

HITACHI CONFIDENTIAL PROPRIETARY		Chassis Zoom Camera Specifications (PAL)				HITACHI	
						2001/02/05	
						" * ": Default mode	
						H I T A C H I	
						Pilot Sample	Final
		Current	Current	Current	Current	2/01	4/01
		VK-S234E	VK-S254E	VK-S454E	VK-S454E		
		[PAL]	[PAL]	[PAL]	[PAL]		
1	Specifications						
2	CCD Image Sensor	Image Size	4.5mm Dia. (1/4-inch)	4.5mm Dia. (1/4-inch)	<=>	4.5mm Dia. (1/4-inch)	
3		Total Pixels	470k (795 x 596)	680k (998 x 677)	=>	450k (758 x 592)	
4		Effective Pixels	440k (752 x 582)	630k (962 x 654)	=>	420k (724 x 582)	
5		Practical Pixels	440k (752 x 582)	490k (847 x 582)	=>	420k (724 x 582)	
6		Progressive Scan	-	-	=>	YES	
7	Lens: Optical	Zoom mag.	22X (f=4.0~88mm)	23X (f=3.6~82.8mm)	<=>	23X (f=3.6~82.8mm)	
8		Practical f-value	4.0 ~ 88mm	4.0 ~ 92mm	=>	3.6 ~ 82.8mm	
9		Practical H.angle: [°]	47.3 (w) ~ 2.2 (t)	47.9 (w) ~ 2.2 (t)	=>	54 (w) ~ 2.5 (t)	
10		F-value	F1.6 (w) * ~ F3.8 (t)	F1.6 (w) * ~ F3.7 (t)	<=>	F1.6 (w) * ~ F3.7 (t)	
11		Zoom Speed (Manual)	3.9s * / 6.3s (soft)	4.2s * / 5.8s (soft)	<=>	4.2s * / 5.8s (soft)	
12		(In Preset : Trace / No-)	2.4s / 1.6s (soft)	2.9s / 1.6s (soft)	<=>	2.9s / 1.6s (soft)	
13	Focus	Auto	VAF	VAF	<=>	VAF	
14		Manual (Far~Near)	Possible (soft)	Possible (soft)	<=>	Possible (soft)	
15		Focal Range	infinity~1m(t)~0.01m(w) * (soft)	infinity~1m(t)~0.01m(w) * (soft)	<=>	infinity~1m(t)~0.01m(w) * (soft)	
16	IR Removable	Auto	-	Pro.AER+ * (OFF~ON~1/3*~1/4k)	<=>	Pro.AER+ * (OFF~ON~1/3*~1/4k)	
17		Manual (ON/OFF)	-	Possible (soft)	<=>	Possible (soft)	
18	Durability	Zoom / Focus / Iris	500k cycles	500k cycles	<=>	500k cycles	
19		IR Removable	-	50k cycles	<=>	50k cycles	
20	DSP	DSP-5	DSP-5	DSP-5	=>	DSP-6	
21	-Functions-	Digital Slow Shutter	YES (DRAM I/F)	YES (DRAM I/F)	=>	YES (SDRAM I/F) w/o WDR	
22		Progressive Scan	-	-	=>	YES	
23		Wide Dynamic Range	-	-	=>	OFF * / ON [Auto * (offset) / Manual] (soft)	
24		Image Reverse	-	-	=>	OFF * / ON (soft) w/o WDR	
25		Scene Memory [Freeze]	-	-	=>	OFF * / ON *** (soft)	
26		Privacy Masking	-	-	=>	OFF / ON * [2 position / movement cont.] (soft)	
27	Digital Zoom	Zoom mag.	OFF * / ON [2 X * (soft : max.8X)]	OFF * / ON [2 X * (soft : max.8X)]	=>	OFF * / ON [2 X * (soft : max.10X)]	
28	Electrical Shutter	Auto	Pro.AE (1/50~1/4ks)	Pro.AE (1/50~1/4ks)	<=>	Pro.AE (1/50~1/4ks)	
29		Auto(+DSShutter)	Pro.AE+ * (1/1.5~1/3*~1/4ks : Seamless)	Pro.AE+ (1/1.5~1/3*~1/4ks : Seamless)	<=>	Pro.AE+ (1/1.5~1/3*~1/4ks : Seamless)	
30		Shutter priority	1/1.5~1/30ks : soft	Shutter priority		Shutter priority w/o WDR	1/1.5~1/30ks : soft
31		Manual			=>	Exposure	
32			F1.6~F34 :	F1.6~F34 : soft		priority w/o WDR	F1.6~F34 : soft
33		manual (Sensitivity)	32x,16x,8x,4x,2x (soft)	32x,16x,8x,4x,2x (soft)	<=>	32x,16x,8x,4x,2x (soft)	
34	Iris	Auto * / (offset : soft)	Auto * / (offset : soft)	Auto * / (offset : soft)	<=>	Auto * / (offset : soft)	
35	White balance	Auto * / (manu : soft)	Auto * / (manu : soft)	Auto * / (manu : soft)	<=>	Auto * / (manu : soft)	
36	Resolution	Normal (1/60s,1/50s)	460 / (550) TVL	530 / (450) TVL	=>	470 / (550) TVL	
37	Horizontal / (Vertical)	DSS (1/4s,1/3s)	460 / (280) TVL	530 / (280) TVL	=>	470 / (550) TVL	
38	Luminance S/N ratio	50 dB	50 dB	50 dB	<=>	50 dB	
39	Min. Sensitivity	IR-cut ON (1/60s,1/50s)	3 lx (Color)	3 lx (Color)	<=>	3 lx (Color)	
40	Typical	IR-cut ON (1/4s,1/3s)	0.2 lx (Color)	0.2 lx (Color)	<=>	0.2 lx (Color)	
41		(1/2s,1/1.5s)	0.1 lx (Color)	0.1 lx (Color)	<=>	0.1 lx (Color)	
42		IR-cut OFF (1/4s,1/3s)	-	0.02 * lx (Weak Color *)	=>	0.02 * lx (B/W *)	
43		w/ IR illuminator [option]	-	[0 lx (Weak Color *)]	=>	[0 lx (B/W *)]	
44	In 3m	Condition	(F1.6(w), 300mV)	(F1.6(w), 300mV)	<=>	(F1.6(w), 300mV)	
45	Sync System	Internal / Line-Lock (50Hz)	Internal / Line-Lock (50Hz)	Internal / Line-Lock (50Hz)	<=>	Internal / Line-Lock (50Hz)	
46	Power	Supplied voltage	9V DC	9V DC	<=>	9V DC	
47		Supplied current	280mA	280mA	=>	340mA w/ WDR	
48		max.	380mA	470mA	=>	540mA w/ WDR	
49		Consumption max.	3.3W	2.5W (4.3W)	=>	3.1W (4.6W) w/ WDR	
50	Dimension	W x H x D	50 x 60 x 89.5mm (w/ M-case)	50 x 60 x 89.5mm (w/ M-case)	<=>	50 x 60 x 89.5mm (w/ M-case)	
51	Weight	Approx.	225g (w/ M-case)	230g (w/ M-case)	<=>	230g (w/ M-case)	
52	No. of Connector	1 (9pin)	1 (9pin)	1 (9pin)	<=>	1 (9pin)	
53	Operating Temp. (Recommend): [°C]	0 ~ 60 (~ 40)	0 ~ 60 (~ 40)	0 ~ 60 (~ 40)	<=>	0 ~ 60 (~ 40)	
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