



ITM-M-21A (PAL) ITM-M-22A (NTSC)

B/W Camera Module with Microphone

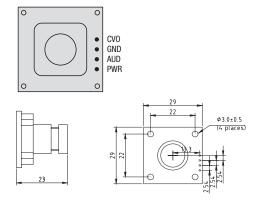


General Description

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, enabling all aspects of B/W video camera applications. It is ideal for applications requiring a small footprint, low power and low cost.

Features

Layout and Dimensions [in mm]



Application Example

Visual door phone \cdot Video conferencing Security and surveillance \cdot Portable security device Industrial machine monitoring \cdot Process control Video Phone \cdot Toys

Pin Description

	CVO	Composite video output, can be directly	
		connected to TV/monitor	
	GND	Common ground for power and video	
	AUD	Audio output, connect to speaker or TV audio in	
	PWR	DC Power supply 8V to 15V	

Specification

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Item	ITM-M-21A (CCIR)	ITM-M-22A (EIA)		
Imager	CMOS image sensor	CMOS image sensor		
Scanning	2:1 Interlace	2:1 Interlace		
Shutter	1/60 to 1/15,000 sec	1/60 to 1/15,000 sec		
Video Output	1V p-p composite video (75 Ω)			
Picture Element	(H)628 x (V)582	(H)510 x (V)492		
	365K pixel	250K pixel		
Effective image area	5.78 x 4.19mm	4.69 x 3.54mm		
S/N Ratio	>48dB (AGC on)	>48dB (AGC on)		
Min Illumination	0.5 Lux at f1.2	0.5 Lux at f1.2		
Resolution	400 TV line	400 TV line		
Iris Control	Electronic	Electronic		
Audio Output	1V p-p	1V p-p		
Min Audio Input	10mV	10mV		
Supply Voltage	8 – 15VDC	8 – 15VDC		
Connectors	Video output, Video	GND,DC power, GND		
Operating Temp	-10°C to 55°C	-10°C to 55°C		
Humidity Limits	0 - 95%	0 - 95%		
Lens (optional)	f3.7mm, F2.0, F0V 70° x 63°			
PCB Size	29 x 29 mm	29 x 29 mm		
Fixed Pattern Noise	<0.03% Vp-p	<0.03% Vp-p		
Dark Current	<0.2nA/cm ²	<0.2nA/cm ²		
Dynamic Range	>72dB	>72dB		