

# **AK-035-1**

## 

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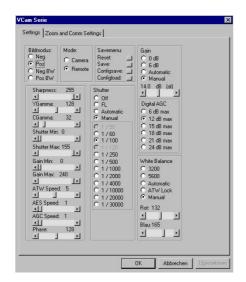
#### 1 Features:

- Board Size 32x32mm + 42x42mm Stack
- 1/3" CCD Color DSP Camera
- High Sensitivity (0,25Lux at Max Gain +48dB)
- Y/C output as standard
- 3 types of External sync. selectable
- Digital Zooming available (Stand. 4x)
- Various mode setting available by Jumper Land
- RS-232C control available through R/C unit

### external parameter control (optional):

In delivery condition the camera in automatik mode. It is not external control necessary.

A separate connector (the cable is not provided with the camera, order nr.: WK 031) control the camera parameters via an RS232 and PC. The PC-software (Win9x/Win2000/WinNT, is included with the cable) loads the settings up to the camera. The settings can be stored permanently in the camera. The describtion of camera parameters are in the software manual of control program.



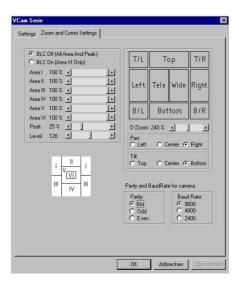


Figure 1: controlprogram for VCAM-1-series

# 2 Specifications (Factory setting mentioned in Gothic letter):

Image sensor : 1/3" color CCD sensor (Sony ICX-059CK)

TV signal system : PAL

Effective pixels  $: 752 \text{ (H) } \times 582 \text{ (V)}$ 

Video Output : VBS (1Vpp, 75 Ohm), Y/C separate

Scanning System : 2 : 1 Interlace Synchronization : Internal / External

External Sync. : VS/VBS or Sync. or HD/VD or Line Lock

Horizontal resolution : 450 TV lines or greater at Y-signal

Gamma correction : 0.45

Min. Illumination : **Standard 0.5 Lux** (at AGC=ON +39dB, F1.4)

: Minimum 0.25 Lux (at AGC=ON +48dB, F1.4)

S/N ratio : 50 dB or more (AGC= OFF)

AGC : **39 dB Max.** (Analog 24dB + Digital 15dB)

: Selectable 8 modes by Jumper (Max. +48 dB)

Electronic Iris/Shutter: E. Iris ON:1/50-1/30,000sec., FL:1/120sec.,

: OFF:1/50sec., shutter speed settable by Jumper

White Balance : ATW ON (2600°K-9000°K) / OFF / selectable

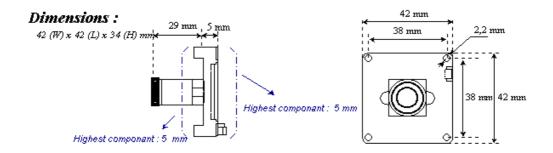
BLC : **OFF** / ON (Center) selectable

Temperatures : 0 to +40 deg.C (-5 to +50 deg.C at working )

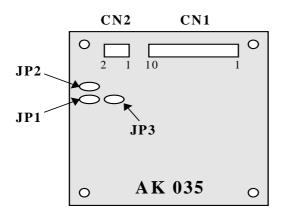
Storage-Temperatures: -25 to +60 deg.C

Standard Built-in Lens: Fixfocus f=5.6mm F3.0 Dimensions : 42(W) x 42(L) x 34(H) mm

Weigh : Approx. 35 g (with f=5.6mm lens)



## 3 Connector Pin Assignment



### **CN 5:**

O	•	
1.	white	Y output
2.	white	C output
3.	yellow	IRIS output
4.	blue	SYNC / HD input (Ext. Sync)
5.	black	GND
6.	blue	ExtVD input (Ext. Sync)
7.	black	GND
8.	white	VIDEO (FBAS) output
9.	black	GND (DC)
10.	red	POWER input (DC +12V)

### **CN 7:**

1.	GND
2.	Remote (RS-232)

## **Jumper-land Setting**

	Function	Open factory set	22kOhm	short
JP 1	AGC/Gain	ON / +39dB	OFF	ON / +24dB
JP 2	Shutter	ON elec. Iris	OFF 1/120s fixed	ON 1/50s fixed
JP 3	WB/BLC	ATW ON	ATW LOCK	ATW ON
		BLC OFF		BLC ON
JP 4	Dig. Zoom	Stop	Tele side	Wide side

More adjustments are possible with resistors combinations in jumper land (OEM).

The connector CN2 in front of the camera, is used for DC-controlled IRIS (OEM).

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