

CCD Black-and-White Image Sensors for Security Cameras

Overview

Providing a variety of CCD Black-and-White Image Sensors for the security camera application field that is expanding for diversified purposes.

The industry's state-of-the-art technology employed ensures higher performance and expanded functions than those of conventional models, thus responding to a wide variety of needs.

Features

- Offering a lineup of models with 270k to 480k pixels in total
- Unique on-chip micro lens
- High sensitivity, a wide dynamic range
- A newly developed plastic package employed



Specifications

Part No.	Size	Nominal pixel count in total	Effective pixel count ^(*)		Transfer mode	Format	Saturation output Typ. (mV)	Sensitivity (F8.0) Typ. (mV)	Package
(H)	(V)								
MN39116AT	4.5 mm (Type-1/4)	270k	512	491	IT	EIA	900	650	WDIP014-P-0400F
MN39216AT	4.5 mm (Type-1/4)	320k	512	581	IT	CCIR	840	560	WDIP014-P-0400F
MN39143AT	6.0 mm (Type-1/3)	410k	771	492	IT	EIA	1400	750	WDIP016-P-0500C
MN39243AT	6.0 mm (Type-1/3)	480k	753	582	IT	CCIR	1400	750	WDIP016-P-0500C

(*): The effective pixel count includes the transient pixels.

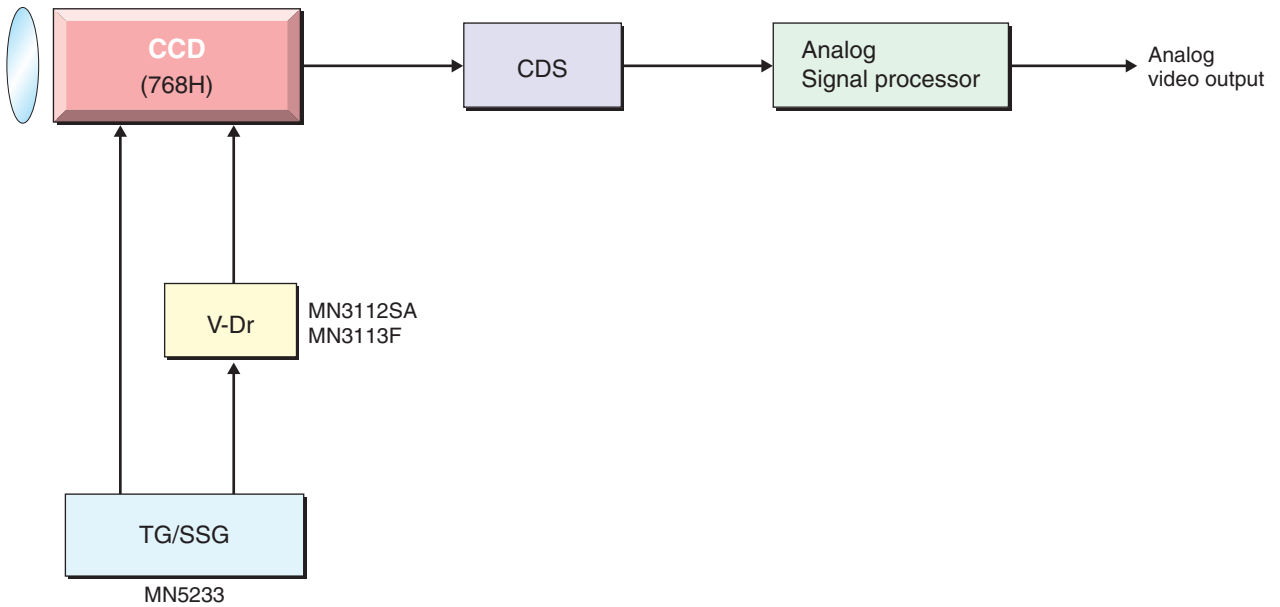
[Symbols] IT: Interline Transfer method

Peripheral ICs/LSIs

	Part No.	Operating voltage (V)	Process	Function	Package	Pin count
Timing generator	MN5233	5.0	CMOS	TG/SSG single-chip	QFP	48
Vertical driver	MN3112SA	5.0, 15.0, -7.0	CMOS	Multi-power supply type	SSOP	20
	MN3113F	5.0	CMOS	5 V single-power supply type	SSOP	44

System Configuration

CCD Camera System (I)



CCD Camera System (II)

