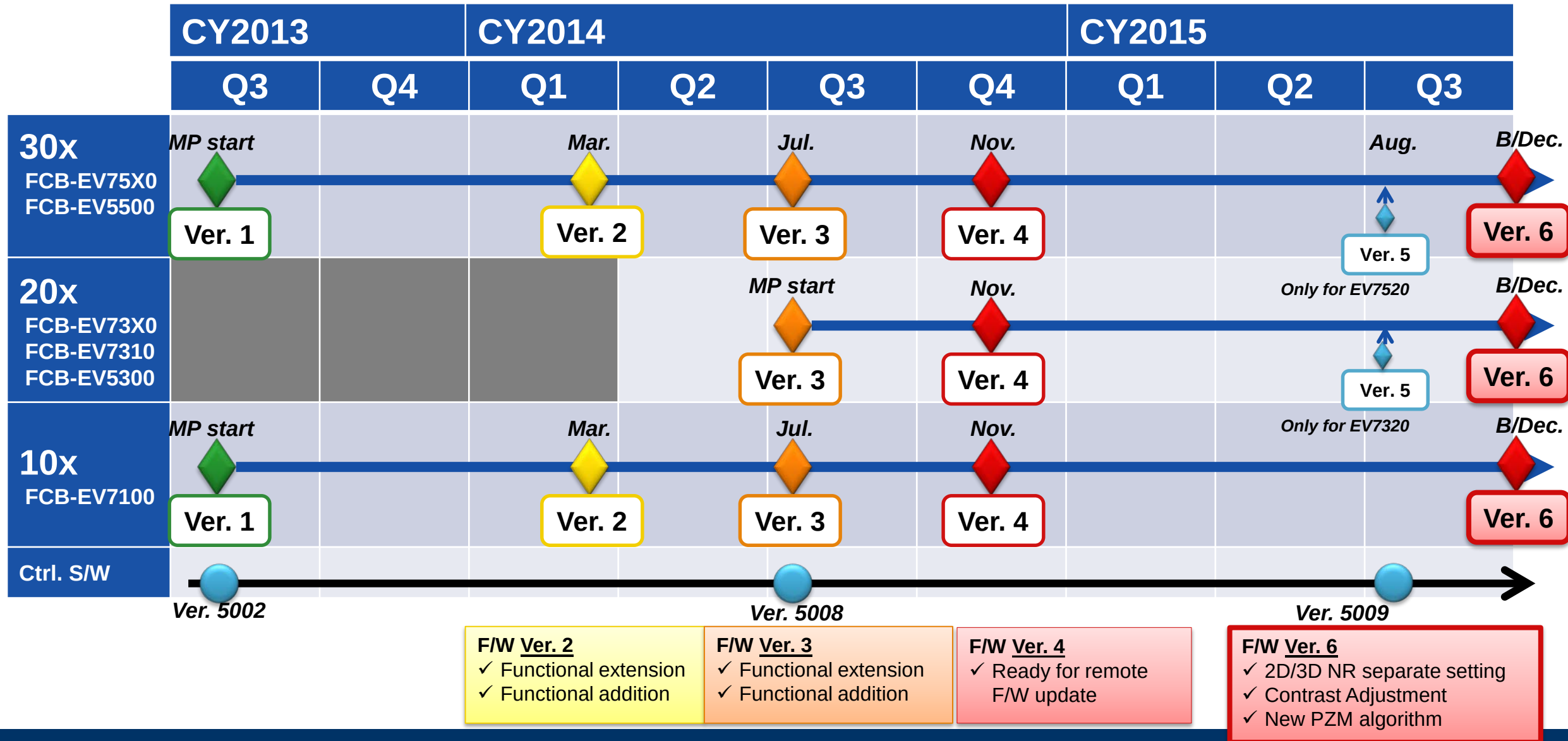
Firmware Upgrade: FCB-EV series

September 2015

Sony SES Europe

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Summary – FCB-EV Series F/W Upgrade history



Function Table

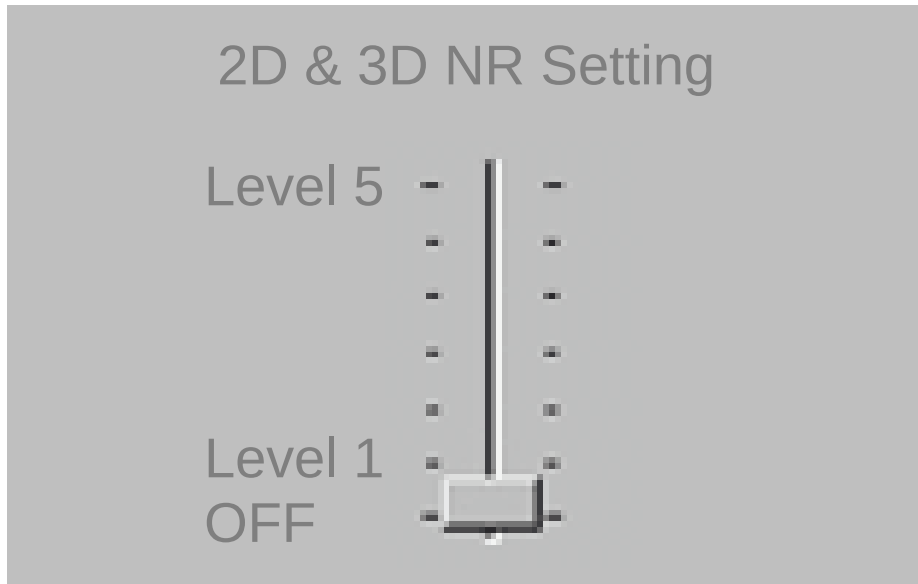
No	Function	Ver. 1	Ver. 2	Ver. 3	Ver. 4	Ver. 6
1	30.00/60.00fps Support	No	YES	YES	YES	YES
2	Low Latency Mode	No	YES	YES	YES	YES
3	Enhanced AE Control	No	YES	YES	YES	YES
4	Optimization for AF in low illumination	No	YES	YES	YES	YES
5	130dB WDR (from 90dB)	No	No	YES	YES	YES
6	HLC (High light compensation)	No	No	YES	YES	YES
7	Flexible Defog	No	No	YES	YES	YES
8	Default shutter speed control	No	No	YES	YES	YES
9	Firmware update by customer	No	No	No	YES	YES
10	2D / 3D NR separate setting	No	No	No	No	YES
11	Contrast Adjustments	No	No	No	No	YES
12	New Algorithm for Privacy Zone Masking	No	No	No	No	YES
13	New Algorithm for Image stabilizer	No	No	No	No	YES

Keeping provision of new function

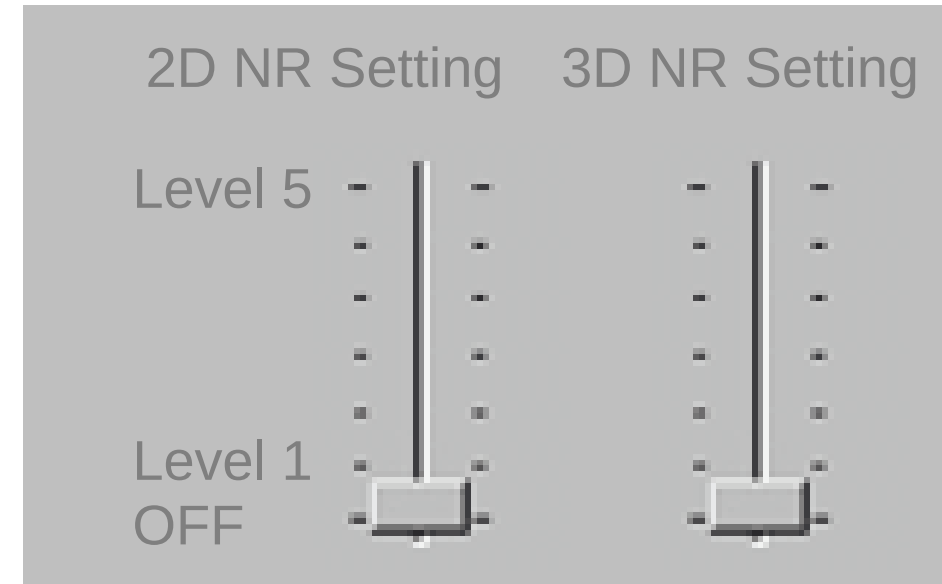
2D/3D NR separate setting New!

	Pros	Cons
2D NR	Good for moving object (no ghosting effect)	Light noise reduction Deduction of sharpness
3D NR	Strong noise reduction	Ghosting

Ver.5 or before

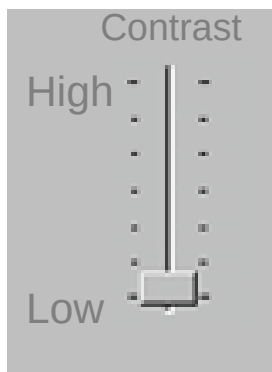


Ver.6

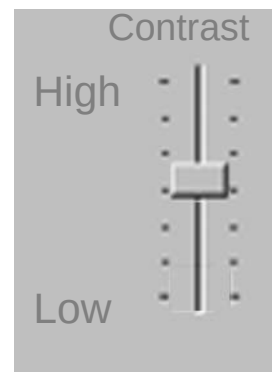


Contrast Adjustment ^{New!}

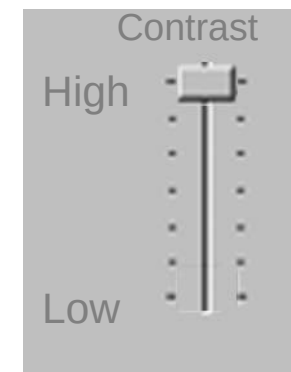
Easy Contrast Adjustment (1 command)



Easy Adjustment



Easy Adjustment



※This is concept pictures, not actual video output.

New Privacy Zone Masking Algorithm New!

Mask size can be reduced



Building to be hidden



※This is concept pictures, not actual video output.

2D/3D NR separate setting

Command Set	Command	Command Packet	Comments
CAM_NR	Noise Reduction	8x 01 04 53 pq FF	pq: NR level 00: Off 01: level1 02: level2 03: level3 (Default) 04: level4 05: level5 7F: 2D NR/3D NR separate
	2D NR/3D NR	8x 01 05 53 0p 0q FF	p: 2D NR Level (Default 3h, Min 0h, Max 5h) q: 3D NR Level (Default 3h, Min 0h, Max 5h)

Inquiry Command	Command Packet	Inquiry Packet	Comments
CAM_NRInq	8x 09 04 53 FF	y0 50 pq FF	pq: NR Level
CAM_NR2D3Dinq	8x 09 05 53 FF	y0 50 0p 0q FF	p: 2D NR Level q: 3D NR Level

Contrast Adjustment

Command Set	Command	Command Packet	Comments
CAM_ContrastAdjLevel	Direct	8x 01 05 5D 01 0p 0q FF	pq: Contrast Level 0 ~127 : Lower contrast 128 (Default) : no contrast adjustment 129~255 : High contrast

Inquiry Command	Command Packet	Inquiry Packet	Comments
CAM_ContrastAdjLevelInq	8x 09 05 5D FF	y0 50 0p 0q FF	pq :Contrast Level

This function is available in following condition.

- Gamma setting is 0 (standard).
- VE / WDR is off.

Serial numbers and introduction timing

Switching timing	Ver1.06	Ver2.0 (March, 2014)	Ver.3.10 (July, 2014)	Ver.4.0 (Nov., 2014)	Ver 5.0	Ver 6.0 (Dec , 2015)
S/N	X000001~	X005001~	X010001~	X015001~	(only for EV7520/7320 X000001~)	X040001~

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