

Specification

Product Name: 1/4"CMOS color camera mdoule

Product Model: JDFH62 VER:100

Customer's P/N:

Date:

USER			MANUFACTURER		
Quality by	Engineer by	Authorized by	Prepared by	Checked by	Authorized by

Catalogue

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Version content

Date	Version	Content
2017-10-17	A0	First sample to be made by R&D Dept.

1. Profile:

JDFH62 CMOS camera module is comprised by 1/4" CMOS Image sensor, it applies to difference electric equipment that need capture video signal. such as PAL system, NTSC system, intelligent exposure, automatic white balance, dark Angle compensation, automatic detection and elimination of bad points, and 2D noise reduction. Customer custom OSD, digital wide dynamic; Intelligent exposure: pre-light compensation, backlight compensation, global detonation, central weight can be adjusted, CVBS/AHD/TVI/CVI/CVI in combination with high definition output.

2. Characters:

- Video output (1.00 +0.2 Vp-p/ 75 ohms)
- PAL system, NTSC system
- Intelligent exposure and automatic white balance
- Customer custom OSD

3. Application Area:

- Office electronic device
- Equipment & Instrument and measuring tools
- Machine equipment
- Supervising equipment (Car Monitor & Portable video capture and remote monitoring)
- Home supplies (Video door phone & video phone)

4. Electronic spec.:

Model No.: JDFH62		
Image sensor	1/4inch CMOS	
Signal system	PAL/NTSC	standard: PAL
Effective pixel	1292H×732V	
Synchronously	Built-in synchronization	
Horizontal resolution	CVBS: 700TVL; AHD: 1000TVL	
Pixel size	3.0um*3.0um	
S/N radio	45dB	
Min.LUX	0.01LUX(F:2.0)	
Exposure system	Before the light compensation, backlight compensation, global exposure, the center weight adjustable	
Electronic shutter	1/50(1/60)-1/10000S	
Gamma correction	>0.45	
Video output	CVBS+AHD+TVI+CVI	
white balance	Auto tracking white balance, manual white balance adjustment	
FPS	CVBS:25FPS(PAL)/30FPS(NTSC) AHD:60FPS	
Starting time	<500ms	
input voltage	DC12V ±25%	Max range: +7V~+16V
Power waste	Voltage:DC+12V; current:40mA±10mA	
Working Temp	-20℃ ~ 70℃	
Storage Temp	-40℃ ~105℃	
Relative Humidity	5~95% RH	
Direction of image display	Capture upright image when the board on that direction	
Size	38mm(L)×38 mm(W)×27.1 mm(H)(Compatible with 32 location hole)	
Normal lens parameters	Focal length	3.6mm
	Diagonal angle of view	101±3°
	horizontal view angle	77±3°
	vertical angle of view	57±3°
	Focusing distance	40cm(close);1.5M(far)
	Relative distortion	<-6%
	Spectral characteristics	650nm without IR

5. Reasonable test

NO	test items	testing conditions	Judgment										
1	High Temp. function test	+12VV, high temp.70℃； 8H aging test	Test is ok after 8H										
2	Low Temp. function test	+12V, low temp. -20℃： 8H aging test	Test is ok after 8H										
3	Temp.& Humidity test	Temp.:70℃； Humidity 93%；32H aging test	Test is ok after 32H										
4	High Temp. storage test	Temp.:105℃;8H	Product will be ok after normal temp.										
5	Low Temp storage test	Temp.: -40℃;8H	Product will be ok after normal temp.										
6	Life test	12V DC； Continuous on/off； 48H	Product will be ok after 48H impact test										
7	Discontinuous power supply test	Input 9V\12V\15V,turn on/off in every 5s,test 4H for each voltage	Every Voltage is normal after shock										
8	ESD test	Contact discharge:6.0KV Air discharge:8.0KV Horizontal/Vertical discharge:8.0KV	Function and appearance are all ok										
9	Vibration test	1. Vibration standard: (1).Direction: Y direction (2).Range:2mm (3).Frequency:10HZ to 50HZ (4).Surface:1surface fixed when testing another 3 surface (5). Time: 30mins./every surface	The camera structure &function is normal after vibration, all accessories& blister are ok.										
10	Drop test	1. Drop standard: (1). Floor: concrete floor steel plate (2). Direction: corner、 three sides、 six surface (3). Drop way: free falling (4). Height: according to the product's weight as follows: <table><tr><td>Weight</td><td>Height</td></tr><tr><td>0kg<W≤4.5kg</td><td>91cm</td></tr><tr><td>4.5kg<W≤11.8kg</td><td>76cm</td></tr><tr><td>11.8kg<W≤23.1kg</td><td>61cm</td></tr><tr><td>23.1kg<W≤45.4kg</td><td>46cm</td></tr></table>	Weight	Height	0kg<W≤4.5kg	91cm	4.5kg<W≤11.8kg	76cm	11.8kg<W≤23.1kg	61cm	23.1kg<W≤45.4kg	46cm	The camera structure and function is normal after dropped, all of accessories& blister are well.
Weight	Height												
0kg<W≤4.5kg	91cm												
4.5kg<W≤11.8kg	76cm												
11.8kg<W≤23.1kg	61cm												
23.1kg<W≤45.4kg	46cm												

7. Packing



Step1:use 8*9 bubble bag



Step 2: Use 5.6CM(L)*3.5CM(W)*4.4CM(H)Packing box



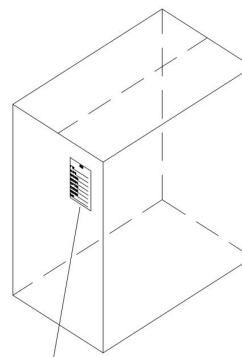
Step 3: put the board into packing box



Step 4: then packed and stick P/N No.



Step 5:put all the boxes to carton



Step 6: Stick label and packed the carton

8. Label

The outside information of each carton as follows:

Manufacturer'S code:
Order Number:
Material Specification:
Raw numbers:
Production date:
Delivery Quantity:
Delivery Date:
Guarantee period:
Remark:

9. Precautions:

- 1、The input voltage don't exceed the value stated on the specification , in order to avoid damage to the module.
- 2、The connector can't be reversed , reverse burn the board and affect the use of the product.
- 3、This is a electronic product, so processing, assembly , operation need to take anti -static measures to avoid affecting product performance.
- 4、Lens is glass product, place carefully to avoid breakage.
- 5、Lens is glass-made product, please take anti-dust, loss prevention measures to prevent the image quality.

10. naming rules for recognition

JDFH62—A36	VER:1.00	hardware version:1.00
		Lens: 3.6mm focal length (650nm)
		Scheme name
		Company code: XJD