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1	. General The KP-DE500 is ultra type CCD (EM-CCD) in		or camera t	hat installed the e	electron multi	plication	A
2	I						
1) Ultra high sensitivity It has materialized ult charge domain before	-		s doing multiply c	harge direct	ly in the	╞
	Image is not fuzzy lik condition.		•	g objects and wal	king person	at very dark	В
2) High color fidelity By RGB primary colo fidelity can be acquire		e picture of	high vertical reso	lution and hig	gh color	
3) New digital signal proc The clear picture of a processor (DSP) ado enhancer processing	high signal to nois			-	-	С
4	 Electronic shutter The electronic shutte Auto electronic shutte shutter speed respon 	er (AES) operates t	to 1/2000 se	econd. Even wit	h a fixed iris	lens, the	
5	 White balance a) Auto-tracking white b form 2,500K to 8,000 b) Preset white balance 	К)	tecting whit	te color in the sce	ne at a color	temperature	D
	c) Manual white balanc		rol)				
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	6) Color- Monochrome (B/ Clear color video in the automatic change func surveillance.	e daytime, very hig				nt by the	A
	 Picture quality menus A wide variety of mod using rear panel key b 		s can be se	lected from menu	is and adjuste	ed by	_
	8) Others a) Video signal polarity b) Text display c) Remote control (Via		ive/positive)			В
	c) Remote control (via	K3-2320)					
							С
							D
							E
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3. Specifications				
1) Imaging device	· 1/2-inch progress	sive scan frame interli	ne CCD	
r) maging device	(with on-chip mic			A
Total number of pixels	: 680(H) x 500(V)			
No. of effective pixels	: 658(H) x 489(V)			
Scanning area	: 6.58(H) x 4.89(V) mm		
Unit cell size)μm(Square pixel)		
Color filter		color mosaic filters on		
2) Scanning system	: 2:1 interlace sca		chip	
3) Frequency Horizontal	: 15.734 kHz			
Vertical	: 59.94 Hz			В
 Sync system Video signal output 	: Internal : Composite video	· 1 0 \/p p/75	unbalanced	
5) VIDEO SIGNAI OULPUL	•			
	Video		sitive or negative	
	C: un c	(negative p		
	Sync	: 0.3 Vp-p neg		
	Burst		re than 8 cycles	
	-	iency : 3.579545 M	HZ ± /5HZ	C
	Connector	: BNC type		
6) Video signal processing	: Digital processin			
7) S/N (Y signal)		(AGC, enhancer and	gamma off)	
8) Resolution (Y signal at cent				
Horizontal	: 480 TV lines			
Vertical	: 350 TV lines			
9) Minimum illumination		F1.4, AGC ON, SENS	UP OFF, 50IRE)	
	0.0005 lx			D
	(Monoch	rome, F1.4, AGC ON,	SENS UP OFF, 50IRE)	ľ
10) Sensitivity selection	: AGC OFF / ON (Factory setting is ON)	
	Manual Gain Adj	ustable at AGC OFF		
	Limit Gain Adjust	able at AGC ON		
 Electric shutter speed 	: Selectable in 7 s	teps & AES (Factory	setting is 1/60)	
	1/60, 1/100, 1/12	5, 1/250, 1/500, 1/100	00, 1/2000	
	AES : From 1/	60 second to 1/2000 s	econd	
12) Integration multiple [SENS	UP] setting			E
	: Automatic or Ma	anual (fixed) (Factory	setting is OFF)	-
	Automatic: 2	, 4, 6, 8, 10, 12, 16, 32	2, 64 times	
	Manual : 2, 4,	6, 8, 10, 12, 16, 32, 6	64, 88, 128 times	
Note: When the SENS UP set	cale factor increased	I, white spot and fixed	pattern noise increase	
and picture quality ma	ay fall off.			
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		Tokyo Japan		
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13) Light control mode (The		•	VERAGE / BLC	C], AGC and	SESN UP.)	
	. AVENAGE			Factory	setting is	А
AV	(ERAGE)		Υ.	. c.c.c.j		
	BLC : Sca	nning area	is selectable from	n 9 area.		
14) Auto-iris lens outputs	: DC / VIDE	O (Factory	setting is DC)			
	Iris control	voltage inp	out (galvanomete	r) type lens [l	DC]	-
		coil impeda				
		•	150 ± 10%, Dri	ve:190 ±	10%	
	-		e lens [VIDEO]			в
		-	1.0 Vp-p/high im	pedance		
15) White belonce			12 VDC 60 mA s (Factory setting	$\pi = \Lambda T M $		
15) White balance			preset[AWC] /	J IS A I VV)		
			rol[MANUAL]			
16) B/W mode	U U		s (Factory setting	a is OFF)		
,		olor mode		,		
	ON : M	lonochrome	e mode			
	AUTO : N	lode selecte	ed in response to	brightness.		C
	(Can be set	for high, medium	or low.		
17) DNR (Noise reduction)	: Selectable	in 3 mode	s (Factory setting	g is AUTO(H	I))	
	OFF / AUT	• • • • •				
18) Text display	•		racters in one lin			
19) Picture adjustment		-	an be selected a	nd adjusted f	rom	
20) Romoto control		en menu	an be selected a	ad adjusted f	rom DC	
20) Remote control		U	an be selected al ector: 12pin	na adjusted i	IOIII PC.	D
21) Power supply	: 12 VDC ±					
22) Power consumption			ng 60mA for auto	-iris lens)		
23) Lens mount	• •	•	-back adjustment			
24) Ambient temperature			-			
Op	erating : -1	0 to +50	, 30 to 80 %RH			
Sto	orage : -2	20 to +60	, 20 to 90 %RH			
· · · · · ·	erated continuous	-		n +40 (10	4F)	E
	ong term stable pe				,	
25) Vibration endurance			Iz, 30 minutes ea		axes)	
Note : Do n	ot subject to stror	ig vibration	for long periods of	of time.		
						\vdash
						-
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26) External dimensions 27) Mass	(not inclue	3(H) x 170(D) ding lens and prot 10g (without lens			A
28) Supplied equipment	: Camera Operating	instructions blug (R03-P3F)) 1 1 1		

В

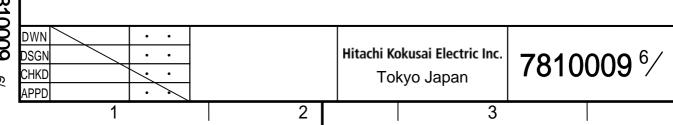
С

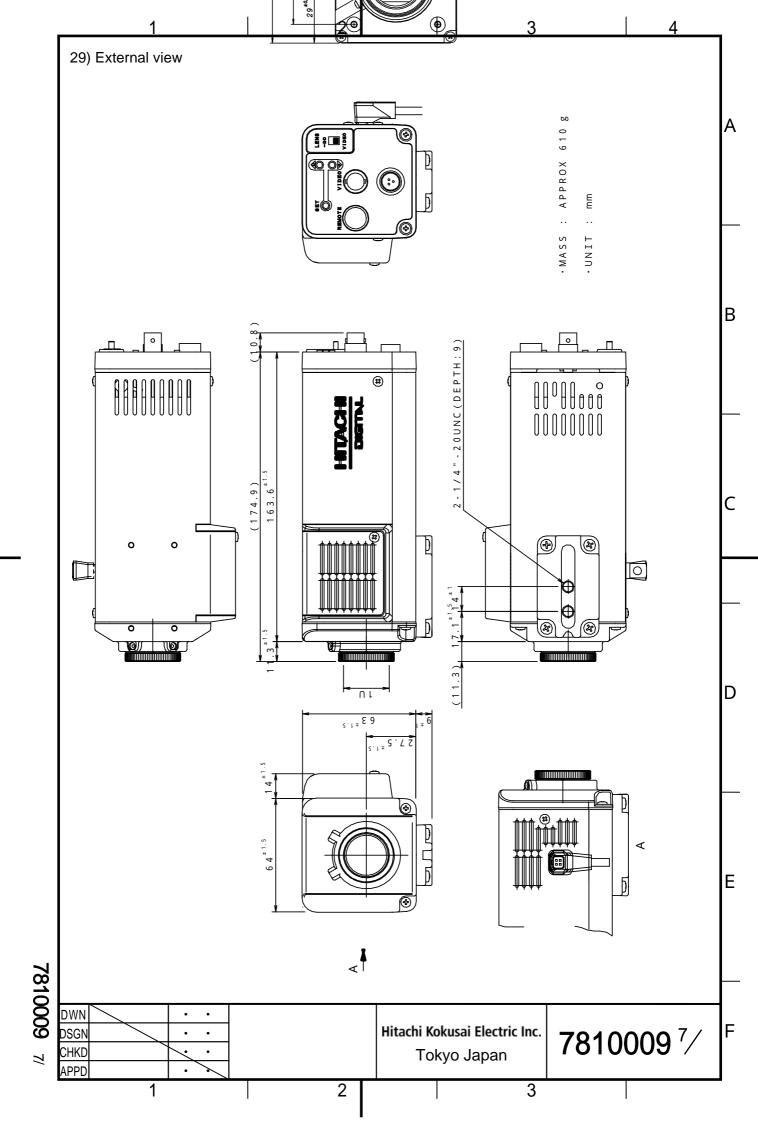
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Notice:

These specifications are subject to change without prior notice due to product improvement. Confirm the most recent specifications at time of order.

Hitachi Kokusai Electric certifies this product complies with the standard warranty conditions of Hitachi Kokusai Electric, and that quality control is implemented to the extent required to comply with these conditions.

Operating notice

The camera pays attention be sufficient that the followings handling notice of the camera handling will be maintained good picture quality.

1) The camera should not use in dusty place and/or where closes a fan, because it is cooling CCD with a peltier-element and fan.

2) When camera operating temperature goes up, the white spots of CCD and dark current increase and picture quality decrease noticeably.

In case of the camera is installed into camera housing, the inside temperature of the housing should be keep below 40 and maintained with cooling FAN to prevent rise in temperature.

3) In case of the camera with housing continuously operates the long time, recommend the FAN of the camera housing is exchanged regularly every 3 years. If the FAN does not work properly, a white spot and fixed pattern noise increase then picture quality comes down.

Warranty and service:

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- 1) The guarantee period is one year after the data purchase. However, the defects due to erroneous use or intentional act are excluded.
- 2) As the defect after expiration of the guarantee period, where product repair is possible, repair will be performed at charge.
- 3) The present Warranty pertains only to the camera unit. Secondary malfunctions attributable to camera failure as well as expenses incurred by disassembly and reassembly of the related system, are beyond the scope of this Warranty.
- 4) Compensation for loss of business, loss or damage to software, database and other contingent losses are beyond the scope of this Warranty.
- 5) Hitachi Kokusai Electric Inc. is not liable for the losses caused when the equipment is used in a system, use for business trades, production process, medical fields, crime prevention applications, etc.
- 6) The parts used in the equipment have their respective lives. The lives of such parts will be shortened under the environments of high temperature or high humidity. When the stable operation is required for a long time, it is recommended to perform periodical maintenance and inspection every year or every two years.

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