

Panasonic

Type-2/3 2.2M-Pixel CCD Image Sensor MW39580AE for DTV(1080i)

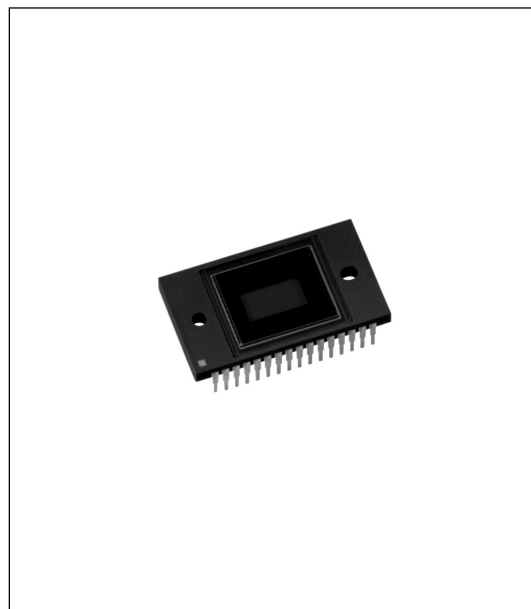
■ Overview

The MW39580AE is a type-2/3 2.2M-Pixel IT-CCD image sensor that supports the interlace 1080i HDTV video format.

Unlike FIT CCDs, the power consumption of IT CCDs, can be reduced because they require no storage area and high-speed transfer process.

Lower smear level has been achieved based on CCD technology for 1035i-format HDTV. Users thus perceive less noise and can successfully shoot night views and other low-light scenes.

Moreover, using this CCD extends the overall range of sensitivity of the camera, from dark to bright conditions, because a high S/N ratio can be obtained even from weak signals.



■ Feature

- Supporting the DTV format
- Low power consumption
- Broadcasting-grade lower smear level
- High S/N ratio and wide dynamic range
- High sensitivity
- High resolution
- High-reliability 32-pin ceramic package

■ Applications

- HDTV video format camera

■ Specifications and Characteristics

Optical format	Type-2/3 (11.0mm diagonal)
Total pixel number	2,010(H) × 1,086(V) = 2,182,860
Effective pixel number	1,920(H) × 1,080(V) = 2,073,600
Aspect ratio	16 : 9
Pixel size	5.0 μ m(H) × 5.0 μ m(V)
Sensitivity(F11)	120mV (typ.)
Saturation output voltage	650mV (typ.)
Smear	-100dB (typ.)
Package type	32-pin ceramic package

The products and specification are subject to change without any notice. Please ask for the latest Product Standards to guarantee the satisfaction of your product requirements.

Semiconductor Company, Matsushita Electronics Corporation