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C5810/C5810-10

COLOR CHILLED 3CCD CAMERA

Instruction Manual

HAMAMATSU

55470-071-001

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1. Precautions

In order to use the Color Chilled 3CCD Camera safely,read this manual carefully.

Open the Package

Open the Package carefully.Check to see whether all the components have been contained.(Refer to 3.Configuration and Accessories)

If you find the Color Chilled 3CCD Camera has been damaged when you open the package,contact us before operating.

Caution

Before operating the Color Chilled 3CCD Camera,read this manual thoroughly, and retain for future reference.

To secure the normal operation of the Color chilled 3CCD Camera, it should be avoided installing in the following places.

- Near sources of strong electric and magnetic fields.
- Near generators of strong electromagnetic radiation.
- Places exposed to ambient temperature below 0℃ and above 40℃.
- Places exposed to severs temperature change.
- Places exposed to humidity higher than 70%.
- Places exposed to vibrations.
- Places exposed to highly concentrated corrosive gases (chiorine, fluorine,etc.).
- Places exposed to dust.

Do not disassemble or alter any part. Disassembly and/or alteration of any part may cause functional problems and instant void of warranty. To reduce the risk of electrical shock,do not remove cover.

Do not bend or twist the connection cable sharply to avoid damage to the wires and shield sheath inside.

Place the camera head and control unit in a well ventilated,dust and water splash free location with a distance of at least 5cm(2 inches) between the camera head,control unit and the wall or other air flow blocking obstacles.

Do not touch the optical window on the camera head.

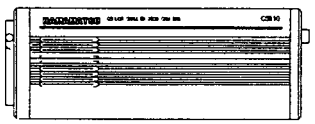
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2. Configuration and Accessories

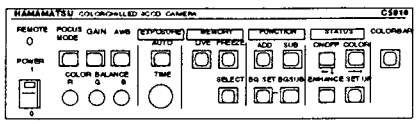
The Color Chilled 3CCD Camera comprises the following products.

Item	Q'ty
1. Camera Head	1
2. Camera Control Unit	1
3. Cables	
3-1 Camera Cable(2m long)	1
3-2 Power Cable	1
3-4 Ground Wire	1
4. Spare Fuse T1.6A/250A	1
5. Instruction Manual	1

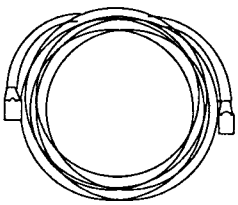
(1)Camera Head



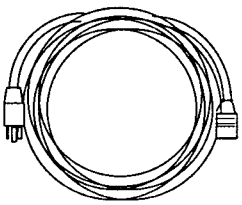
(2)Camera Control Unit



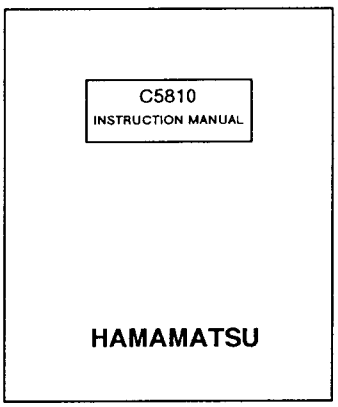
(3-1)Camera Cable



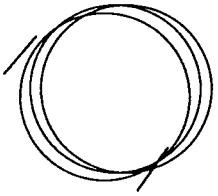
(3-2)Power Cable



(5)Instruction Manual



(3-3)Ground Wire



(4)Spare Fuse



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3.Genaral Description

The Color Chilled 3CCD Cameras C5810 Series are high-sensitive color 3CCD cameras developed for observation under low illumination and for monitoring and measurement under faint light conditions which are difficult to achieve with conventional color 3CCD cameras.

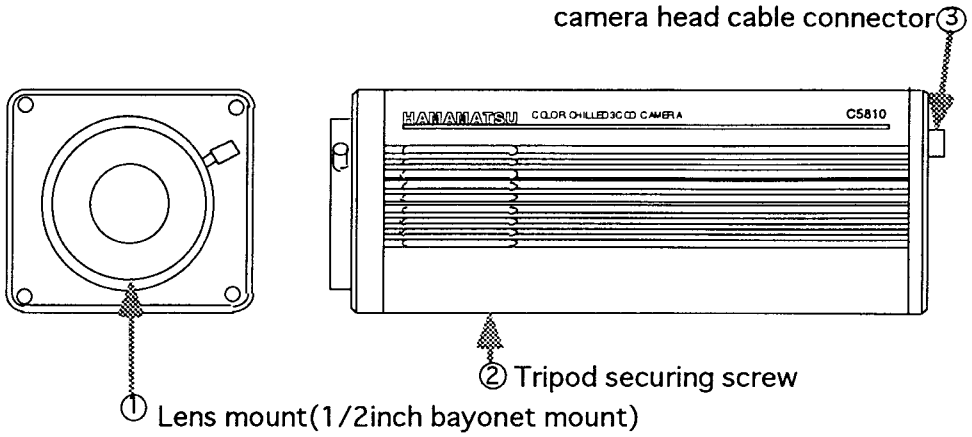
The CCD exposure time can be specified to any value range from 1/10000th of a second to 60 seconds. In addition, chilling(with fan or fan + peltier) of CCD minimizes the dark current generated during long-timeexposure. These enable extremely high quality images under low illumination.

These color chilled 3CCD cameras are also provided with built-in image memories and RS-232C and SCSI interfaces are provided as standard computer interfaces,making connections possible to almost any type of computer.

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4.Features and Their Locations

4-1 Camera Head



(1) Lens mount (1/2inch bayonet mount)

Attaches a 1/2inch bayonet mount lens or other optical equipment. Be careful not to touch or scratch the outer optical surface.

(2) Tripod securing screw

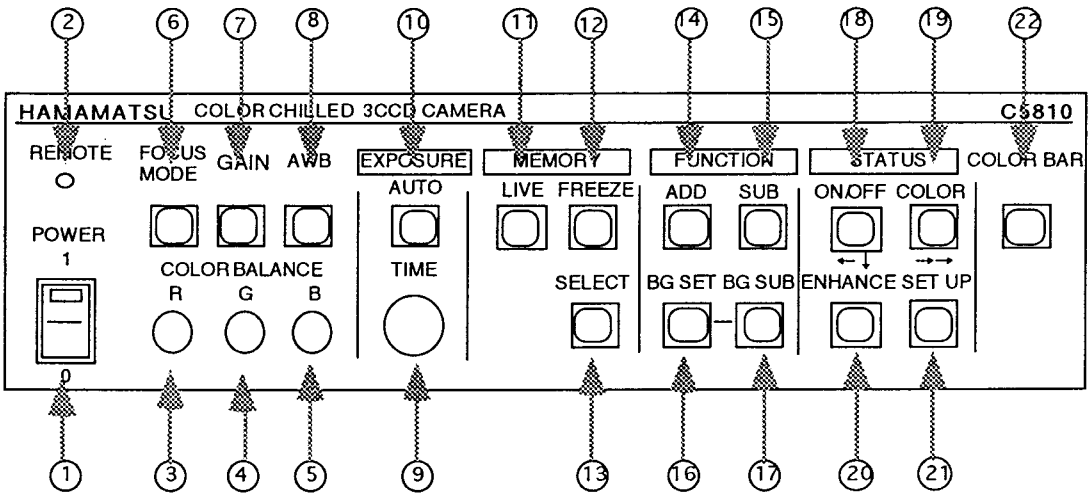
The screw for securing the Camera head on to a tripod,whose standard is 1/4-20UNC D=5.

(3) Camera head cable connector

Accepts camera head cable for connecting the Camera control unit.

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4-2 Camera Control Unit (Front View)



1. Power Switch

   Applies power to the camera head and controller.

2. Remote LED

   Lights when the controller is the remote mode.

3. Color Balance Red Knob

4. Color Balance Green Knob

5. Color Balance Blue Knob

   Adjust the each color of the input image.

6. Focus Mode Switch

   Activates the FOCUS MODE on or off.

7. AWB Switch

   Activates the Auto White Balance function on.

8. Exposure/Time Knob

   Selects the exposure time or the shutter speed by manual.

9. Exposure/Auto Switch

   Activates the auto expossure mode.

10. Memory/Live Switch

    Displays a live image on the monitor.

11. Memory/Freeze Switch

    Holds a displayed image in a memory.

12. Memory/Select Switch

    Selects a memory for display on the monitor.

    (There are two memories in the control unit.)

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13. Function/Add Switch

Adds an input image with a memoried image every image inputs.

14. Function/Sub Switch

Subtracts an input image from a memoried image every image inputs.

15. Function/BG Set Switch

Holds a back ground image in a memory.

16. Function/BG Sub Switch

Subtructs a back ground image in a memory from an input image.

17. Status/On/Off, ← ↓ Switch

Turns the status display on or off alternately.

18. Status/Color, →→ Switch

Changes a color of status display on the monitor.

19. Enhance Switch

Activates the enhance function on or off.

20. Set Up Switch

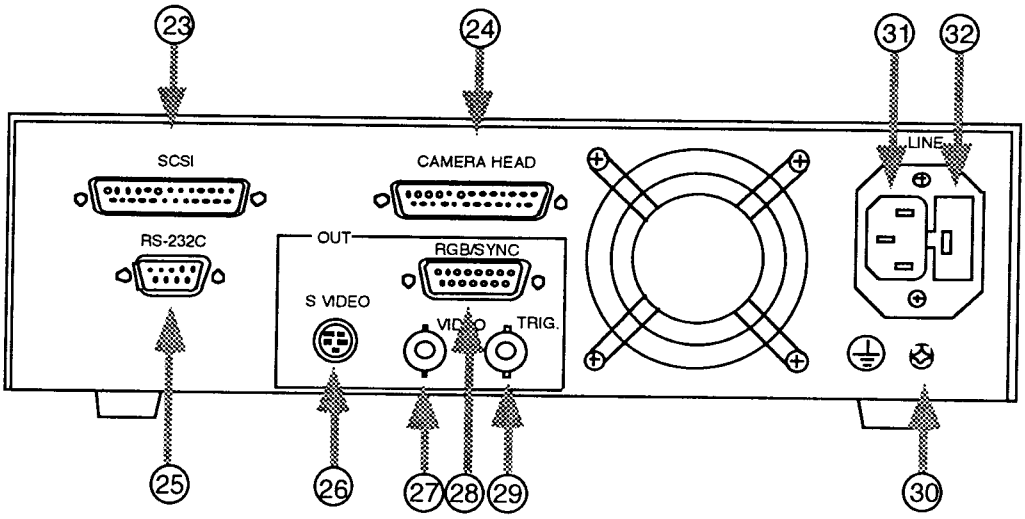
Activates the Set Up Mode on or off.

21. Color Bar Switch

Activates the color bar pattern on or off.

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4-2 Camera Control Unit (Rear View)



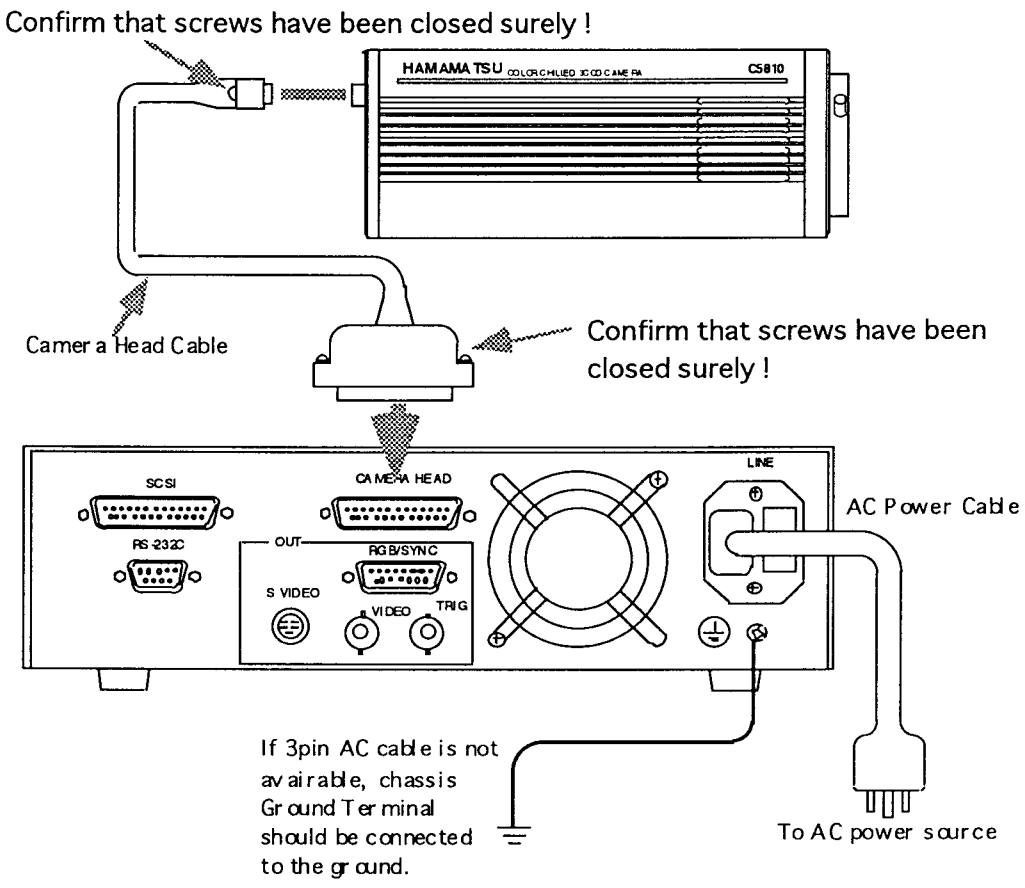
23. SCSI Interface Connector
    Accepts computer SCSI interface.
24. Camera Head Connector
    Accepts camera head cable connector.
25. RS-232C Interface Connector
    Accepts computer RS-232C interface.
26. S Video Out Connector
    Outputs S-video(Y/C separates) signal.
27. Video Out Connector
    Outputscomposite video signal.
28. RGB + Sync Out Connector
    Outputs RGB+sync video signals.
29. Trig. Out Connector
    Outputs trigger signal.
30. Power Input Receptacle
    Accepts plug of power cable.
31. Power Fuse Drawer
    Contains AC power fuse.
32. Chassis Ground Termonal
    Terminal for grounding the unit.

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5. Installation

1. Verify the power switch of camera control unit is not being turned on.
2. Connect the camera head cable to camera control unit.
3. Connect the camera head cable to camera head.
4. Connect the video output of control unit to the monitor, based on the monitor's requirements. (See next page.)
5. Plug the female plug of the AC power cable into the AC power input receptacle of the control unit.
6. Plug the male plug of the AC power cable into a grounded 3pin Ac outlet.
7. Attach the Byonet-mount lens or other optical equipment to the lens mount of camera head.
8. Turn the power switch of the monitor on.
9. Turn the power switch of the control unit on.

Cable Connections
(Camera Cable , AC Power Cable , Ground wire)

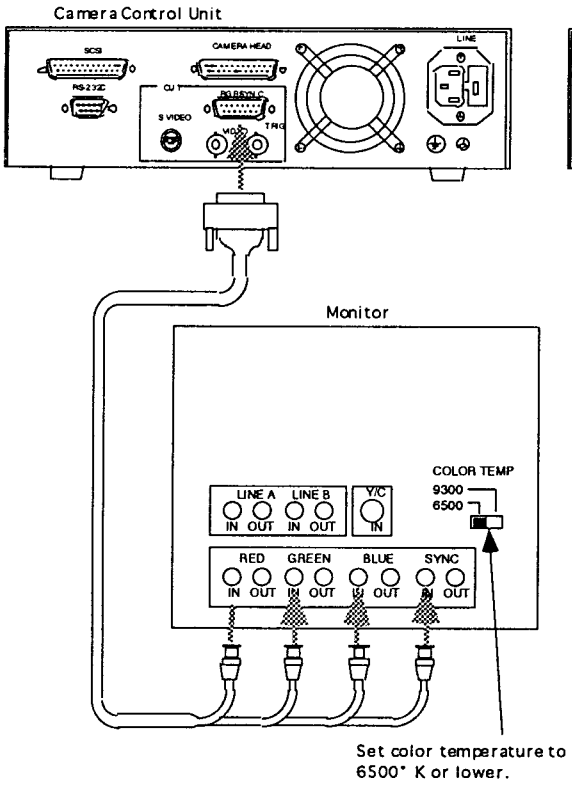


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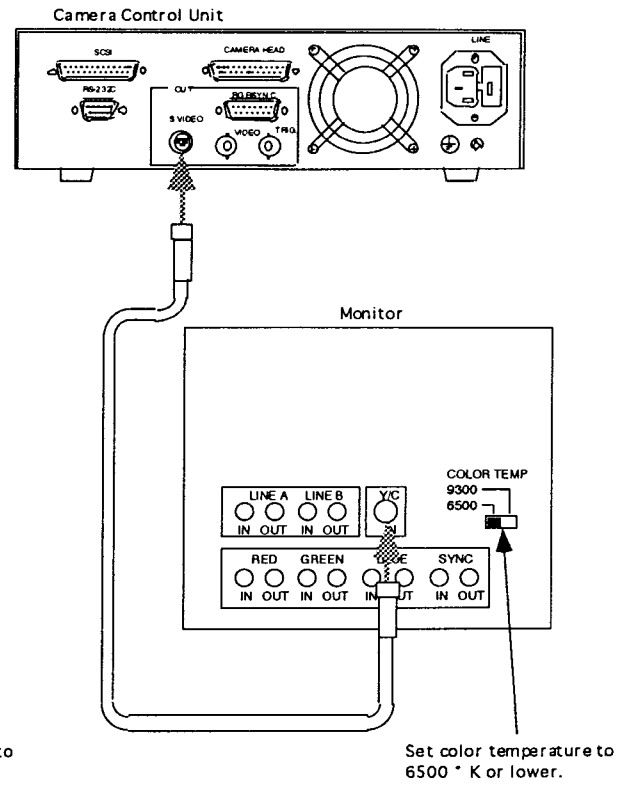
Video Cable Connections

Connect the Color Chilled 3CCD Camera outputs to the monitor,based on monitor's requirements as follows.

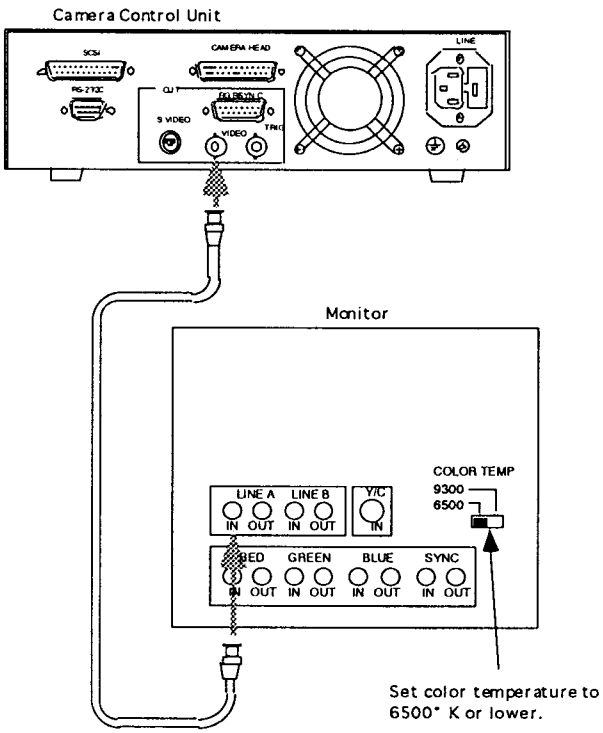
1. RGB+Sync Output



2. Y/C Output



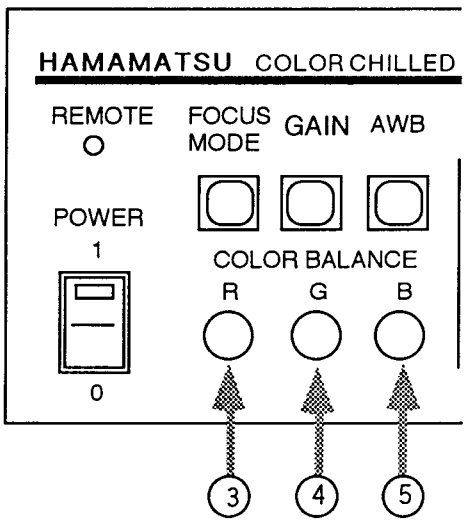
3. Composite



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6. Operation

Color Balance



In the manual color balance mode, the color balance can manualy adjust with knobs in front of the panel.

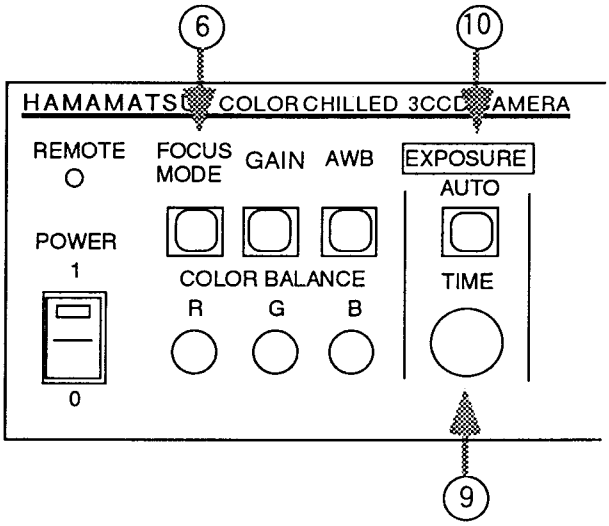
1. To increase the intensity of red, turn the R knob to clockwise.
   To decrease the intensity of red, turn the R knob to anticlockwise.

2. To increase the intensity of green, turn the G knob to clockwise.
   To decrease the intensity of green, turn the G knob to anticlockwise.

3. To increase the intensity of blue, turn the B knob to clockwise.
   To decrease the intensity of blue, turn the B knob to anticlockwise.

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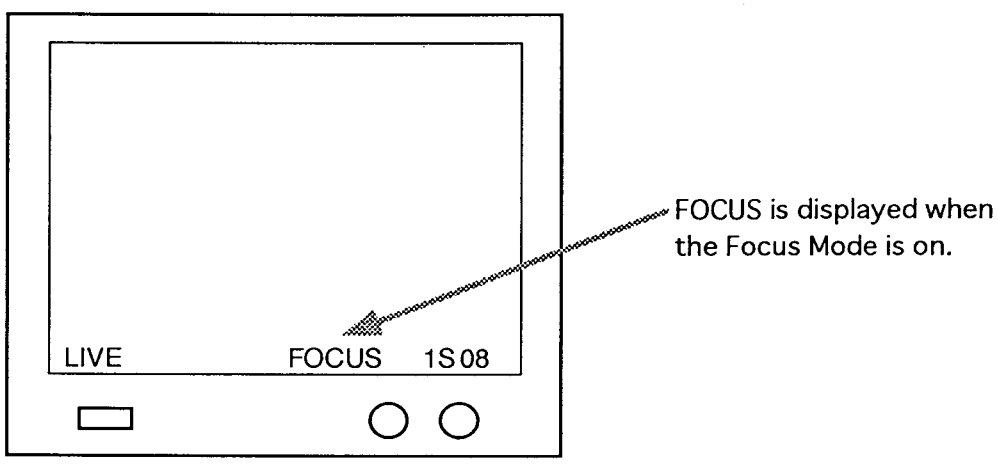
Focus Mode



You can easily adjust the focus of the optics by using this function.
In the Focus Mode, the gain and the exposure time are simultaneously change when you press the FOCUS MODE switch.

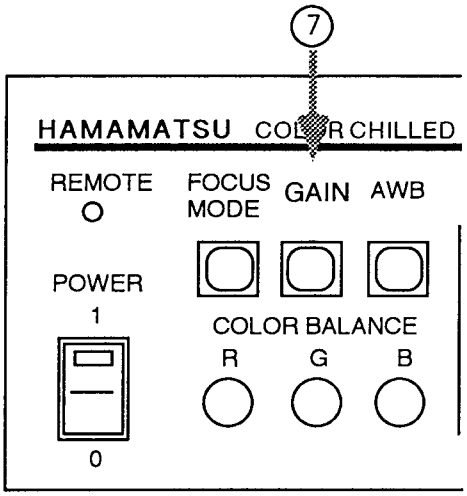
1. To activate the Focus Mode,press the FOCUS MODE switch.
   In the auto Focus mode,the message FOCUS is displayed on the monitor.
2. To change the exposure time,turn the EXPOSURE TIME knob.
   To change the gain,press the GAIN switch.
   In the Focus Mode,the exposure time can be changed between 0.033sec(EIA)/0.04sec(CCIR) up to 1sec.

3. To activate the standard mode,press the Focus Mode switch again.



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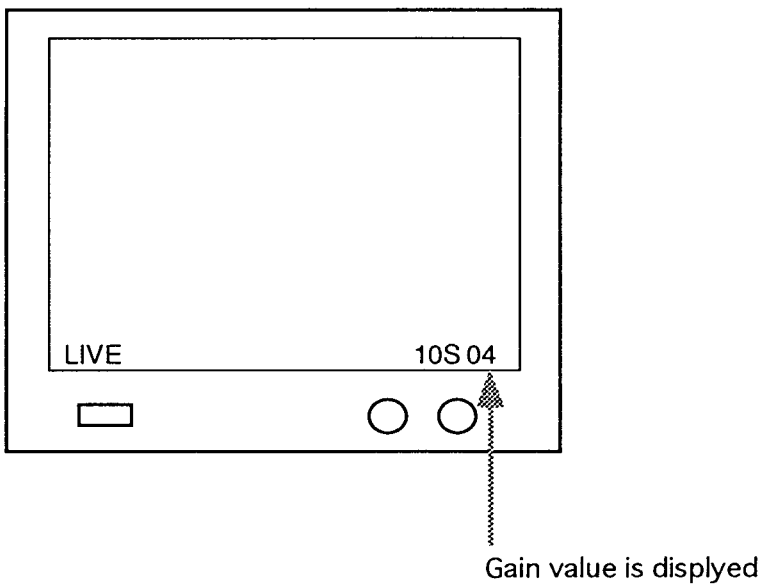
Gain



Video amplifier gain can be selected between 0 to 18dB by 1dB step.

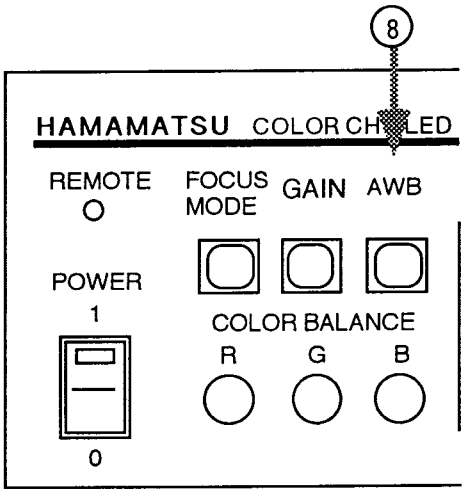
1. To change the gain,press the GAIN switch.

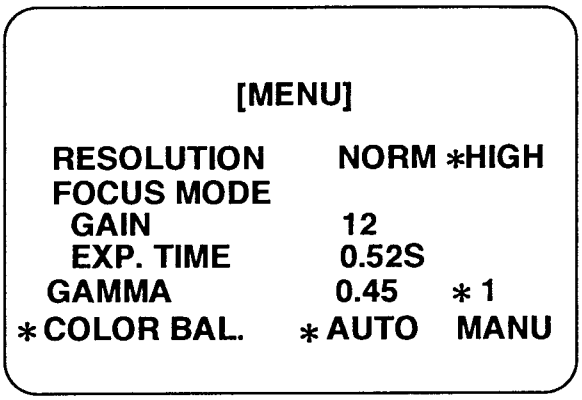
   The gain value is displayed at the bottom of the monitor.



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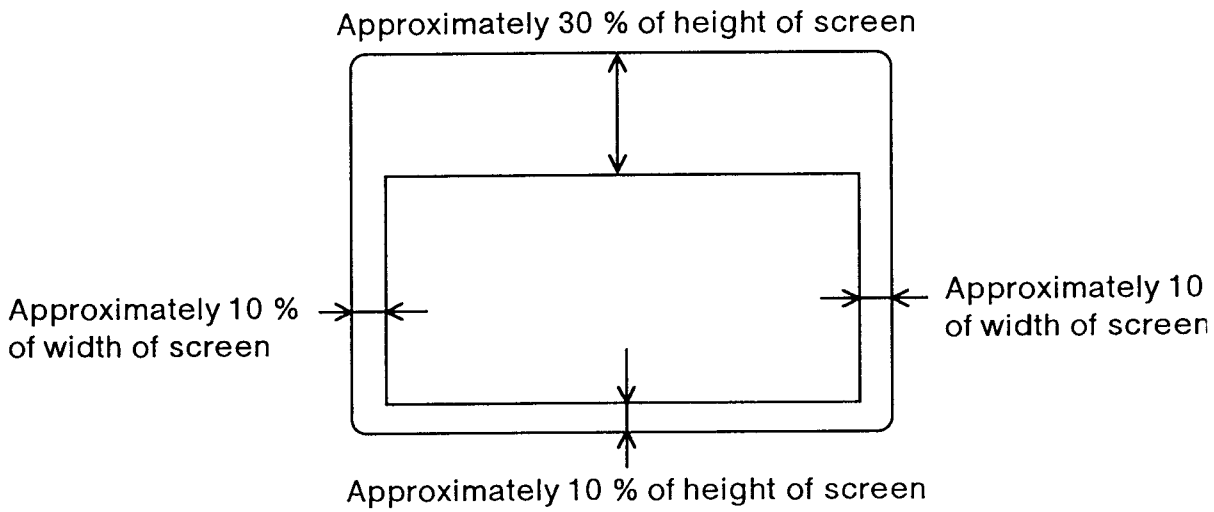
Auto White Balance





It is important to adjust the white balance depending on the light source.
Set the color balance mode to AUTO in the setup mode(show above).

Place a white object infront of the camera.
Be sure that the center of the field of view is filled with white object as show below.



Push the AWB button. If white balance was successful,the message 「WHITE OK」 will be displayed.
If error message is deiplayed, check the requirements(show next page) and adjust it once again.

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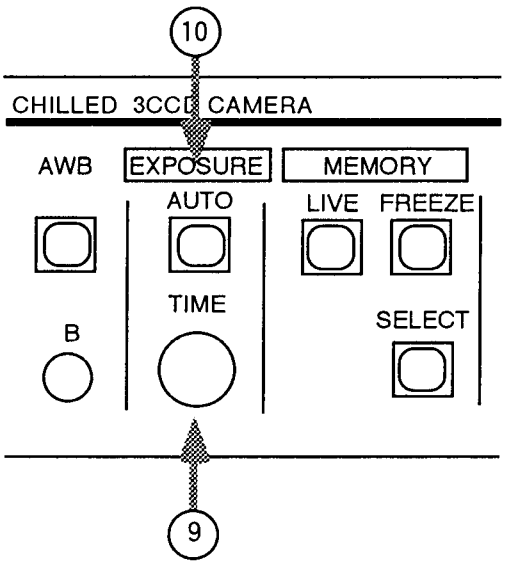
ERROR MESSAGE	CHECK
WHITE : NG LEVEL : LOW	Image intensity level is lower. • Light illumination more • Open iris more
WHITE : NG LEVEL : ???	Adjustment of white balance does not complete. • Do not put a object of high intensity in a part of screen • Adjust it in illumination under of moderate brightness When it is not successful even if adjustment it several degrees, inspection of camera is necessary.
WHITE : MANU	COLOR BAL. of menu is set up to MANU. • Change COLR BAL. to AUTO.

This function works in TV rate exposure time.

The white balance setting is retained in the memory during power off.

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Exposure Time



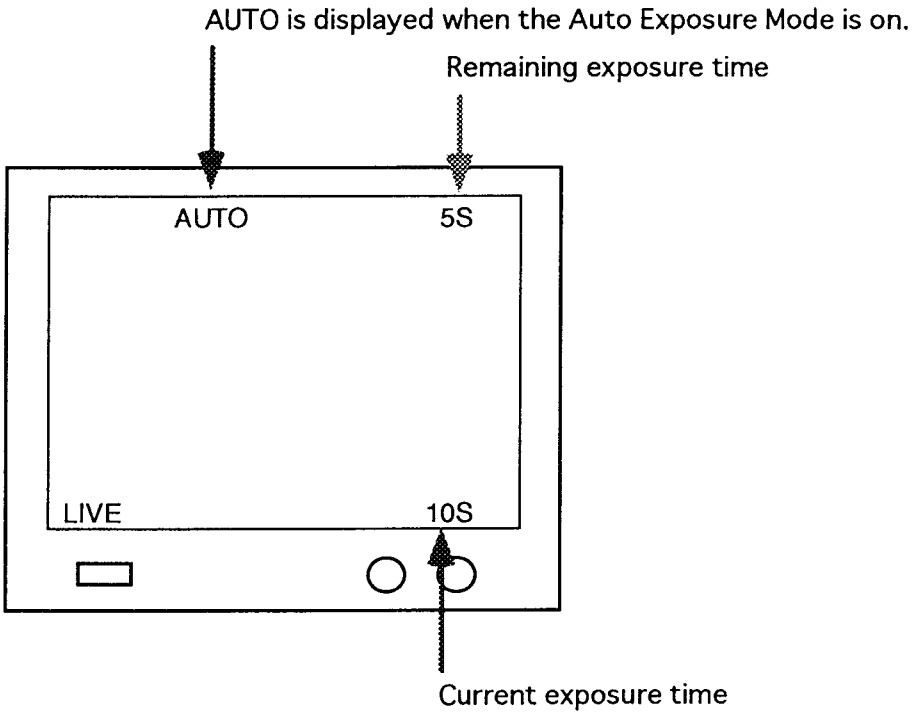
(1) Auto Exposure Mode

In the auto exposure mode,the most suitable exposure time of CCD is automatically selected in according to the brightness of input illumination.

1. To activate the auto exposure mode,press the EXPOSURE/AUTO switch. In the auto exposure mode,the message AUTO is displayed on the monitor.

2. To release the Auto Exposure Mode,turn the EXPOSURE/TIME knob. Select the exposure time by turn the EXPOSURE/TIME knob.

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(2) Manual Exposure Mode

In the manual exposure mode,the exposure time of CCD is manualy selected by the knob.

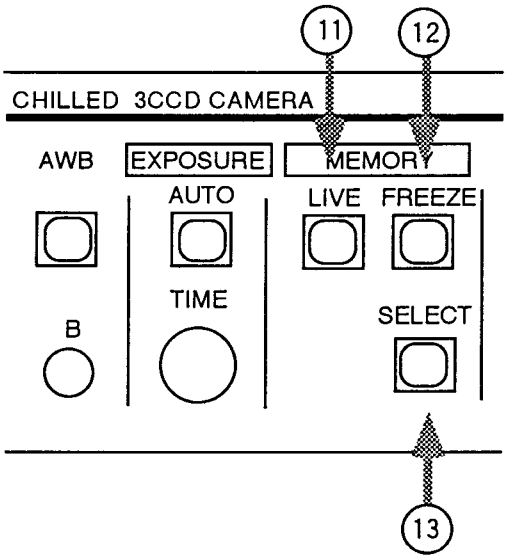
1. To change the exposure time,turn the EXPOSURE TIME knob.
   Turn the knob to clockwise,the exposure time becames long.
   Turn the knob to anticlockwise,the exposure time becames short.

   The current exposure time is displayed at the bottom of the monitor.
   If setting time is changed,it blinks till a new image is displayed.

   When the exposure time is set between 1seonds up to 60 seconds, display remaining time at the top of the monitor by when the next image is displayed.

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Live and Freeze Mode



(1) Live Mode

In the Live mode,the live image is displayed.

1. To activate the Live mode,press the MEMORY/LIVE switch.
   In the Live mode,the message LIVE is displayed on the monitor.

(2) Freeze Mode

In the Freeze mode,the current image is stored in the memory and displayed continuously.

1. To activate the Freeze mode,press the MEMORY/FREEZE switch.

(3) Memory Select

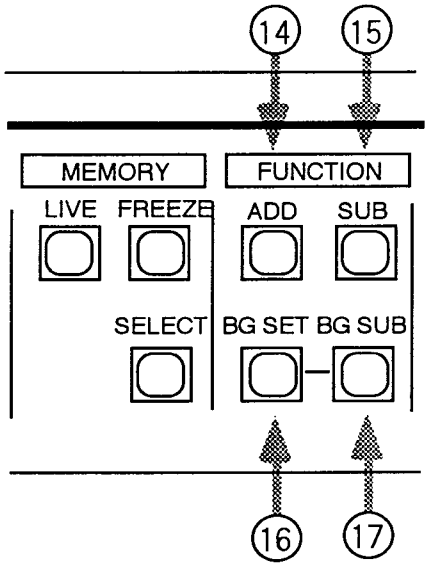
The Color Chilled 3chip CCD Camera has two memories for store the images.

This switch can select whether image is displayed on the monitor.

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Memory Function



(1) Addition (input + memory)

This function can displayed the image which is added the image of memory and the input.

1. To add the image of memory and the input. ,press the FUNCTION ADD switch.
   The message A+VIN or B+VIN will displayed on the monitor.

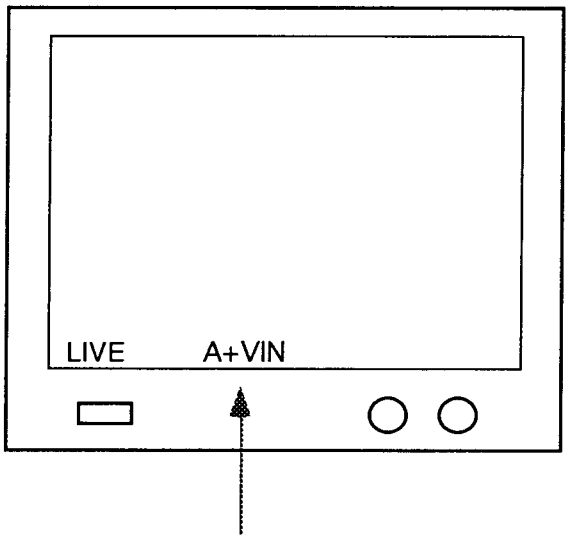
(2) Subtracton (memory - input)

This function can displayed the image which is subtructed the input image (back ground image) from the stored image in the memory.

1. Take the object image which contains the back ground.
2. To subtract the back ground,press the FUNCTION/SUB switch.
   When the switch is pressed, the image contains the back ground is stored in the memory. after pressed the switch, subtruct the inpu t image from the stored image.
   The message BG SUB is displayed on the monitor.
3. To freeze the subtracted image,press the MEMORY/FREEZE switch.

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The message is displayed when the each function is on.

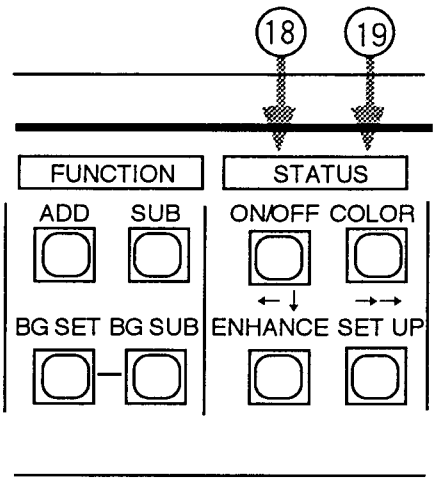
(3) Subtruction (input - memory)

This function can displayed the image which is subtructed the back ground image in the memory from the input image.

1. Take the back ground image.
2. To store the back ground image,press the FUNCTION/BG SET switch.
   The message FREEZE BG SET is displayed on the monitor.
3. Take the object image which contains the back ground.
4. To subtract the back ground,press the FUNCTION /BG SUB switch.
   The message FREEZE BG SUB will displayed on the monitor.
5. To freeze the subtracted image,press the MEMORY/FREEZE switch.

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Status



(1) Status on/off

To turn the status display on or off, press the STATUS/ON/OFF switch alternately.

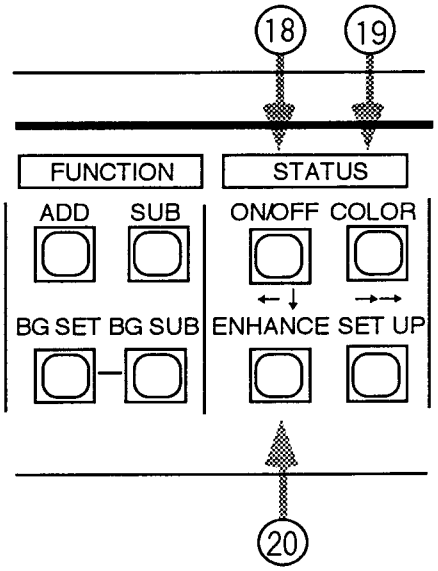
(2) Status color

To select the color of status characters, press the STATUS/COLOR switch.

Press this switch, a color changes by order of yellow, cyan, green, magenta, red, blue, black,and white.

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Enhancement



The Chilled 3chip CCD Camera has a lookup table for used to perform color enhancement. This function enhances a color to every each color of red,green ,and blue.

1. Press the ENHANCE switch once, the messages R=1.0, G=1.0, B=1.0 will displayed on the monitor.

2. Intensity of red can be enhanced by ← , → switches.
   To decrease or increase the Enhancement, press the ← or → switch respectively.

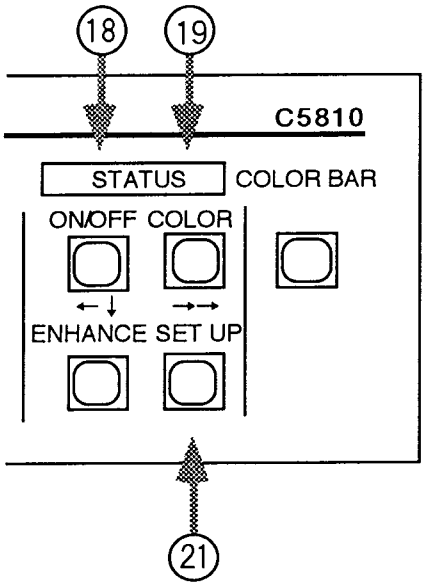
3. Press the ENHANCE switch once more, Intensity of green can be enhanced by ← , → switches.

4. Press the ENHANCE switch once more, Intensity of blue can be enhanced by ← , → switches.

5. To change back enhancement into 1.0(normal), continue pressing the ENHANCE switch until the message is displayed off the screen.

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Set up



The Color Chilled 3chip CCD Camera has the Setup mode for setup the following functions.

To activate the setup mode, press the SET UP switch. The cursor * of left side indicates a selected function. To move the cursor, press the ↓ switch.

1. Resolution

   Horizontal resolution(memory pixels) can be selected as either 640 (NTSC) / 739(PAL) or 1020(NTSC/PAL).

   To change the resolution, alternately press the → switch.

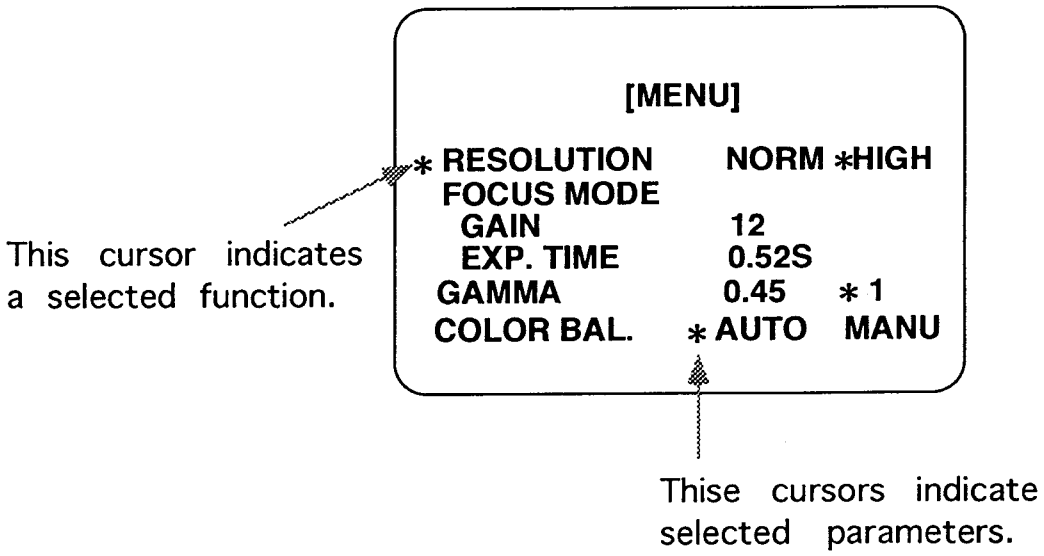
2. Focus Mode/Gain, Exposure Time

   To change the gain and exposure time in the focus mode, press the → switch.

   Gain can be selected from 0 to 18dB.

   Exposure time can be selected from 0.03s(NTSC) / 0.04s(PAL) to 1sec.

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3. Gamma

Gamma correction can be selected as either 0.45 or 1.

A gamma of 0.45 is for use with the monitor, because of a gamma of monitor is about 2.2. A gamma of 1 is for use with the image processing equipment.

To change the gamma, alternately press the → switch.

4. Color Balance Mode

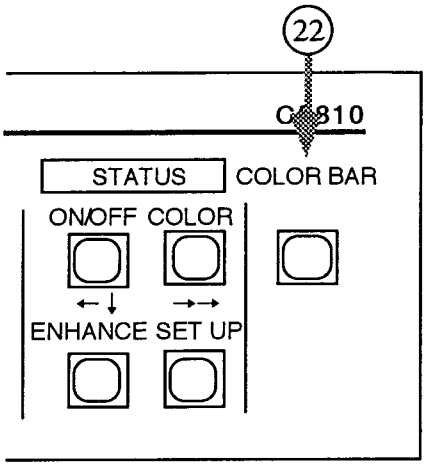
Color balance mode can be selected as either AUTO or MANUAL.

To change the color balance mode, alternately press the → switch.

All settings are retained in the memory during power off.

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Color Bar

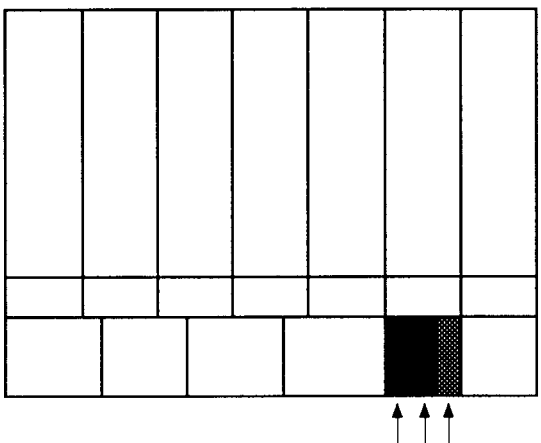


The Color Chilled 3chip CCD Camera has a color bar generator for adjustments of monitor.

1. To activate the color bar patern, press the COLOR BAR switch.

2. Contrast Adjustment
   Adjust the contrast control of the monitor to the brightest white do not bloom.

3. Brightness Adjustment
   Adjust the brightness control of the monitor as follows.



Thise bars should be black.
A difference should not be look.

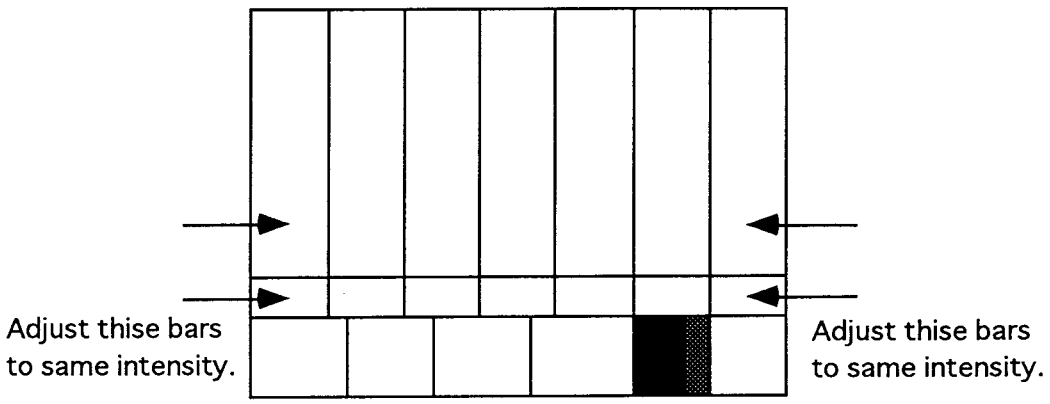
This bar should be slightly visible.

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For the chroma and phase adjustment, Turn the Blue Only switch of the monitor on .

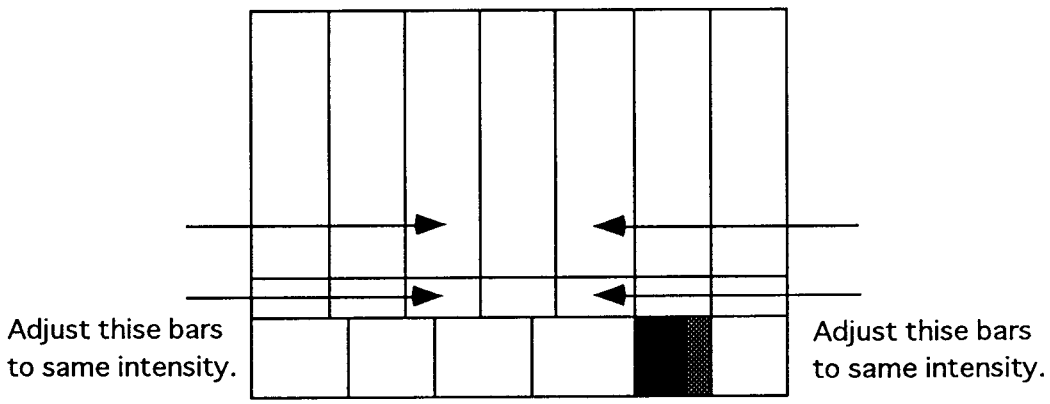
4. Chroma Adjustment

Adjust chroma control of the monitir as follows.



5. Phase Adjustment

Adjust phase control of the monitir as follows.



6. After the chroma and phase adjustments completed, turn the Blue Only switch off.

7. Press the COLOR BAR switch again to return to standard mode.

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7. Specifications

Image Acquisition Device	1/2 inch interline CCD x 3
Image Acquisition Area	Approx. 6.4mm x 4.8mm (equivalent to 1/2 inch format)
Video Signal System	C5810 : NTSC / C5985-10 : PAL
Horizontal Scanning Frequency	NTSC : 15.724KHz PAL : 15.625KHz
Vertical Scanning Frequency	NTSC : 60Hz PAL : 50Hz
Total Number of scanning Lines	NTSC : 512 lines PAL : 625 lines
Effective Number of Scanning Lines	NTSC : 482 lines PAL : 509 lines
Interlace Ratio	2 : 1
Synchronization Method	Internal synchronization
Image Output	RGB+SYNC outputs (15Pin D-Sub) Signa 0.7Vp-p/75ohms Sync. 0.3Vp-p negative/75ohms Composite Video output Composite 1.0Vp-p/75ohm S-Video outputs Y-signal 1Vp-p/75ohms C-signal 0.3Vp-p/75ohms
Lens Mount	1/2inch bayonet-mount
Chilling System	Fan air radiation system
Cooled Temperature	Approx. 2 ℃ above ambient
Exposure Time Range	1/10000sec. up to 60sec. Automatic exposure time setting mode provided
Memory Pixels	
EIA : high resolution mode	1024(H) x 483(V) x 8(D) bit
standard resolution mode	640(H) x 483(V) x 8(D) bit
CCIR : high resolution mode	1024(H) x509(V) x 8(D) bit
standard resolution mode	739(H) x 509(V) X 8(D) bit
Gain Control	0 ~ 18dB

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Operation Ambient Temperature	0 ℃(32° F) to 35℃(95° F)
Storage Ambient Temperature	-10 ℃(14 ° F)to 50 ℃(122° F)
Operation / Storage Ambient Humidity	Below 70 % (non-condensing)

Power Supply	EIA : AC90 ~ 130V 50/60Hz
	CCIR : AC180 ~ 250V 50/60Hz

Power Consumption

C5810,C5810-10	Approx. 80VA
C581-010,C5810-11	Approx. 90VA

External Dimensions(mm) and Weight(kg)

Camera Head

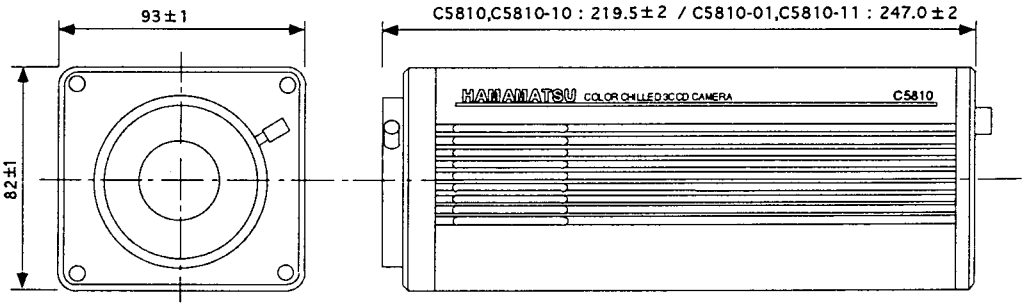
C5810,C5810-01	93(W) x82(H) x219.5(D)mm approx. 1.6 Kg.
C581-010,C5810-11	93(W) x82(H) x247.0(D)mm approx. 2.0kg

Camera control Unit	262(W)x74((H)x333(D)mm	approx. 4.2kg

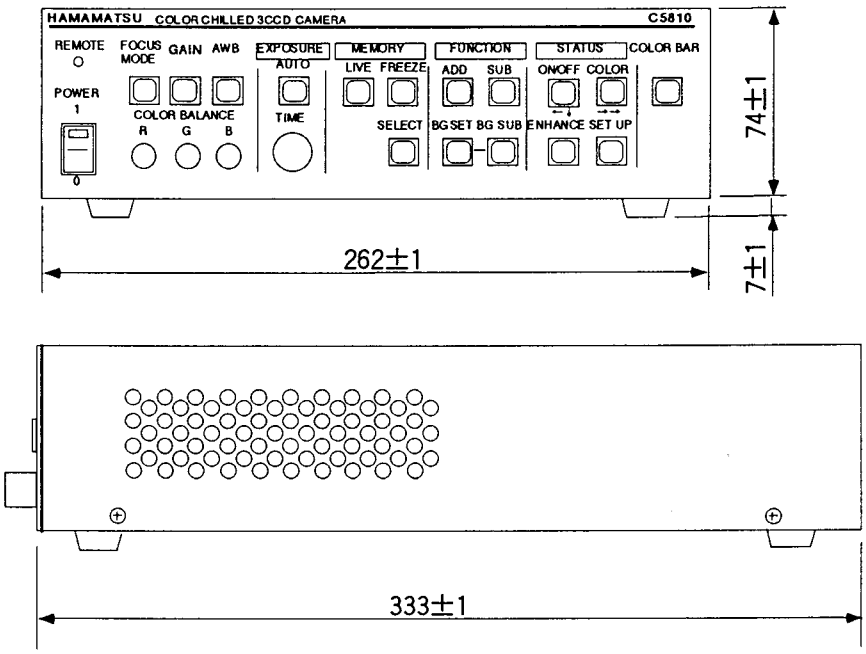
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Dimentional Outlines

Camera Head



Camera Control Unit



(Unit : mm)

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9. Warranty

The Color Chilled 3CCD Camera C5810/C5810-10 is warranted to the original purchaser against defects in materiars or workship attributable to the manu-facturer for a period of 12 mouths following the date of shipment to the original purchaser.
This warranty is limited to repair or replacement,at the sole selection of HAMAMATSU PHOTONICS KK,of any part which is defective.

This warranty shall not apply in cases that the product has been abused, altered,misused,damaged during transportation,in natural disaster,or in any other circumstances,repaired without authorization by HAMAMATSU PHOTONICS K.K. or its designated sales representatives,or has not been oper-ated and maintaind in a proper manner in accordance with the published cata-log,data sheet,and instruction manual,or has had its serial number,type number, or other identifying numbers obliterated or defaced.

In the event of a product defect,notify your participating HAMAMATSU sales representative with full details of the problem and other necessary information, and follow their instructions to return any item.

Securely pack and return the defective product under warranty for repair or re-placement along with a letter covering the full description of the problem,your name,adress,and phone number.

10. Repair

In the event the product be found or suspected to be in trouble,notify your participating HAMAMATSU sales representative by means of telephone or mail of the model number,serial number,and details of the trouble prior to the return for repair. This will minimize the time required for repair. Also please be sure to include a letter fully describing the trouble,your name,address,and phone number.

We may not agree to repair products whose repair parts have been obsolete or products which are too old or have been altered or damaged beyond re-pair.

HAMAMATSU PHOTONICS K.K., Systems Division
812 Joko-cho,Hamamatsu City,431-31,JAPAN
Telephone : 81-53-435-1569,Fax : 81-53-435-1574, Telex : 4225-187

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