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TECHNOLOGY GROUP

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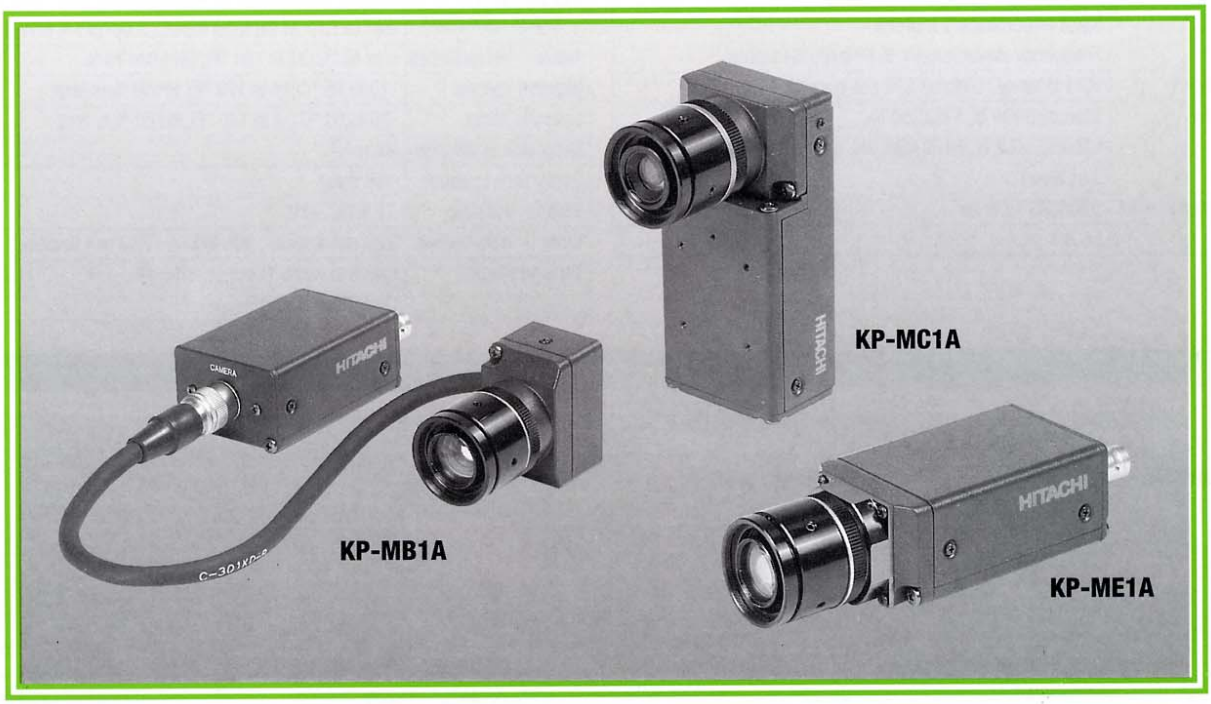
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HITACHI

Hitachi Black and White CCD Cameras

KP-M1A Series



- **Head w/seperate camera electronics types : KP-MB1A**
- **Side view type : KP-MC1A**
- **Adjustable back focus type : KP-ME1A**

Features

- To meet the diverse requirements for small, light weight black and white cameras, three additional models have been developed of the KP-M1A Type Camera, Development of additional models will be considered depending on the customer's requirements and the quantity involved.
- The KP-MB1A Camera offers an extremely compact(30cm^3) and lightweight(50 grams) camera head by separating the lens and CCD assembly from the camera electronics. The maximum length the lens/CCD assembly can be extended from the camera electronics is 1m. The size and weight of the camera head are ideal for mounting on optical instruments.
- With the KP-MC1A model, the lens/CCD asembly is rotated by 900 from the normal position greatly reducing the front to back depth of the camera. This camera is the solution for those applications, such as machine vision, where little depth exists for camera mounting.
- The KP-ME1A Camera provides a lens back focus adjustment necessary if zoom lense are to be used. The KP-ME1A can be used in any application requiring zoom lenses.
- The KP-M1A Series inheries the high picture quality, high perfomance and functions of the standard KP-M1A(M1AP) Camera, Refer to the catalog for the standard KP-M1A(M1AP) brochure for more information. This versatility, picture quality, high performance and features male the KP-M1A Series ideal for a wide range of applications.

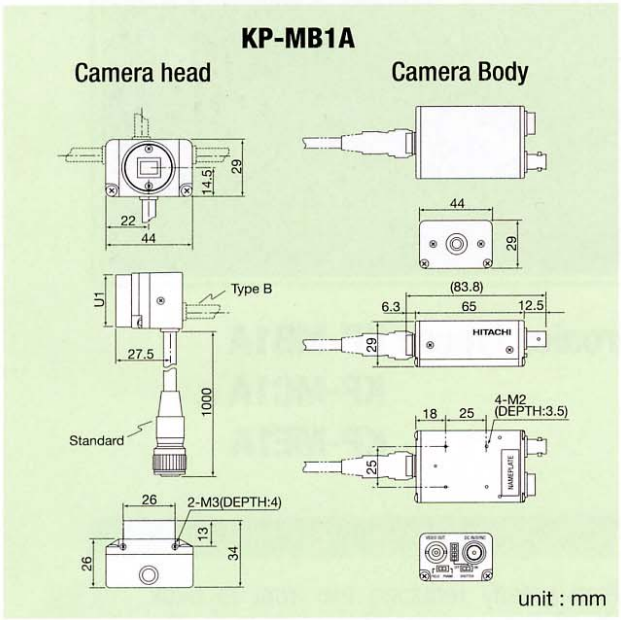
Major specifications

	KP-M1AN	KP-M1AP
Signal system	EIA system	CCIR system
Pickup device	Interline transfer CCD	Interline transfer CCD
Number of effective pixels:	768(H)×494(V)	752(H)×582(V)
Sensing area	8.91×6.67 mm (2/3-inch size)	
Pixel pitch	11.6(H)×13.5(V) μm	11.6(H)×11.2(V) μm
Lens mount	C mount	
Flange focal distance	17.526 mm	
Scanning frequency	15.734 kHz(H), 59.94 Hz(V)	15.625 kHz(H), 50 Hz(V)
Sync system	Internal sync/external sync (automatic switching)	
Scanning system	2:1 interlaced Non-interlaced (Only in external sync mode)	
Exeternal sync input	HD/VD:2 to 6 Vp-p Input impedance:1 k ohms Frequency deviation:±1 % Polarity:Negative	
Video output	VS:1.0 Vp-p/75 ohms (DC cut output)	
Sensitivity	Standard400 lx, F4(3200 K) Minimum0.3 lx, F1.4(AGC:ON, gamma:0.45 without IR cut filter)	
Horizontal/vertical resolution	570/485 TV lines	560/575 TV lines
S/N	56 dB	

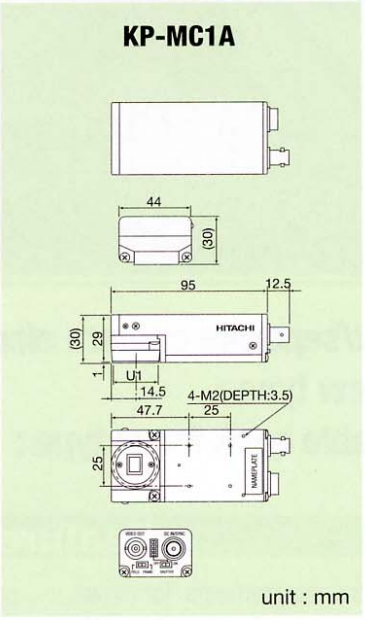
		KP-M1AN	KP-M1AP
Shutter speed		1/10000, 1/4000, 1/2000, 1/1000, 1/500, 1/250, 1/125, 1/120(CCIR), 1/100(EIA), OFF(normal exposure) Above settings are possible by external switch, Set to OFF at factory.	
AGC		Normal gain/AGC:(selectable by internal switch)	
Gamma		Gamma=1.0/0.45(Selectable by internal switch) (Set to 1.0 at factory)	
Integration mode		Field or frame integration : Selectable by external switch (set to frame integration mode at factory)	
Field on demand		ON/OFF selectable by internal switch (set to OFF at factory)	
Restart and reset operation		ON/OFF selectable by internal point (optional function) (set to OFF at factory) Input : 5 Vp-p/1 k ohms	
Ambient temperature and humidity	Full specifications	0 to 40 °C (32 to 104 °F), RH 50 to 70 %	
	Operating	-10 to 50 °C (14 to 122 °F), RH 90 % or less	
	Storage	-20 to 60 °C (-4 to 140 °F), RH 70 % or less	
Resistance to vibration		98 m/s²	
Resistance to shock		686 m/s²	
Supply voltage		12 V DC ±1V	
Current consumpition		220 mA approx. (KP-MB1A : 280 mA approx.)	
Composition		Camera (with IR cut fillter)·····1 Operation manual·····1	

Dimension

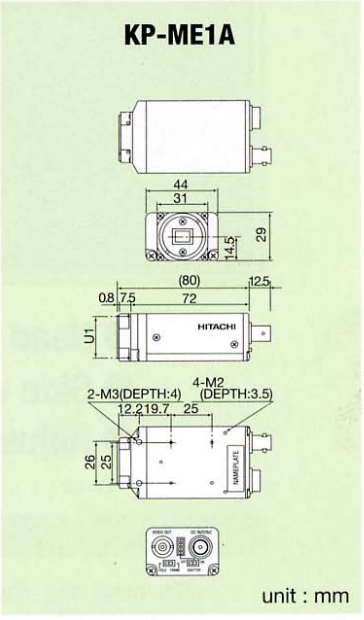
KP-MB1A



KP-MC1A



KP-ME1A



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Specification are subject to change without notice.

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