KV-CA02

Camera input unit

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model				KV-CA02*1
General specifications	Power voltage			System configuration using an expansion unit for KV-5000/3000 Series: 24 VDC (±10%)*2 System configuration using an expansion unit only for KV-8000/7000 Series: 24 VDC (-15%/+20%)*2
	Operating ambient temperature			System configuration using an expansion unit for KV-5000/3000 Series: 0 to +50°C 32 to 122°F (no freezing)*3*4 System configuration using an expansion unit only for KV-8000/7000 Series: 0 to +55°C 32 to 131°F (no freezing)*3*4
	Operating ambient humidity			System configuration using an expansion unit for KV-5000/3000 Series: 10 to 95% RH (no condensation)*3 System configuration using an expansion unit only for KV-8000/7000 Series: 5 to 95% RH (no condensation)*3
	Storage ambient temperature			System configuration using an expansion unit for KV-5000/3000 Series: -20 to +70°C -4 to +158°F*3 System configuration using an expansion unit only for KV-8000/7000 Series: -25 to +75°C -13 to +167°F*3
	Storage relative humidity			System configuration using an expansion unit for KV-5000/3000 Series: 10 to 95% RH (no condensation)*3 System configuration using an expansion unit only for KV-8000/7000 Series: 5 to 95% RH (no condensation)*3
	Operating environment			No dust or corrosive gas
	Operating altitude			2000 m 6561.7' or less
	Noise immunity			1500 Vp-p or more Pulse duration: 1 µs, 50 ns (based on noise simulator) IEC standard-compliant (IEC 61000-4-2/3/4/6)
	Withstand voltage			1500 VAC for one minute (between the power terminals and the I/O terminals, and between the external terminals and the case)
	Insulation resistance			50 MΩ or more (between the power terminals and the I/O terminals and between the external terminals and the case, with 500 VDC megohmmeter)
	Vibration resistance	Intermittent vibration	Frequency 5 to 9 Hz	Half amplitude 3.5 mm 0.14"*5
			Frequency 9 to 150 Hz	Acceleration 9.8 m/s² 32.2'/s²*5
		Continuous vibration	Frequency 5 to 9 Hz	Half amplitude 1.75 mm 0.07"*5
			Frequency 9 to 150 Hz	Acceleration 4.9 m/s² 16.1'/s²*5

	Shock resistance	Acceleration: 150 m/s² 492.1'/s², Application time: 11 ms, 2 times in each of the X, Y, and Z directions
	Pollution degree	2
Performance specifications	Connectable CPU unit	KV-8000A
	Max. number of connectable units	4
	Number of ports	2
	Supported camera models	KV-CA1H (Compact standard camera) KV-CA1W (Wide-field high-resolution camera)
	Cable length	5/10/20 m 16.4'/32.8'/65.6'*6
	Recording time	Approx. 3 minutes*7
	Internal current consumption	260 mA or less*8
	Weight	Approx. 190 g

*1 for use with KV-8000 Series
*2 Supplied via the CPU unit or expansion unit.
*3 Guaranteed range in which the system can be used.
*4 Specified according to the temperature in the control panel on the lower side of the unit.
*5 Compliant with JIS B 3502 IEC 61131-2, Scan times: 10 times in each of the X, Y, and Z directions (for 100 min.)
*6 Lengths of the KV-C5/C10/C20 camera cables.
*7 Record time for one KV-CA1H with the following configuration of settings (initial value). The actual recording time varies depending on the number of devices, the frame rate, and the image quality settings. Frame rate: 30 fps/Quality: 3
In addition, the recorded video is cleared when the power is turned off.
*8 Internal current consumption for the KV-CA02 only. Connecting a camera adds the internal current consumption of the connected camera.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.