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Find the *JAI / Pulnix JAI-M1250K* at our website: ***Click HERE***

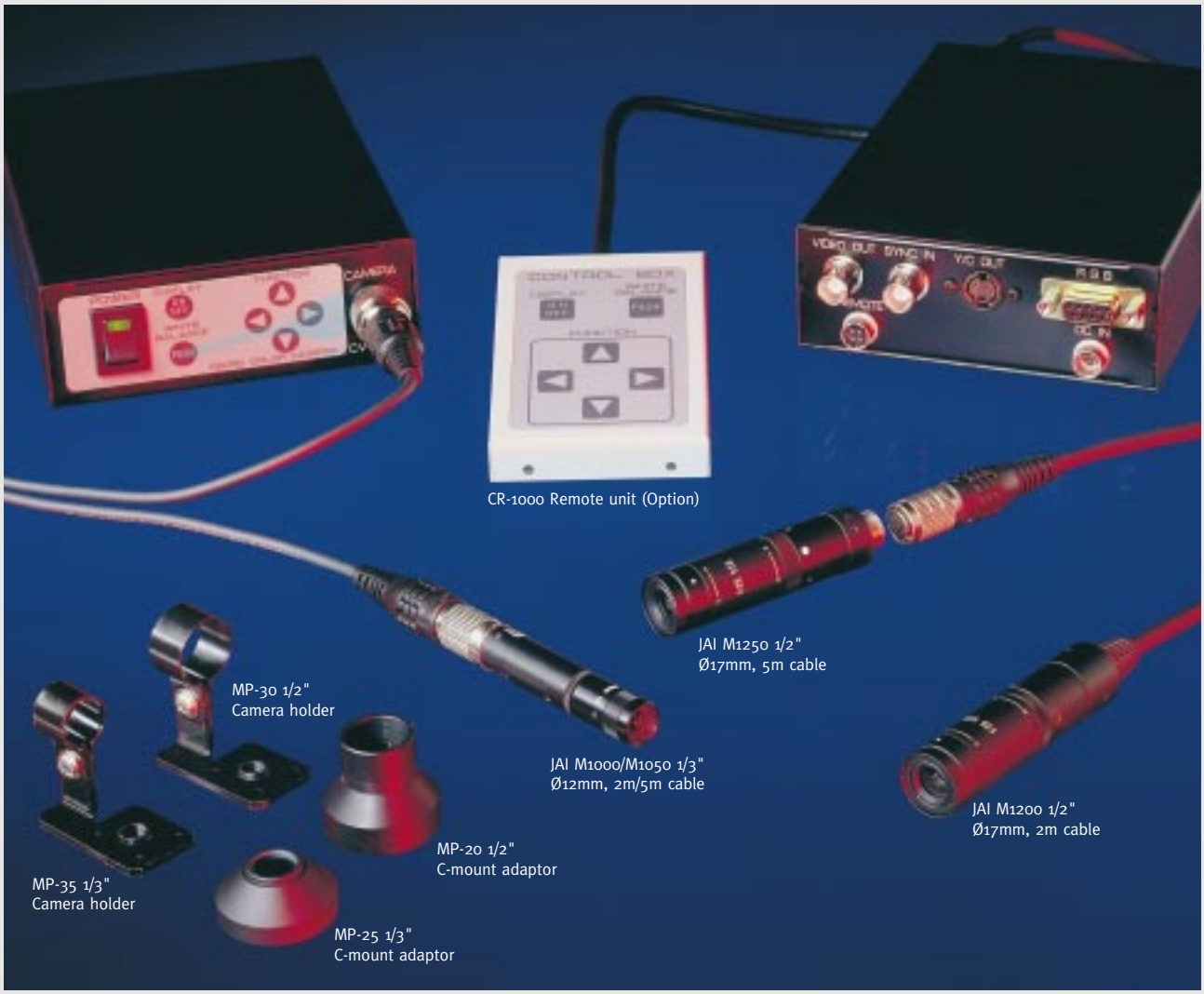
MICRO HEAD CCD CAMERAS



- *Complete Range - Colour and Monochrome*
- *2nd Generation DSP (Digital Signal Processing)*
- *Ø 12mm or Ø 17mm Camera Head*
- *High Resolution Colour 450 TV Lines (440.000 pixels)*
- *Y/C (S-video) and RGB Outputs Provided*
- *Backlight Compensation - 2 patterns selectable*
- *Negative/Positive Colour Reversal*
- *On-screen Menu for Fast Camera Set-up*
- *Wired Remote Control (Option)*
- *Camera Set-up from PC Via RS232C*

The leading manufacturer in affordable high-performance

JAI M1000/M1200 SERIES



NEW 2nd Generation DSP

The JAI 3000 series is the latest in advanced colour micro head CCD cameras. Ultra-compact micro head adopting 2nd generation DSP technology brings the maximum in image quality.

Applications

- **Endoscopic vision**
- **Video microscopy**
- **Inspection**
- **Non destructive inspection**
- **Medical systems**
- **Robotics**
- **Machine vision**
- **Image processing**

Features

Digital quality for high resolution, low noise and enhanced image.

Micro head Ø12mm for 1/3" sensor - Ø17mm for 1/2".

On Screen Display for easy set-up or optional remote unit or personal computer (IBM PC/AT).

Y/C (S-video) and RGB outputs provided as standard.

Backlight compensation - two detection patterns.

Negative/Positive colour reversal function supporting versatile appli-cations for the industry, such as printing, multi-media, medical etc.

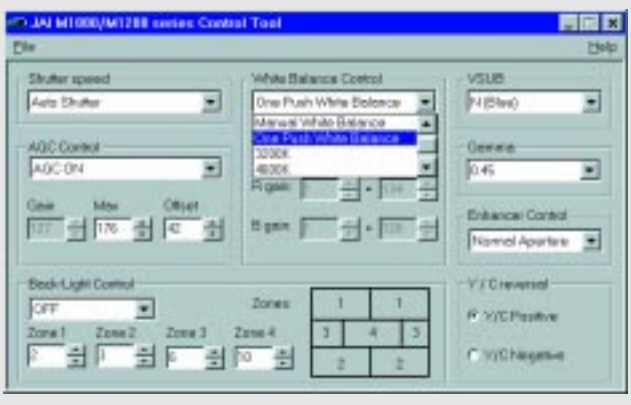
RS 232C Serial Control

RS 232C serial interface

This unique camera control tool makes it posible to adjust and optimize all primary parameters for the M1000/M1200 series.

Further a complete communication library has been developed. The library is implemented as a 32 bit DLL for Windows 95/NT.

COM1-COM9, 9600 Baud.



MICRO HEAD CCD CAMERAS

JAI 2070 Colour 1/2"



• Compact affordable colour micro head CCD camera • 1/2" HAD sensor • High resolution • High sensitivity • Electronic shutter • Y/C (S-VHS) • 2m cable • 7,5 mm lens optional

JAI 2072 Colour 1/2"



• Separate micro head 1/2" colour CCD camera• High resolution • High sensitivity • Electronic shutter • Y/C (S-VHS) • 5m cable • Detachable head • One push white balance • 7,5 mm lens optional

JAI 30SH/31SH B/W 1/2"



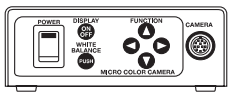
• 1/2" high resolution monochrome (Hyper HAD) • 570 TV-lines resolution • 2:1 interlace/non interlace scan • Long-time exposure available • Variable electronic shutter speeds • Field or frame storage selectable • Gamma 1.0 or 0.45 selectable • 12-pin Hirose standard connector • Accepts C-mount • 0.5 m cable (30SH) - 2 m cable (36SH)

JAI 36SH/38SH/39SH B/W 1/2"

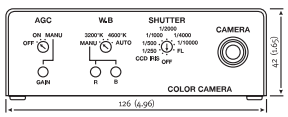


• 1/2" high resolution monochrome (Hyper HAD) • 570 TV-lines resolution • 2:1 interlace/non interlace scan • Long-time exposure available • Variable electronic shutter speeds • Field or frame storage selectable • Gamma 1.0 or 0.45 selectable • 12-pin Hirose standard connector • 2 m cable (36SH)/5 m cable (38SH) • 10 m cable (39SH) • Special miniature lens (option)

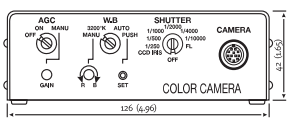
Front panel JAI M1000 series



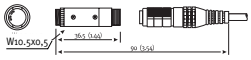
Front panel JAI 2070



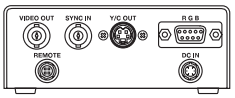
Front panel JAI 2072



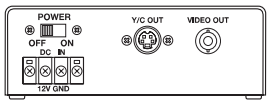
Camera head JAI M1000, M1050



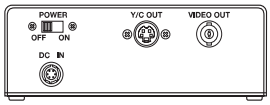
Rear panel JAI M1000 series



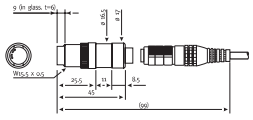
Rear panel JAI 2070



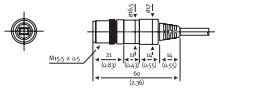
Rear panel JAI 2072



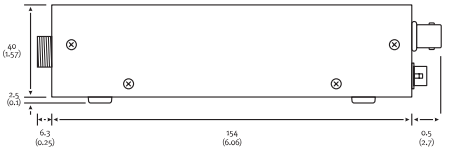
Camera head JAI 38SH, 39SH, M1250, 2072



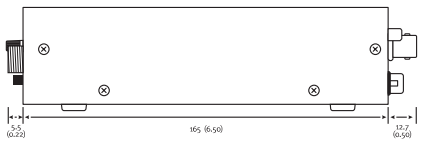
Camera head JAI 36SH, 2070, M1200



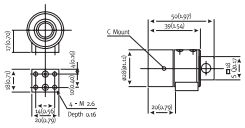
Side JAI M1000 series



Side JAI 2070, 2072



Camera head JAI 30SH, 31SH



SPECIFICATIONS

Type No.		JAI M1000	JAI M1050	JAI M1200	JAI M1250	JAI 2070	JAI 2072	JAI 30SH/ 31SH	JAI 36SH/ 38SH/39SH
		Colour							
CCD Sensor		1/3" HAD Interline Transfer CCD sensor		1/2" HAD Interline Transfer CCD sensor (microlenses)					
Picture Elements		PAL/CCIR: 752H x 582V – NTSC/EIA: 768H x 494V							
Sensing Area		4.9H x 3.7V mm		6.45H x 4.84V mm					
Scanning System		NTSC: 525/60Hz, 2:1 Interlace PAL: 625/50Hz, 2:1 Interlace						EIA/CCIR 2:1 Interlace or Non Interlace	
Synchronization		Internal or External (VS sync)				Internal		Internal or External HD & VD 75 omhs	
Scanning Frequency		PAL/CCIR: 15.625KHz (H) / 50.0Hz (V) – NTSC/EIA: 15.734KHz (H) / 59.94Hz (V)							
Horizontal Resolution		450 TV-lines						570 TV-lines	
Electronic Shutter		1/60(1/50), 1/125, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 sec. (CCD IRIS Auto electronic shutter: 1/60 ~ 1/100,000 sec.)				1/60(1/50), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 sec. (CCD IRIS)		1/60 (1/50) ~ 1/10,000 sec. at 8 positions switchable	
Set-up Level								0mV or 20mV selectable	
Long-time Exposure								internal mode setting	
Minimum Illumination (AGC ON)		0.4 Lux on sensor				0.5 Lux on sensor		0.5 Lux F1.4	
Sensitivity		1000 Lux at F8.0, 3200°K							
S/N Ratio (AGC OFF)		Greater than 48 dB				Greater than 48 dB		Greater than 54 dB	
White Balance		Manual, 3200°K, 4600°K, 5600°K, AUTO TRACKING, ONE-PUSH AUTO				Auto 3200°K, 4600°K, manual			
Gamma		1.0, 0.6 or 0.45 selectable				0.45		1.0 or 0.45	
Gain Control		VIA RS232C				Auto/manuel ±6dB		Internal adjustment	
Video Output		VBS (NTSC/PAL), RGB, Y/C (S-VIDEO)				VBS (1.0Vp-p), Y/C		VBS 1.0Vp-p, 75 ohms	
AGC (Automatic Gain Control)		On (0~8dB)/off				On			
Backlight Compensation		Provided, Pattern 1 or 2 selectable							
Negative/Positive Reversal		Provided							
ON-SCREEN digital camera set-up		Touch pad on front panel. Remote Control Unit or PC/AT via RC232C (9600 baud)							
Lens Mount		Special mount + C-mount adaption						C-mount	Special
Ambient Temperature		-10°C ~ +50°C (14°F ~ 122°F)							
Power Requirement		12V DC ±10%							
Power Consumption		4.5W				4.1W		2.7W	
Camera Head	Diameter	Ø12mm		Ø17mm				Ø28mm	Ø17mm
	Connector	Yes		No	Yes	No	Yes	No	No/Yes
Camera Cable		2m detachable	5m detachable	2m fixed	5m detachable	2m fixed	5m detachable	0.5m/2m fixed	2m/5m/10m fixed/det.a.
Weight	Camera head	9 g	9 g	15 g	15 g	15 g	15 g	70 g	15 g
	Control unit	560g	560g	560g	560g	680 g	680 g	230 g	230 g
Order No.	PAL / CCIR (NTSC available)	70002019	70002021	70002022	70002023	70002007	70002012	70001007/ 70001018	70001010/ 70001016 70001033

Accessories:

12 V DC power supply colour cameras	JAI no. 21034010	MP-20 1/2" C-mount adaptor	JAI no. 70009000
12 V DC power supply monochrome cameras	JAI no. 21034011	MP-25 1/3" C-mount adaptor	JAI no. 70009002
7,5 mm 1/2" standard micro-lens	JAI no. 70007003	MP-30 1/2" Camera bracket	JAI no. 70009020
6,0 mm 1/3" standard micro-lens	JAI no. 70007004	MP-35 1/3" Camera bracket	JAI no. 70009021
Remote Control unit (CR 1000)	JAI no. 70009022	RS 232C Cable to PC	JAI no. 07011102
Remote Unit, switch type (CR 1100)	JAI no. 70009023		

CE approval According to standards: Emission EN 50 081-1: 1992 Immunity prEN 50 082-1: 1994

Distributed by:

JAI A-S
Produktionsvej 1
DK 2600 Glostrup
Copenhagen, Denmark
Tel. +45 4291 8888
Fax +45 4291 8880

JAI Ltd.
UNITED KINGDOM
Tel. +44 1 442 879669
Fax +44 1 442 879281

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