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1	. General The KP-DE500 is ultra type CCD (EM-CCD) in	high sensitivity colonage sensor.	or camera t	hat installed the e	electron multi	plication	A
2	2. Principal features						
1) Ultra high sensitivity It has materialized ult	tra high sensitivity	because it i	s doing multiply c	harge direct	ly in the	╞
	Image is not fuzzy lik condition.	e a picture picked	up a moving	g objects and wal	king person	at very dark	R
2) High color fidelity By RGB primary colo fidelity can be acquire	r mosaic filters, the ed.	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	essor (DSP) high signal to nois ption which has im	se ratio (S/N proved lum	N) is obtained by t inance signal pro	he new digit cessing, suc	al signal h as 5H	С
4	 Electronic shutter The electronic shutte Auto electronic shutte shutter speed respon 	r can be set in 7 st er (AES) operates t ds to the amount c	eps from sta to 1/2000 se of light to ke	andard 1/60 seco econd. Even wit ep the signal outp	nd to 1/2000 h a fixed iris put at optimu	esecond. lens, the m level.	
5	 White balance a) Auto-tracking white b form 2,500K to 8,000 b) Preset white balance 	palance [ATW] (de K) e [AWC]	tecting whit	te color in the sce	ne at a color	temperature	D
	c) Manual white balanc	e. (R, B gain conti	rol)				
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6) Color- Monochrom	ie (B/W MODE)		<i>,</i>		
Clear color video	in the daytime, very hig	gh sensitivity	of monochrome	video at night	by the
surveillance			or the day / high	Continuous	
7) Picture quality me	nus				
A wide variety of	modes and parameter	s can be sel	ected from menu	is and adjuste	d by
using rear panel	key buttons.				
8) Others					
a) Video signal pol	arity (Selectable negat	tive/positive))		
b) Text display					
c) Remote control	(Via RS-232C)				
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3 Specifications				
1) Imaging device	· 1/2-inch progres	ssive scan frame interlir		
r) maging device	(with on-chip m	icrolonsos)		
Total number of nivels				
	. 660(H) X 500(V)			
	: 658(H) X 489(V)	() ()		
Scanning area	: 6.58(H) x 4.89(\	/) mm		
	: 10.0(H) x 10.0(\	/) µm (Square pixel)		
Color filter	: R, G, B primary	color mosaic filters on	chip	
2) Scanning system	: 2:1 interlace sca	an(NTSC mode)		
3) Frequency Horizontal	: 15.734 kHz			
Vertical	: 59.94 Hz			
4) Sync system	: Internal			
5) Video signal output	: Composite vide	o : 1.0 Vp-p/75	unbalanced	
	Video	: 0.7 Vp-p pos	itive or negative	
		(negative pi	cture)	
	Sync	: 0.3 Vp-p neg	ative	
	Burst	: 0.3 Vp-p mo	re than 8 cycles	
	Subcarrier freq	uency : 3.579545 M	Hz ± 75Hz	
	Connector	: BNC type		
6) Video signal processing	: Digital processir	ng (input 10 bits)		
7) S/N (Y signal)	: More than 50dB	G (AGC, enhancer and	gamma off)	
8) Resolution (Y signal at cen	ter)		,	
Horizontal	, : 480 TV lines			
Vertical	: 350 TV lines			
9) Minimum illumination	: 0.009 lx (Color.	F1.4 AGC ON SENS	UP OFF. 50IRE)	
	0.0005 lx			
	(Monoc	brome E1 4 AGC ON	SENS LIP OFE 50IR	E)
10) Sensitivity selection		(Eactory setting is ON		L)
TO Defisitivity selection	. ACC OT 7 ON Manual Gain Ad	(ractory setting is ON)	
11) Electric chutter encod			a t/co	
(1) Electric shutter speed				
	1/60, 1/100, 1/12	25, 1/250, 1/500, 1/100	0, 1/2000	
	AES : From 1	/60 second to 1/2000 s	econd	
12) Integration multiple [SENS	UPJ setting			
	: Automatic or M	anual (fixed) (Factory	setting is OFF)	
	Automatic : 2	2, 4, 6, 8, 10, 12, 16, 32	2, 64 times	
	Manual : 2, 4	1, 6, 8, 10, 12, 16, 32, 6	4, 88, 128 times	
Note: When the SENS UP s	cale factor increase	d, white spot and fixed	pattern noise increase	е
and picture quality ma	ay fall off.			
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13) Light control mode (The a	auto level contro	ol system of	AES, lens iris[D	C], AGC and	SESN UP.)
	: AVERAGE	E / PEAK&A	VERAGE / BLC		
			(Factory	setting is
AVEI	RAGE)				
	BLC : Sca	nning area i	s selectable from	n 9 area.	
14) Auto-iris lens outputs	: DC / VIDE	O (Factory	setting is DC)		
	Iris control	voltage inp	ut (galvanometer	r) type lens [[DC]
	Coupling	coil impeda	nce		
	I	Damper : 1,	150 ± 10%, Dri	ve:190 ±	10%
	Video sigr	nal input typ	e lens [VIDEO]		
	Lumina	nce signal :	1.0 Vp-p/high im	pedance	
	Power s	supply :	12 VDC 60 mA		
15) White balance	: Selectable	in 3 modes	(Factory setting	g is ATW)	
	Auto-track	ing[ATW] / J	oreset[AWC] /		
	R/B gain n	nanual cont	ol[MANUAL]		
16) B/W mode	: Selectable	in 3 modes	(Factory setting	g is OFF)	
	OFF : C	olor mode			
	ON : M	lonochrome	mode		
	AUTO : M	lode selecte	d in response to	brightness.	
	(Can be set f	or high, medium	or low.	
17) DNR (Noise reduction)	: Selectable	in 3 modes	(Factory setting	g is AUTO(HI))
	OFF / AUT	TO / ON			
18) Text display	: 24 alpha-r	numeric cha	racters in one lin	e	
19) Picture adjustment	: Modes and	d settings ca	an be selected ar	nd adjusted fi	om
	on-scree	en menu			
20) Remote control	: Modes and	d settings ca	an be selected ar	nd adjusted fi	om PC.
	RS-232C	evel, Conne	ector: 12pin		
21) Power supply	: 12 VDC ±	± 10 %			
22) Power consumption	: Approx. 1.	5A (Omittir	g 60mA for auto	-iris lens)	
23) Lens mount	: C/CS mou	nt (Flange-	back adjustment)	
24) Ambient temperature					
Oper	rating : -1	0 to +50	, 30 to 80 %RH		
Stora	age :-2	20 to +60	, 20 to 90 %RH		
Note : If opera	ated continuous	ly, be sure t	o use at less tha	n +40 (104	4F)
for long	g term stable pe	erformance.			
25) Vibration endurance	: 24.5 m/s ²	(10 to 200⊦	lz, 30 minutes ea	ach on XYZ a	xes)
Note : Do not	subject to stror	g vibration	for long periods o	of time.	
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26) External dimensions	· 78(W) x 63(H) x 170(F))	
	(not including lens and	d protrusions)	
27) Mass	: Approx. 610g (withou	t lens)	A
28) Supplied equipment	: Camera	1	
	Operating instructions	1	
	DC input plug (R03-P	3F) 1	

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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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