

Industrial Color Vision Camera

CCD3 Vision

VJ-A

Proximity Sensors

Photoelectric

Measurement

Vision & Safety

* lens not included

SALIENT FEATURES

- C-Mount
- **PAL Output**
- DC lens control
- Horizontal 480 TVL 10 bit DSP Processor
- 752 x 582p CCD Sensor
- **Reversible Mounting Base**

Model Number Legend

VJ-A 🗆 🗆 1 2 3 4

1. Series

VJ

2. Type

A: 0.4megaPixel, PAL 3. Output

B: **BNC Out** BNC & Y/C Out V:

4. Power Connector

J: Jack Connector T: **Terminal Connector** H: Hirose 12 pin Connector

#. Accessories

Mounting Screws : 1 Set Sensor Cover : 1 No.

Example:

VJ-ABT

VJ Series - PAL Output Type, BNC Video out, with Terminal Connectors for Power.

NOTE: Contact us for models not shown in catalogue.

www.inno.sg/vj-a

Automation

Components

Ratings and Specifications

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Туре		Color CCD		
Madala	BNC	VJ-ABJ	VJ-ABT	VJ-ABH
Models	BNC & Y/C	VJ-AVJ	VJ-AVT	-
Image Sensor		1/3" Interline CCD - PAL: ICX409AK		
Sensor Size		5.59mm (H) x 4.68mm (V)		
Unit Cell Size		6.5μm (H) x 6.25μm (V)		
Resolution		752 (H) x 494 (V)		
Pixcel Clock Frequency		14 MHz		
Horizontal Frequency		15.5 KHz		
Vertical Frequency		50 Hz		
Scanning		2:1 Interlaced		
Output Level		1V p-p/ 75Ω		
Horizontal Resolution		480 TVL		
Minimum Illumination		0.17 Lux with F 1.2 lens		
S/ N Ratio		min 48dB		
Y Correction		0%		
White Balance	VJ-AB_	AWB (Auto White Balance) only		
Writte Balarice	VJ-AV_	Д	WB & White Balance Lock mode	S
Aperture Correction		On		
AGC		On		
Pixel Blemish Correction		On		
Flicker Compensation		On/ Off (DIP SW Selectable)		
Mirror Image		On/ Off (DIP SW Selectable)		
Backlight Compensation		On/ Off (DIP SW Selectable)		
Shutter Function		1/50, Electronic Iris (Dip SW selectable)		
Electronic Iris		1/50 - 1/100,000 sec		
Auto Iris Lens Driver		Yes (VJ-ABJ/ VJ-ABT only)		
Iris Current Consumpt	tion	max. 220mA (higher Iris units are not compaitable)		
Power Supply		12 VDC ±10%		
Current Consumption		max. 180mA		
Insulation Resistance		$50~\text{M}\Omega$ min. (at 500 VDC) between case and lead wire		
Shock Resistance		4G, 3 times each in direction of X, Y and Z		
Vibration Resistance		0.5mm amplitude at 10-50 Hz for 2 hours each in direction of X, Y and Z		
Ambient Temperature		Operation: 0° ~ 40°C; Storage: -10° ~ 50°C (non-freezing; non-condensing)		
Ambient Humidity		Operation: 30 ~ 80% RH; Storage: 35 ~ 85% RH (non-condensing)		
Protection Class		IP 40 (after connection & attaching lens)		
Weight		aprox. 100g		
Material		Powder coated Aluminium		

All standard C/ CS- Mount lenses are compaitable with the camera. Recomended usage - Kowa, LM Series Lens. (www.kowa-usa.com)

◆ Dual Output & Iris Control

The VJ-AV_ models have dual mode outputs both BNC & Y/C for adder interface convenience.

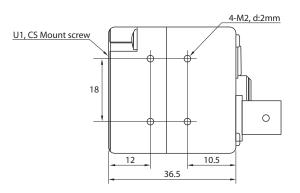
The VJ-AB_ models feature DC Iris Lens control with power and level, removing the need for a seperate Lens power supply and controller, thus significantly reducing the cost and footprint of the Vision system.

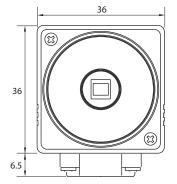
◆ Built-in Image Compensation!

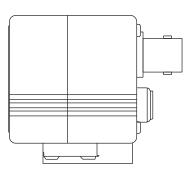
The VJ-A series comes with AWB (Auto White Balance), Aperture Correction, AGC, Blemish & Flicker compensation and Image mirroring built-in this helps in stable image output under varying conditions..

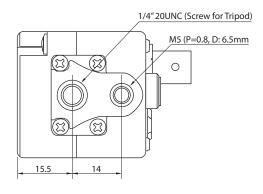
Also included is the backlight compensation and shutter variation function for auto-adjustment of image under minor lighting variations.

Sensor Dimension Drawing





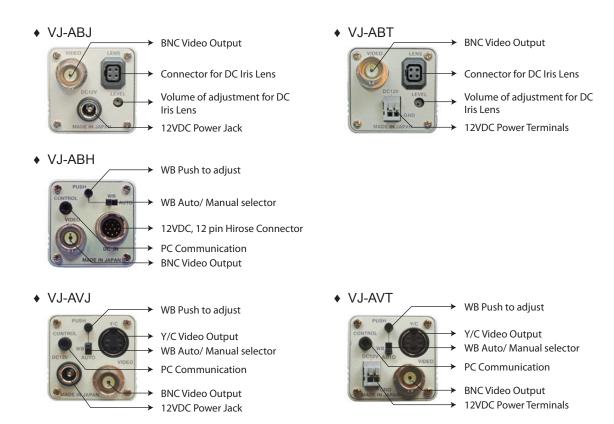




All dimensions are in mm

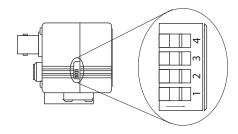
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Nomenclature VJ-A



Settings and Adjustments

Dip Switch is provied on the side face of the Camera unit, this is toggled between On & Off position to acheive different image compensation settings.



Dip SW	OFF Position	ON Position	
4	Back Light Compensation: OFF	Back Light Compensation: ON	
3	Flicker Compensation: OFF	Flicker Compensation: ON	
2	Electronics Iris [1/60 (1/50) to 1/100,000]	Fixed Shutter [1/50]	
1	Normal Image	Mirror Image	

Exclusively Represented by:

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