

### **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  $\mu$ m, 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.



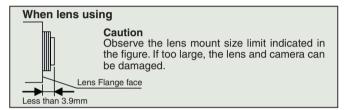
## **Specifications**

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	nperature -10 to 45 ℃				
Storage ambient temperature	-20 to 60 ℃				

## Input and output signals

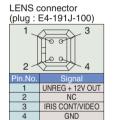
Input signal conditions								
Genlock input (MULTI connector)	VBS 1.0 Vp-p±3 dB or black burst/75 Ω (sync 0.3±0.1Vp-p, burst 0.3±0.1Vp-p) HD/VD 2 to 5 Vp-p, negative							
External trigger input (MULTI connector)	Low 0 VDC, High 2 to 5 VDC							
Serial data input (REMOTE connector) *1	1.5 Vp-p±3dB/High (when connected to RC-Z3, JU-C20, JU-Z2) RS-232C level (when connected to personal computer)							
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							

<sup>\*1</sup> Set internal switches according to connected equipment.

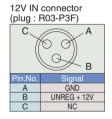


These Specifications are subject to change without notice.

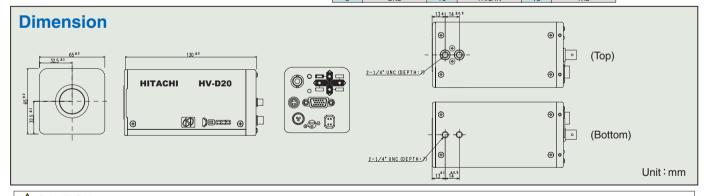
## Pin arrangement







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		
	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
	5	GND	10		TRIG IN	15	TXD



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

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