

# CCD Image Sensors

## ■ CCD Area Image Sensors

Use	Size	Color or B/W	Part No.	Effective* Pixel Count		Transfer System	Scanning method	Saturation Output typ. Note) (mV)	Sensitivity F8 typ. (mV)	V. Smear typ. (%)	H. Res typ. (TV)	V. Res typ. (TV)	Package	No.	
				H	V										
Movie	3.0 mm (1/6-type)	Complementary color	MN39165FD	962	654	IT	NTSC	700	149	0.003	330	350	WDIP014-P-0400F	C2	
			MN39265FD		774		PAL	600	153		480				
	MN39120FD		510	492	NTSC		700	190	330						
	MN39160FH		962	654	PAL		500	130	0.01	480	350				
	MN39235FH		724	582			700	240	420						
	MN39260FH		962	774	NTSC/PAL		550	100	0.01	800	—				
	MN39192FH		1 290	966			—	—	—	—					
Information & Communications	3.0 mm (1/6-type)	Primary color	MN39321PD	659	494	IT	PS	450	200	- 85 dB	—	—	WDIP014-P-0350A	C1	
Digital Still Camera	6.6 mm (1/2.72-type)	Primary color	MN39473PT	1 648	1 236	IT	IS	600	280	- 90 dB	—	—	WDIP016-P-0500C	C4	
	6.6 mm (1/2.7-type)		MN39480PJ	2 088	1 550			800	350		—	—	WDIP018-P-0400A	C5	
	7.2 mm (1/2.5-type)		MN39592PJ	2 088	1 550			550	300	- 95 dB	—	—	WDIP020-P-0500A	C7	
	7.2 mm (1/2.5-type)		MN39482PJ	2 336	1 744			800	350	- 90 dB	—	—	WDIP018-P-0400A	C5	
	9.0 mm (1/1.78-type)		MN39593PT	2 620	1 984			700	320	- 95 dB	—	—	WDIP020-P-0500A	C7	
Monitoring	4.5 mm (1/4-type)	B/W	MN39116AT	512	491	IT	EIA	900	650	0.008	360	350	WDIP014-P-0400F	C2	
			MN39216AT		581		CCIR	840	560			420			
	6.0 mm (1/3-type)		MN39143AT	771	492		EIA	1 400	750	- 100 dB	550	350	WDIP020-G-0600D	C4	
			MN39243AT	753	582		CCIR					420			
	4.5 mm (1/4-type)	Color	MN39116KT	512	491		NTSC	700	400	0.02	330	350	WDIP014-P-0400F	C2	
			MN39216KT		581		PAL	700	380			420			
	6.0 mm (1/3-type)		MN39143FT	771	492		NTSC	800	450	- 100 dB	480	350	WDIP016-P-0500C	C4	
			MN39243FT	753	582		PAL					420			
For broadcast and business	11 mm (2/3-type)	B/W (Three-plate type)	MW39540AE	966	492	IT	EIA	1 800	1 300	- 130 dB	720	350	WDIP020-G-0600D	C6	
			MW39640AE	954	585		CCIR					420			
			MW39580AE	1 936	1 086		FIT	HDTV	900	250	- 105 dB	1 100	760	WDIP032-G-0750C	C9
			MW39962AE						300	- 130 dB	WDIP032-G-0750			C8	

\*: Effective pixel count includes the transient pixels. [Symbol] IT: Interline Transfer system, FIT: Frame Interline Transfer system.

IS: Interlace Scan, PS: Progressive Scan

Note) The color one denotes carrier saturation.