

Ikegami

DIGITAL PROCESS COMPACT 3CCD COLOR CAMERA

THD-311



The THD-311 is employing the next generation digital process IC (ASIC) which adopted the state-of-art graphic processing technology in addition to the high-performance 1/3-inch IT CCD. It is the standard model which realizes high quality (horizontal resolution 850 TV lines, S/N62dB) and high sensitivity (2000 lx / F11).

High-performance CCD and the next generation digital process IC (ASIC)

The next generation digital process IC (ASIC) is employing in addition to the high-performance 410,000 pixels of 1/3-inch IT CCD.

The clear and true video image which is required for medical purpose camera is reproduced.

High Quality, High Sensitivity

It realizes Horizontal Resolution 850 TV lines, S/N62dB and sensitivity 2000 lux at F11. And it is high quality and high sensitivity which is the best suitable for medical field use, like the operating microscope system and the astral lamp system.

Electronic Shutter (Shutter Iris) function

It equips the Shutter Iris function which can maintain the most appropriate brightness of video image in accordance with changing light intensity of the subject.

Manual adjustment of brightness is available by the volume on the front panel.

Auto Iris function

A precise iris control is available by connecting to an auto iris type camera adaptor or lens.

Compact and light weight camera head

It realizes compact and light weight camera head by employing a small optical block. The installation work to the operating microscope and the various adjustments can be done efficiently.

Camera head and CCU separate type

A CCU and a camera head were separated.

All adjustments of the image and selection of function can be done with CCU on hand. Furthermore, as vertical standing of CCU is available, it can save installation place effectively.

Color Correction (painting) function

Painting: The volume of the continuous variability is employed for the level adjustment of R ch (red) and B ch (blue).

It is effective for the fine tuning of painting.

Freeze function

It is available to keep an image in a state of freeze by pushing button on the front panel of CCU. So it can see details even if it is moving object. In case of using foot switch (option), both hands can be used freely, too.



Foot Switch (option)

Video Level Indicator

The Level Indicator indicates video level on the front panel of CCU. It is easy to check appropriate video level at all.

DV output

The DV output terminal has the capability to connect and system up with various DV equipment like a PC and a DV video recorder.

* Some equipment may not possible to connect.

Antibacterial coating

Camera head and CCU are coated with antibacterial paint, giving careful consideration to safety as well.



Design and specifications are subject to change without notice.

Rating

Optics	RGB prism method
Lens Mount	C-Mount
Image Pickup Device	1/3-inch 410,000 pixels IT CCD x 3
Scanning System	2:1 interlace 525 lines, 60 fields / 30 frames
Aspect Ratio	H4:V3
● Output Signal	VBS: 1.0Vp-p/75ohms x 2 lines [BNC]
Composite Output	Y: VS 1.0Vp-p/75ohms x 2 lines [S-Terminal]
S-VIDEO	C: 0.286Vp-p/75ohms
	R,B: 0.7Vp-p/75ohms 1 lines [Mini D-Sub 15-pin]
RGB Output	G: 1.0Vp-p/75ohms (G on Sync.)
	SYNC: 2.5Vp-p/75ohms
	YUV 4:1:1 1 line [DV connector 6-pin]
DV Output	
● Input Signal	VBS: 1.0Vp-p/75ohms Loop through [BNC]
External Sync. Input	BBS: 0.4Vp-p/75ohms
	-60dBm (Mono)
Audio Input	RS-232C 1 line [D-Sub 9-pin Male]
Remote Input	Freeze 1 line [D-Sub 9-pin Female]
Control Input	Shutter Speed 1/60 to 1/10000 variable (with shutter iris function)
Shutter Speed	Detail correction Horizontal: equivalent to 2H Vertical: 2H
Detail correction	Power Supply/Power Consumption AC100V to AC240V (±10%) 25W
Power Supply/Power Consumption	Cable Length 10m (standard) [Maximum 30m with option cable]
Cable Length	Ambient Temperature 0°C to +40°C (32.0°F to 104.0°F)
Ambient Temperature	Dimensions/Weight Camera Head: W34 X H40 X D41.4mm
Dimensions/Weight	(W1.34 X H1.57 X D1.63 inch) / 100g(0.22 lbs) or less
	CCU: W240 X H100 X D290mm
	(W9.45 X H3.94 X D11.42 inch) [without any objections]
	/ 3.5kg(7.72 lbs) or less

Performance

Resolution	Horizontal: 850 TV lines Vertical: 400 TV lines
S/N	62dB (Gamma and detail off, encoder output)
Sensitivity	Standard: 2000 lux F11/3200°K or more
Registration Error	Within 0.05% on full screen
[Function]	
Color Bar	SMPT E built in
Auto function	Auto White Balance (AWB), Auto White Shading, Auto Shutter Iris, Auto Gain Control (AGC)
Detail Enhancement	Skin Detail ON / OFF (Color Detail Correction Enhancement)
Slow Shutter	1/4 sec. to 1/60 sec.
CCD read	Field or Frame switchable
Freeze (Screen-freeze function)	Field or Frame switchable on menu
Color Correction (Paint)	R, Bch ±3dB
Brightness Control (AE LEVEL)	Brightness Control Volume provided
Video Level Indicator	7-step
Character Generator	Color designation possible
Photometric Area	Selectable on menu

External Appearance (mm)

