

MAJOR FEATURE

C-mount

The camera uses a C mount lens, which is the de facto standard in the industry.

One chip LSI

Hitachi's leading edge processing technology (0.18 µm, internal core 1.8V drive, and 3 million gates) is contained on a single newly developed ultra LSI chip. The system is compact and consumes very little power.

High picture quality

High resolution and sensitivity are achieved through the use of advanced CCD technology and three 1/2 inch 470,000-pixel CCD's. Together with the 12-bit A/D converter and 14-bit internal processor, a horizontal resolution of 800 TV lines and 62dB signal to noise (S/N) are obtained with the use of the new digital noise reduction system (DNR). Clear low noise images area obtained even in high gain mode.

6 color independent masking

The user can adjust hue and saturation of the three primary color (R, G, B) and complementary color (Mg, Ye, Cy) independently.

Auto Shading Compensation (ASC)

The ASC function can automatically compensate for color shading errors caused by interaction between the lens and prism assembly in C-Mount optical systems. Three modes of shading are provided and can be selected according to the cameras application, a color shading mode, a two-dimensional luminance-shading mode, or a flat shading mode.

Intelligent ALC (Auto Level Control)

Unattended operation under a wide range of illumination levels is possible with the selection of the auto mode from the main menu. The built-in microprocessor controls the gain (AGC) function, the auto electronic shutter (AES), and auto iris function so the proper video level is maintained over a wide range of light levels.

■ RS-232C Interface

Control of camera functions and storage of setup data can be performed with the use of a personal computer through the use of the RS-232C interface.



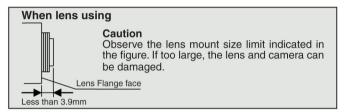
Specifications

Color system	PAL				
Optical system	1/2" f1.6 prism				
Imaging system	RGB system, 3CCDs				
Imaging device	1/2" CCD				
Total number of pixels	795(H)×596(V)				
Effective number of pixels	752(H)×582(V)				
Sensing area	6.35(H)×4.78(V)				
Scanning system	2:1 interlace				
Sync system	Internal/external (VBS, BBS or HD/VD)				
Horizontal resolution	800 TV lines, luminance signal center				
	(Y out and DTL off)				
S/N	62dB type (DNR on), 59dB type (DNR off)				
	(Y OUT, y=1, DTL off, Gain 0 dB)				
Standard sensitivity	2000 lx, F11				
Minimum illumination	0.4 lx (50IRE, F1.6, GAIN+24dB, DIGITAL GAIN +12dB)				
Vertical contour correction	2H				
Lens mount	C mount (flangeback: 17.526mm in air)				
Sensitivity selection	AGC (0 to + 24dB) or GAIN (0 to +24dB step 1dB or				
	step 3dB on remote control menu)				
CCD drive function					
Preset	1/60, 1/250, 1/500. 1/1,000, 1/2,000, 1/4,000				
	1/10,000, 1/20,000, 1/40,000, 1/100,000 second				
Lockscan	1/50.31 to 1/2024 second (step 1H),				
	to 1/100,000 second (step approx. 10% video level)				
AES	Off to 1/100,000 second				
Long integration	1/25 to approx. 8 seconds (1 frame steps)				
	(External image memory needed for continuous image)				
Power supply voltage	12 V DC rated (Stable operation at 10.5 to 15V DC)				
Power consumption	Approx. 5.0 W				
Dimensions	65(W)×65(H)×130(D)				
Mass	Approx. 450g (not including lens)				
Operating ambient temperature	-10 to 45 ℃				
Storage ambient temperature	-20 to 60 ℃				

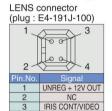
Input and output signals

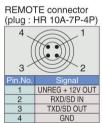
	9636						
ļ.	nput signal conditions						
Genlock input (MULTI connector)	VBS 1.0 Vp-p±3 dB or black burst/75 Ω (sync 0.3±0.1 Vp-p, burst 0.3±0.1 Vp-p) HD/VD 2 to 5 Vp-p, negative Low 0 VDC, High 2 to 5 VDC 1.5 Vp-p±3dB/High (when connected to RC-Z3, JU-C20, JU-Z2) RS-232C level (when connected to personal computer)						
External trigger input (MULTI connector)							
Serial data input (REMOTE connector) *1							
Output signal ratings							
Component video output (BNC, MULTI connector)	VBS 1.0 Vp-p/75Ω						
Y/C output (MULTI connector)	Y : 1.0 Vp-p/75Ω C : 0.3 Vp-p (burst)/75Ω						
Component output (MULTI connector)	Y : 1.0 Vp-p/75Ω R-Y : 0.7 Vp-p/75Ω B-Y : 0.7 Vp-p/75Ω						
RGB output (MULTI connector)	R : 0.7 Vp-p/75Ω G : 0.7 Vp-p/75Ω B : 0.7 Vp-p/75Ω						
Sync outputs (MULTI connector)	HD/VD: 2 Vp-p/75Ω Sync: $2 Vp-p/75Ω$						
Serial data output (REMOTE, MULTI connector) *1	1.5 Vp-p/Low (when connected to RC-Z3, JU-C20, JU-Z2) RS-232C level (when connected to personal computer)						
Lens iris control output (Lens connector, manual override)	1.5V (closed) to 5.5V (open) or 2.5V (closed) to 7.5V (open) Selectable						

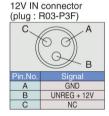
^{*1} Set internal switches according to connected equipment.



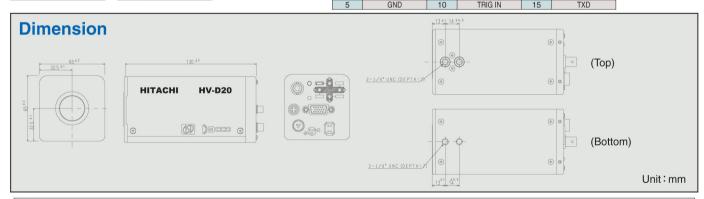
Pin arrangement







Hi-Density 15-pin connector (Plug: KEC-15P (Housing)) (Plug: JK-SP2140 (Pin contact)) (Plug: JK-C151C (Cover, inch)) (Plug: JK-C152C (Cover, miri)) (Screw: No.4-40UNC (inch)) (Screw: M2.6x0.45 (miri))					5 4 3 2 1 0 9 8 7 16 15 14 13 12 11		
î	Pin.No.	Signal	Pin.No.		Signal	Pin.No.	Signal
	1	R/R-Y/C OUT	6	VIDEO GND		11	GND
	2	G/Y/Y OUT	7	VIDEO GND		12	RXD
	3	B/B-Y/VBS2	8	VIDEO GND		13	HD IN/HD OUT/SYNC OUT
	4	WE OUT	9	UNREG + 12V IN		14	VD IN/VD OUT/GL IN
	E	CNID	10	TDIO IN		15	TVD



ACAUTION: To ensure safe operation, please read the instruction manual before using this product.

These Specifications are subject to change without notice.

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ISO 9001/BS 5750Pt1 EN 29001/JIS Z9901