

Ratings

Scanning System

● HDK-790E/79E	1125 (59.94Hz or 60Hz, selectable)
● CCU-790A	1080 lines 59.94 or 60Hz 2:1 interlaced 480i lines 59.94 Hz 2:1 interlaced 1080 lines 59.94 Hz 2:1 interlaced 2-3 pull-down (option) 1080 lines 59.94 Hz 2:1 interlaced variable frame (option) 1080 lines 29.97 Hz 1:1 non-interlaced (option) 1080 lines 29.97 Hz SF non-interlaced (option) 1080 lines 23.98 Hz 1:1 non-interlaced (option) 1080 lines 23.98 Hz SF non-interlaced (option) 720 lines 59.94 Hz 1:1 non-interlaced (option) 720 lines 59.94Hz 1:1 non-interlaced variable frame (option)

CCD image sensor

2/3-inch 2,200,000-pixel FIT CCD

Optical system

2/3-inch 3CCD, f1.4 BaF52

Lens mount

BTA S-1005B (standard) or 2/3-inch Ikegami mount (factory option)

Viewfinder

● HDK-790E	7-inch B/W viewfinder (standard) or 7-inch color viewfinder (option) or 6-inch color LCD viewfinder (option)
● HDK-79E	2-inch B/W viewfinder (standard) or 5-inch B/W viewfinder (option) or 6-inch color LCD viewfinder (option)

Input signals

● HDK-790E/79E

External SYNC signal	SYNC 0.6Vp-p ±6dB
Audio signal*	-60, -50, -40, -30, -20, -10, 0, +4dB 600Ω(2ch, balanced) (after selecting, variable ±5dB available) (*option for HDK-790E)

Intercom signal: 2ch (ENG/PROD) (110 type or XLR type)

● CCU-790A

[HDTV system (SMPT274M and SMPT292M)]

Phase reference signal	PS/S 0.6Vp-p ±6dB 75Ω	bridged,1ch
Return video signal	PS 1.0Vp-p 75Ω	2ch (standard) 4ch (factory option)

(Input signal is SDI signal)

[NTSC system]

Return video signal	VBS 1.0Vp-p 75Ω	2ch (standard) 4ch (factory option)
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(Input signal is SDI signal)

External genlock signal	VBS/PS/S 1.0Vp-p 75Ω	bridged,1ch
Q-TV signal	VBS or PS 1.0Vp-p 75Ω	Single End,2ch

Intercom/Tally

Intercom (ENG/PROD)	(4-wire or Clearcom or RTS)
4-wire	0dBm 600Ω 2ch
Clearcom	-15dBs 200Ω 2ch
RTS	0dBm 200Ω 2ch
Tally	contact/voltage R, G 2ch
Program sound	0dBs 600Ω 2ch

Output signals

● HDK-790E/79E

Video signals

Analog signal	R, G, B or Y, P _b , P _r each 1ch, 75Ω(multi-pin connector)
HD SDI signal	Y, P _b , P _r 4:2:2 serial digital 2ch (BNC connector, Camera cable connector) (SMPT292M)
Q-TV1,2 signal*	Analog signal, 1ch 75Ω(BNC connector) (*HDK-79E: Q-TV1 or 2 selectable)

Return out: HD analog signal 75Ω(BNC connector)

VTR signal (option)	BTA S-1005B
Monitor signal	R, G, B or Y, P _b , P _r select 1ch, 75Ω(BNC connector)
Intercom signal	0dBs 2ch (ENG/PROD) (110 type or XLR type)

● CCU-790A

[HDTV system]

Analog video signal (SMPT274M)

Y, P _b , P _r	75Ω each 1ch
(R, G, B signal output is selectable by internal switch)	
HD SDI signal (SMPT294M)	75Ω 3ch

WFM signal	R, G, B, Y select 1.0Vp-p 75Ω or HD-SDI 75Ω	2ch (factory option)
PM signal	R, G, B, Y select 1.0Vp-p 75Ω	2ch
	HD-SDI 75Ω	2ch (factory option)

[NTSC system]

Composite video signal	VBS 1.0Vp-p 75Ω	3ch
Component video signal	R, G, B 0.7Vp-p 75Ω	each 1ch
	(Y, P _b , P _r signal output is selectable by internal switch)	

Component serial signal (D1)	(SMPT259M) 270Mbit/s 0.8Vp-p 75Ω	4ch
WFM signal	R, G, B, Y, ENC select 1.0Vp-p 75Ω or SDI 75Ω	2ch
PM signal	R, G, B, Y, ENC select 1.0Vp-p 75Ω or SDI 75Ω	2ch
Phase reference signal	sync 0.6Vp-p 75Ω	1ch

(HD or SD automatically selectable)

[Progressive system (option)]

1080p SDI signal (SMPT274M option)	1920 X 1080 75Ω 3ch
	(29.97Hz 1:1, 29.97Hz SF, 23.98Hz 1:1, 23.98Hz SF)
720p SDI signal (SMPT296M option)	1280 X 720 75Ω 3ch (59.94Hz 1:1)
480p serial signal (SMPT294M, factory option)	

Audio Signal

Mic	0dBm 600Ω 2ch
Digital audio	AES 3ID 1Vp-p 75Ω 1ch (In conformity with AES/EBU)

Intercom/Tally

Intercom (ENG/PROD)	(4-wire or Clearcom or RTS)
4-wire	0dBm 600Ω 2ch
Clearcom	-15dBs 200Ω 2ch
RTS	0dBm 200Ω 2ch

Filter

	1	2	3	4	5
ND	CAP	100%	25%	6.2%	1.6%
CC	CROSS	3200K	4300K	6300K	8000K

Electric color temperature

5600K

Ambient temperature

HDK-790E/79E : -20°C~+45°C (-4°F~+112°F)

CCU-790 : -0°C~+45°C (+32°F~+112°F)

Relative humidity

30%~90% (Non-condensing)

Operating voltage

● HDK-790E: AC100/110/117/220/240 ±10%

● HDK-79E: 11~16V

Weight

● HDK-790E	24kg (53 lbs) (without lens) 7-inch B/W viewfinder : approx. 4.5kg (10 lbs) 7-inch color viewfinder (option) : approx. 5kg (11 lbs) 6.0kg (13.2 lbs) (including fiber adaptor, without lens) 2-inch B/W viewfinder : approx. 0.8kg (1.8 lbs)
● CCU-790A	approx. 30kg (66 lbs)

Dimensions

● HDK-790E	W310 X H410.5 X D380mm (W12 X H16 X D15 inches)
● HDK-79E	W105 X H222 X D375mm (W4.1 X H8.7 X D14.8 inches)
● CCU-790A	W438 X H132 X D430mm (W17.2 X H5.2 X D16.9 inches)

Performance

■ Sensitivity: F10/2,000 lx

■ S/N

● HDTV system	56dB
● NTSC system	64dB

■ Modulation depth

● HDTV system	45% or more (800 TV lines, 27.5MHz)
● NTSC system	90% or more (400 TV lines, 5MHz)

■ Limiting resolution

● HDTV system	1,000 TV lines
● NTSC system	900 TV lines

■ Video frequency response (Base Station output)

● Y output	Below 60Hz..... Falling 60Hz~30MHz..... within ±1.0dB Over 30MHz..... Falling
● P _b , P _r output signal	Below 60Hz..... Falling 60Hz~15MHz..... within ±1.0dB Over 15MHz..... Falling
● NTSC output signal (Ych 100kHz, output signal from external camera control equipment)	Below 60Hz..... Falling 60Hz~4.5MHz..... within ±0.5dB 4.5MHz~8.0MHz... within ±1.0dB Over 8MHz..... Falling

■ Audio Frequency response (Base Station output)

● Y output	Below 100Hz..... Falling 100Hz~10kHz..... within ±1.0dB Over 10kHz..... Falling
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■ Contour correction

Vertical	5line
Horizontal	Boost frequency, 13MHz~24MHz (HDTV) Boost frequency, 2.7MHz~8.9MHz (SDTV)

■ Gamma

OFF, 0.35, 0.4, 0.45

■ Gain

-3dB, 0dB, +3dB, +6dB, +12dB or +18dB (User spec.)

■ Power consumption

● HDK-790E	approx. 500VA (including 7-inch color viewfinder and CCU)
● HDK-79E	Head + FA-79 : 36W (on site VTR location) Head + CA-79D : 34W 2-inch VF : 6W

Design and specifications are subject to change without notice.

1102B033-HI-1 Printed in Japan

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