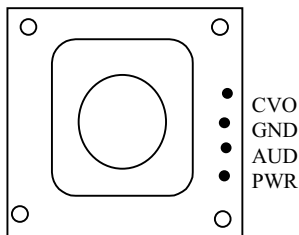


M3185M (CCIR) M3186M (EIA) B/W Camera Module w/mic

This is a family of products based on the most advance CMOS mixed signal technology. It integrates image array, signal processing, timing and control circuitry, all on a single chip. It is ideal for applications requiring a small footprint, low power and low cost.

Features:

- Small size : 29 x 29 mm
- Full resolution : 365K pixels
- Wide operation voltage (8 - 15V)
- Lens: f3.7mm F2.0
- Built in microphone
- High sensitivity microphone circuit
- Low power consumption (<200mW)
- Direct connect to standard video monitor
- On-chip auto exposure control
- Gamma correction - 0.45/1.0
- Auto gain control - 18dB
- Automatic black level calibration



Application Example

- Video conferencing
- Video Phone
- PC multimedia
- Security and Surveillance System
- Toys

Pin Description

1. CVO Composite Video Output
Direct connect to TV/Monitor
2. GND Common Ground for power and video
3. AUD Audio Output, connect to speaker or TV AV in
4. PWR Power Supply 8-15V DC

Specification

	M3185M(CCIR)	M3186M (EIA)
Imager	CMOS imager sensor OV7410	
Scanning	2:1 Interlace	
Shutter	1/60 to 1/15,000 sec	
Video Output	Composite video (75Ω)	
Picture Element	628 x 582 pixel	510 x 492 pixel
Effective Image Area	5.78 x 4.19mm	4.69x 3.54mm
S/N Ratio	>48dB (AGC on)	
Fixed Pattern Noise	<0.03% Vp-p	
Dark Current	<0.2nA/cm ²	
Dynamic Range	>72dB	
Min Illumination	0.5 Lux at f1.2 (3000K)	
Audio Output	1Vp-p	
Min Audio Input	10mV	
Operation Voltage	8 - 15 VDC	
Lens	F3.7mm F2.0, FOV 65° x 50°	

Application Circuit

