




Hitachi High Sensitivity Color Camera - Difference of specification

Model	KP-DE500 (EM-CCD)	KP-D531U	KP-D591U
			
Imaging device	1/2-inch progressive scan frame interline CCD R,G,B primary color mosaic filters on chip	1/2-inch Interline transfer type CCD Ye,Cy,Mg,G complementary color mosaic filters on chip	1/2-inch Interline transfer type CCD Ye,Cy,Mg,G complementary color mosaic filters on chip
Total number of pixels	680(H)×500(V)	811(H)×508(V)	811(H)×508(V)
No. of effective pixels	658(H)×496(V)	768(H)×494(V)	768(H)×494(V)
Scanning system	2:1Interace scan	2:1Interace scan	2:1Interace scan
Sync system	Internal	Internal	Internal
Video signal output	VBS	VBS	VBS
Signal to noise ratio	More than 50 dB	More than 50 dB	More than 50 dB
Resolution H	480TV line	480TV line	480TV line
V	350TV line	350TV line	350TV line
Minimum illumination	0.0009 lx (Color, F1.2, AGC ON, SENS UP OFF, 50IRE) Full motion in Color	0.14 lx (Color, F1.2, AGC ON, SENS UP OFF, 50IRE) Full motion in Color	0.3 lx (Color, F1.2, AGC ON, SENS UP OFF, 50IRE) Full motion in Color
	0.00015 lx (Color, F1.2, AGC ON, SENS UP x64, 50IRE)	0.0045 lx (Color, F1.2, AGC ON, SENS UP x32, 50IRE)	0.005 lx (Color, F1.2, AGC ON, SENS UP x64, 50IRE)
	0.00005 lx (Monochrome, F1.2, AGC ON, SENS UP OFF, 50IRE) Full motion in B&W mode	0.0144 lx(Monochrome, F1.2, AGC ON, SENS UP OFF, 50IRE) Full motion in B&W mode	-
	0.000008 lx(Monochrome, F1.2, AGC ON, SENS UP x64, 50IRE)	0.00045 lx(Monochrome, F1.2, AGC ON, SENS UP x32, 50IRE)	-
AGC	AGC OFF/ON (Manual & Limit gain adjustable)	OFF/ON(selectable Max. [6, 12, 21 and 31 dB])	OFF/ON(selectable Max. [6, 12, 21 and 31 dB])
Shutter	1/60·1/100·1/125·1/250·1/500·1/1000·1/2000 & AES	1/60·1/100·1/250·1/500·1/1000·1/2000·1/4000·1/10000·1/20000·1/30000 & AES	1/60·1/100·1/250·1/500·1/1000·1/2000·1/4000·1/10000·1/20000·1/30000 & AES
AES	From 1/60 second to 1/2000 second	From 1/60 second to 1/180000 second	From 1/60 second to 1/180000 second
Integration multiple (SENS UP)	OFF/AUTO/MANUAL	OFF/AUTO/MANUAL	OFF/AUTO/MANUAL
	AUTO : 2·4·6·8·10·12·16·32·64 times MANUAL : 2·4·6·8·10·12·16·32·64·88·128 times	AUTO : 2·4·6·8·10·12·16·32 times MANUAL : 2·4·6·8·10·12·16·32·64 times	AUTO : 2·4·6·8·10·12·16·32·64 times MANUAL : 2·4·6·8·10·12·16·32·64·88·128·256·320·420·510 times
Light control	Average	Average	Average
	Back light control (BLC) Peak & Average	Back light control (BLC) -	Back light control (BLC) -
White balance	ATW/AWC/MANUAL	ATW/AWC/MANUAL	ATW/AWC/MANUAL
Auto iris	DC(Galvanometer) / VIDEO	DC(Galvanometer) / VIDEO	DC(Galvanometer) / VIDEO
B/W mode	OFF : Color mode ON : Monochrome mode	OFF : Color mode ON : Monochrome mode	- -
	AUTO : Mode selected in response to brightness.	AUTO : Mode selected in response to brightness.	-
DNR (Noise reduction)	Selectable in 3 modes (OFF / AUTO / ON)	OFF / ON	OFF / ON
Camera title	22 alpha-numeric characters in one line	24 alpha-numeric characters in one line	24 alpha-numeric characters in one line
Digital Zoom	-	x4	x4
Remote	RS-232C level	RS-232C level	RS-232C level
Lens mount	C/CS mount (Flange-back adjustment)	C/CS mount (Flange-back adjustment)	C/CS mount (Flange-back adjustment)
Power supply / consumption	DC12V±10%, Approx. 1.5A (18W) Recommend power 2.5A more	AC117V, 6.7W	AC117V, 6.6W
Operating temperature	-10 ~ +50°C	-10 ~ +50°C	-10 ~ +50°C
External dimensions	78(W)×63(H)×170(D) mm	64(W)×63(H)×123(D) mm	64(W)×63(H)×122(D) mm
Mass	610g	740g	740g