

★ Under development

■ **CCD Peripheral ICs**

Model No.	Description	Features		TV standard	Package
LZ9GG32M	Single-chip driver (Timing generator + Synchronous signal generator)	For 220k-pixel CCD with single voltage operation(5V)	Electronic exposure, mirror image, for B/W CCDs	CCIR	48QFP*
LZ9GG18/M		For 190k/220k-pixel CCD with low-voltage operation(5V/12V)		EIA, CCIR	48QFP/48QFP*
LZ9GG33M		For 270k/320k-pixel CCD with low-voltage operation(5V/12V), For 270k/320k-pixel CCD			48QFP*
LZ95G82		For 410k/470k-pixel CCD	Electronic shutter 1/60(1/50) to 1/10 000, electronic exposure, for B/W CCDs	48QFP	
LZ95G90		For 220k-pixel CCD with single-voltage operation(5V)	Electronic exposure, mirror image	PAL	72QFP*
LZ95G83		For 190k/220k-pixel CCD with low-voltage operation(5V/12V)		NTSC, EIA, PAL, CCIR	
LZ95G80		For 270k/320k-pixel CCD with low-voltage operation(5V/12V)	Electronic shutter 1/60(1/50) to 1/10 000, electronic exposure, mirror image		
LZ95G55		For 270k/320k-pixel CCD			
LZ95G71		For 410k/470k-pixel CCD	Electronic shutter 1/60(1/50) to 1/10 000, electronic exposure		
★LR38516		Timing generator	For 350k/380k-pixel progressive scan CCD	Electronic shutter 1/4 to 1/10 000	30-frame/s
LZ93N61	For 270k/320k-pixel CCD		Electronic shutter 1/60(1/50) to 1/10 000	NTSC, EIA, PAL, CCIR	48QFP
LZ93BE0			For compact separate cameras	NTSC, PAL	20MFP
LZ95A58	For 410k/470k-pixel CCD				
LZ93B53	Synchronous signal generator	For 270k/320k-pixel CCD	Synchronous pulse and processing pulse generator, external synchronization, for B/W CCDs	EIA, CCIR	18MFP
LZ93N19			Synchronous pulse and processing pulse generator, external synchronization	NTSC, EIA, PAL, CCIR	44QFP
LZ95B25	Subcarrier generator	Color subcarrier generation circuit		NTSC, PAL	18MFP
LR36683N	V driver	Vertical pulse driver for CCDs, 2-level output x 2, 3-level output x 2		NTSC, EIA, PAL, CCIR	18MFP
IR3Y30M/M1	Signal processor	Single-chip signal processor, for B/W CCDs, built-in electronic exposure, H aperture, LPF, AGC, output amplifier		EIA, CCIR	48QFP/48QFP*
IR3P97		Built-in CDS, AGC, color separator, LPF, for color CCDs		NTSC, PAL	36QFP
IR3P81A		4 ch. processing, γ correction, white clip, for color CCDs			48QFP
IR3P82A		Y/C separation video output encoder, for color CCDs			
IR3P92		Y/C composite video output encoder, for color CCDs			
IR3P66		CDS IC (Note)	IR3P68 with 6dB variable gain invert-amplifier for digital processing use		NTSC, EIA, PAL, CCIR
IR3P68	Built-in fast clamper, high slew rate S/H				

* 0.5 mm pin-pitch

Note :In the case of using the signal processor IR3P97 or IR3Y30M/M1, the CDS IC IR3P66 or IR3P68 are not required.

In the case of using the synchronous signal generator LZ93N19, the subcarrier generator LZ95B25 is not required.