



COLOR VIDEO MONITOR

TM-A13SU TM-A13UCV TM-A13SU-W

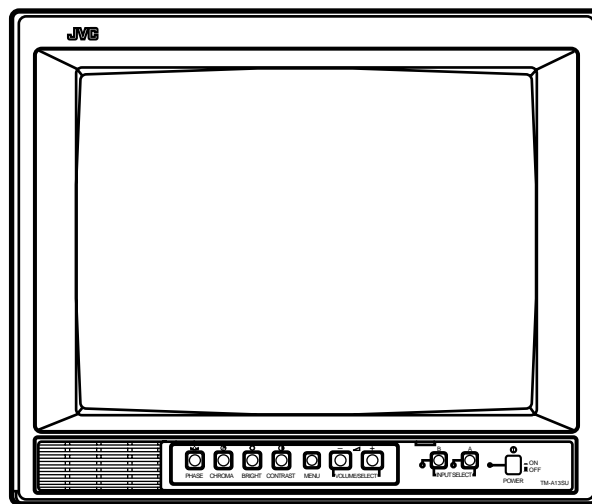
INSTRUCTIONS

For Customer Use:

Enter below the Model No. and Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. : _____

Serial No. : _____



(TM-A13SU shown)

Thank you for purchasing this JVC color video monitor. Before using it, read and follow all instructions carefully to take full advantage of the monitor's capabilities.

SAFETY PRECAUTIONS

WARNING :

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.

CAUTION :

To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.

This monitor is equipped with a 3-blade grounding-type plug to satisfy FCC rule. If you are unable to insert the plug into the outlet, contact your electrician.

FCC INFORMATION (U.S.A. only)

CAUTION: Changes or modification not approved by JVC could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

■ PRECAUTIONS

- Use only the power source specified on the unit. (120 V AC, 50/60 Hz)
- Keep flammable material, water, and metal objects away from the unit – especially the interior of the unit.
- This unit incorporates high voltage circuitry. For your own safety and that of your equipment, do not attempt to modify or disassemble this monitor. There are no user-serviceable parts inside.
- Unplug the monitor when you're not going to be using it for a long period.

■ HANDLING

- Avoid shocks or vibrations. These may damage the unit and cause it to malfunction.
- Do not block the ventilation slots.
- Do not expose this unit to high temperatures. Extended exposure to direct sunlight or a heater could deform the cabinet or cause the performance of internal components to deteriorate.
- Do not place the unit near appliances generating strong electric or magnetic fields. These can generate picture noise and instability.
- Keep the monitor clean by wiping the cabinet and CRT screen with a piece of soft cloth. Do not apply thinner or benzine. These chemicals can damage the finish and erase printed letters. When the unit is excessively dirty, use a diluted neutral cleanser, then wipe away the cleanser with a dry cloth.

SCREEN BURN

- It is not recommended to keep a certain still image displayed on screen for a long time as well as displaying extremely bright images on screen. This may cause a burning (sticking) phenomenon on the screen of cathode-ray tube. This problem does not occur as far as displaying normal video playback motion images.

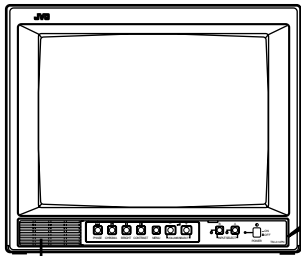
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CONTROLS AND FEATURES

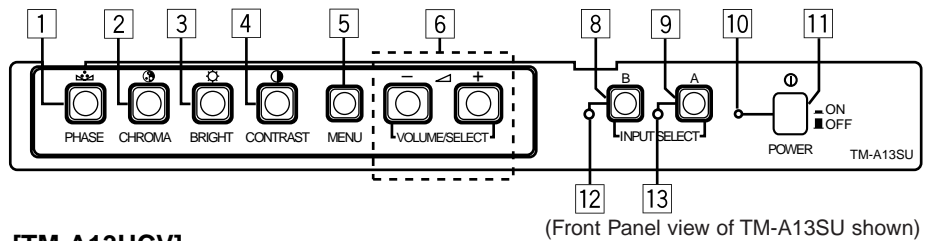
FRONT VIEW

<Front Panel>



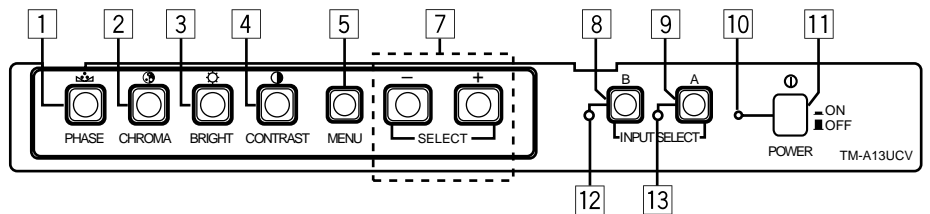
(Front view of TM-A13SU shown)

[TM-A13SU / TM-A13SU-W]



(Front Panel view of TM-A13SU shown)

[TM-A13UCV]



1 Phase button [PHASE

Press this button to set the picture hue adjustment mode. Adjust the value with the VOLUME/SELECT **6** or the SELECT **7** buttons. Also used as a control button in the menu function mode.

2 Chroma button [CHROMA

Press this button to set the picture color density adjustment mode. Adjust the value with the VOLUME/SELECT **6** or the SELECT **7** buttons. Also used as a control button in the menu function mode.

3 Brightness button [BRIGHT

Press this button to adjust picture brightness. Adjust the value with the VOLUME/SELECT **6** or the SELECT **7** buttons. Also used as a control button in the menu function mode.

4 Contrast button [CONTRAST

Press this button to adjust picture contrast. Adjust the value with the VOLUME/SELECT **6** or the SELECT **7** buttons. Also used as a control button in the menu function mode.

5 Menu button [MENU]

Displays and disappears the <MENU> screen. Pressing the PHASE button with the Menu button depressed will display the <SET-UP MENU> screen.

6 Volume/Select buttons [VOLUME/SELECT - +] (TM-A13SU and TM-A13SU-W only)

Adjusts the speaker volume. Also used as a control button in the menu function mode.

7 Select buttons [SELECT - /+] (TM-A13UCV only)

Used as a control button in the menu function mode.

8 Input B button [INPUT SELECT B]

Selects the video signal input to the VIDEO B terminal and the audio signal input to the AUDIO B terminal (RCA connector) on the rear panel. When selected, the input B indicator **12** lights.

Notes:

- * The VIDEO B terminals include a video terminal (BNC connector) and a Y/C terminal (mini-DIN 4-pin connector). The Y/C (S-video) terminal is given priority.
- * There is no Y/C terminal or AUDIO B terminal on the TM-A13UCV. They are only available on the TM-A13SU and TM-A13SU-W.

9 Input A button [INPUT SELECT A]

Selects the video signal input to the VIDEO A terminal (BNC connector) and the audio signal input to the AUDIO A terminal (RCA connector) on the rear panel. When selected, the input A indicator **13** lights.

Note:

- * There is no AUDIO A terminal on the TM-A13UCV. It is only available on the TM-A13SU and TM-A13SU-W.

10 Power indicator

Lights in green when the power is ON.

Lit : When the power is on.

Unlit : When the power is off.

11 Power switch [POWER

Press this switch to turn the power on or off.

ON : Power is turned on.

OFF : Power is turned off.

12 Input B indicator

Lights in green when the Input B is selected.

13 Input A indicator

Lights in green when the Input A is selected.

14 Built-in speaker

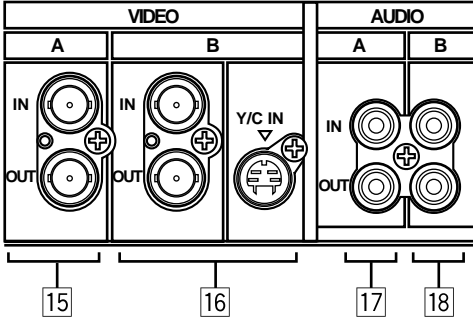
(TM-A13SU and TM-A13SU-W only)

The speaker is located inside.

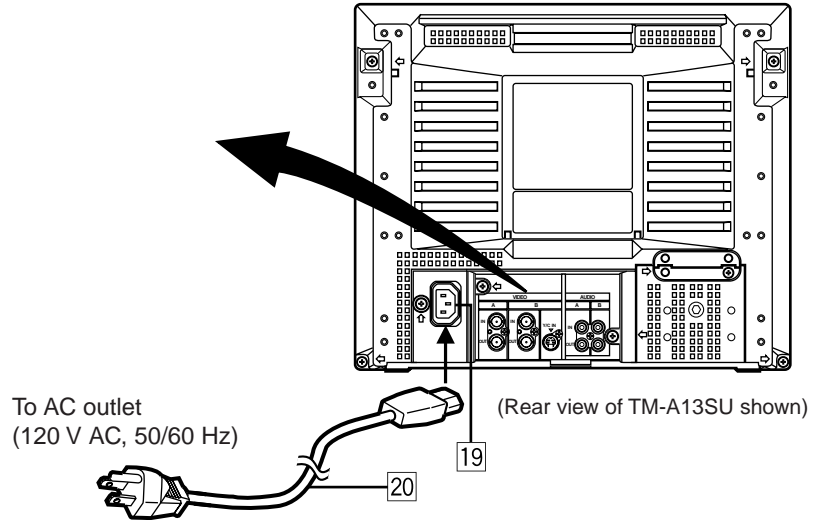
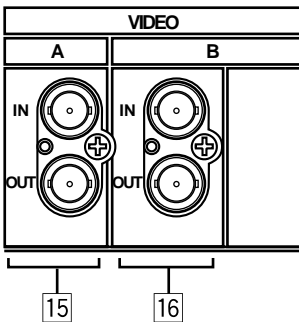
REAR VIEW

<Rear Panel>

[TM-A13SU / TM-A13SU-W]



[TM-A13UCV]



15 Video A terminals [VIDEO A IN/OUT]

Video signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected.

IN : Video signal input terminal

OUT : Bridge-connected video signal output terminal

Notes:

- * For corresponding audio signals, use the AUDIO A terminals 17.
- * There is no AUDIO A terminal on the TM-A13UCV. It is only available on the TM-A13SU and TM-A13SU-W.
- * Also refer to the Basic connection Example on page 11.

16 Video B terminals [VIDEO B IN/OUT]

[BNC connector]

Video signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected.

IN : Video signal input terminal

OUT : Bridge-connected video signal output terminal

[Y/C connector] (TM-A13SU and TM-A13SU-W only)

Y/C (S-Video) signal input (mini-DIN 4-pin connector) terminal.

Y/C IN : Y/C signal input terminal.

Notes:

- * For corresponding audio signals, use the AUDIO B terminals 18.
- * There is no Y/C terminal or AUDIO B terminal on the TM-A13UCV. They are only available on the TM-A13SU and TM-A13SU-W.
- * There is no Y/C (S-video) signal output terminal.
- * When both VIDEO B terminals are connected (input) at the same time, the Y/C terminal is given priority.
- * Also refer to the Basic connection Example on page 11.

17 Audio A terminal [AUDIO A IN/OUT]

(TM-A13SU and TM-A13SU-W only)

Input (IN) and output (OUT) terminals for the audio signal corresponding to the VIDEO A terminals 15. The output terminal is bridge-connected.

IN : Audio signal input terminal

OUT : Bridge-connected audio signal output terminal

Notes:

- * For corresponding video signals, use the VIDEO A terminal 15.
- * There is no AUDIO A terminal on the TM-A13UCV. It is only available on the TM-A13SU and TM-A13SU-W.
- * Also refer to the Basic connection Example on page 11.

18 Audio B terminals [AUDIO B IN/OUT]

(TM-A13SU and TM-A13SU-W only)

Input (IN) and output (OUT) terminals for the audio signals corresponding to the VIDEO B terminals 16. The output terminal is bridge-connected.

IN : Audio signal input terminal

OUT : Bridge-connected audio signal output terminal

Notes:

- * For corresponding video signals, use the VIDEO B terminals 16.
- * There is no Y/C terminal or AUDIO B terminal on the TM-A13UCV. They are only available on the TM-A13SU and TM-A13SU-W.
- * Also refer to the Basic connection Example on page 11.

19 AC Inlet [AC IN]

Power input connector. Connect the provided AC power cord 20 to an AC outlet (120 V AC, 50/60 Hz).

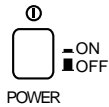
20 Power cord

Connects the provided power cord (120 V AC, 50/60 Hz) to the AC IN connector.

HOW TO HANDLE BASIC OPERATIONS

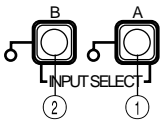
BASIC OPERATION

1. Press the POWER switch to turn on the power.



- ON : Power turns ON. (Power indicator: lit)
- OFF : Power turns OFF. (Power indicator: unlit)

2. Press the INPUT SELECT button to choose input.



Selects video/audio signals input to terminals on the rear panel.

INPUT SELECT button	Terminals on the rear panel	
	Video signal input	Audio signal input
① Input A	VIDEO A terminal	AUDIO A terminal
② Input B	VIDEO B terminal	AUDIO B terminal

* Audio signal input is not available on the TM-A13UCV.

3. Press the VOLUME/SELECT button to adjust the speaker volume.

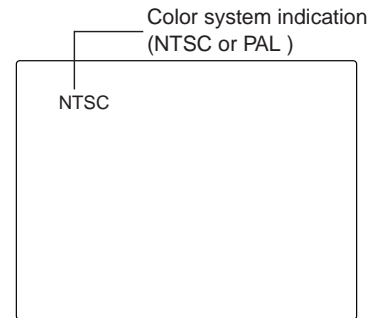
(Audio is only available on the TM-A13SU and TM-A13SU-W.)



(TM-A13SU / TM-A13SU-W)

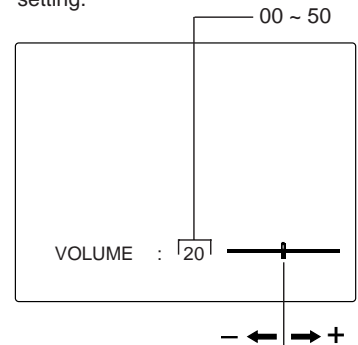
Press this button to display the speaker volume level on the screen.

- + : The Built-in speaker volume is increased. (00 → 50)
- : The Built-in speaker volume is decreased. (50 → 00)
- * Screen indication will disappear about 10 seconds after operating.



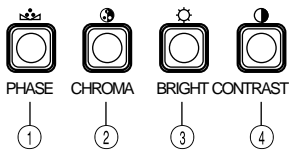
With regard to Color system indication

- With the COLOR SYSTEM setting set to AUTO mode, when you turn on the power or select inputs, the color system indication appears for about 3 seconds on the screen while PAL or NTSC signals are being detected. It does not appear when receiving B/W signal or when no signal is input. See page 7 for COLOR SYSTEM setting.



PICTURE ADJUSTMENT

1. Press select button corresponding to the item you want to adjust.



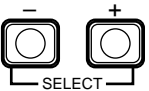
The item you select is displayed on the screen.

- ① PHASE (☁) : Phase control
- ② CHROMA (⊕) : Chroma control
- ③ BRIGHT (☀) : Brightness control
- ④ CONTRAST (●) : Contrast control

2. Adjust with the VOLUME/SELECT or the SELECT button.



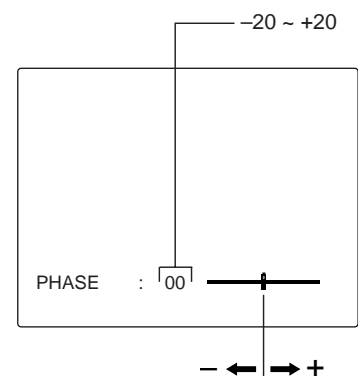
(TM-A13SU / TM-A13SU-W)



(TM-A13UCV)

Items	VOLUME/SELECT button	
	-	+
PHASE (Phase)	reddish	greenish
CHROMA (Chroma)	lighter	deeper
BRIGHT (Brightness)	darker	brighter
CONTRAST (Contrast)	lower	higher

* Screen indication will disappear about 10 seconds after operating.



Notes:

- Phase control is effective only in the NTSC color system mode.
- Chroma control is not effective when receiving B/W or when no signal is input.
- When the Chroma control is set to level " -20", the picture turns monochrome.
- " NO EFFECT" is displayed (For about 3 seconds) when your selected function has no effect.

HOW TO USE THE MENU FUNCTIONS

DISPLAY AND SELECTION IN THE <MENU> SCREEN MODE (SETTING)

You can set the following menu items.
Set them depending on your needs.

- SHARPNESS
- COLOR SYSTEM

1. Press the MENU button.

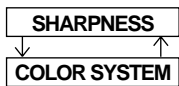


The <MENU> screen is displayed.

2. Press the PHASE () or CHROMA () button to select MENU items.

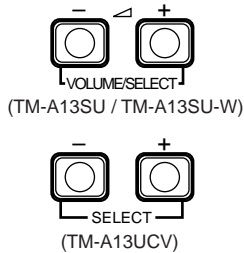


A selection mark (▶) is put next to the selected item.



Front panel button	Function displayed	Contents
PHASE ()	▼	Advance selection mark (▶)
CHROMA ()	▲	Reverse selection mark (◀)

3. Press the VOLUME/SELECT or the SELECT button to set.



Front panel button	Function displayed	Contents
VOLUME/SELECT (+) or SELECT (+)	+	Increase (to max. value)
	▶	Advance the setting value
VOLUME/SELECT (-) or SELECT (-)	-	Decrease (to min. value)
	◀	Reverse the setting value

Menu items	Purpose	Setting range
SHARPNESS	Picture sharpness	00 ↔ +1 ↔ +2 ↔ +3 ↔ +4 ↔ +5
COLOR SYSTEM	Color system	AUTO ↔ NTSC ↔ PAL

* Normally set the COLOR SYSTEM to the AUTO mode. If reception in the AUTO mode is not good, set it to the exclusive mode (NTSC or PAL) corresponding to the received color system.

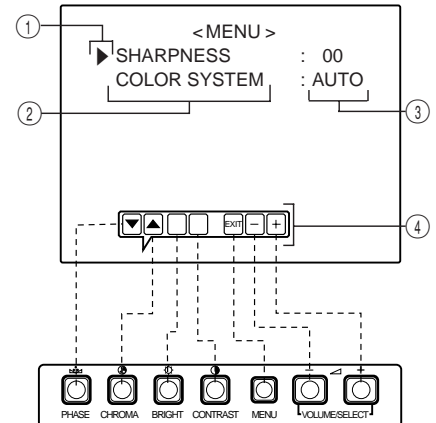
4. If you want to set the other menu items, repeat procedures 2 and 3.

5. Press the MENU button to quit.



Front panel button	Function displayed	Contents
MENU	EXIT	Quit (or Release) the <MENU> screen

<MENU> screen



<Front panel button>

- ① **Selection mark (▶):** Indicates the menu item you select.
- ② **Menu item:** Menu items you can select.
- ③ **Setting display:** Indicates the current settings (value).
- ④ **Function display:** The functions of the front panel buttons (7 buttons on the left.) correspond to the function displayed.

Function displayed	Contents
▼	Advance the menu item.
▲	Reverse the menu item.
-	Lower the adjustment value. (to the minimum)
+	Raise the adjustment value. (to the maximum)
▶	Advance the setting value.
◀	Reverse the setting value.
EXIT	Exits the <MENU> screen.

HOW TO USE THE MENU FUNCTIONS (cont'd)

DISPLAY AND SELECTIONS IN THE <SET-UP MENU> MODE (SETTING)

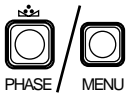
You can set the following set-up menu items.

- H. POSITION • WHITE BALANCE • CONTROL LOCK

Note:

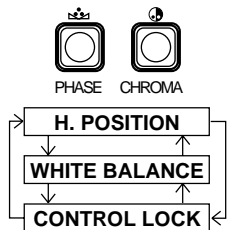
- Parameters for H. POSITION can be set separately depending on the video input (Input A or Input B) selected by the input select buttons on the front panel. Select the required video input with the input select buttons on the front panel in advance.

1. While pressing the MENU button, press the PHASE () button.



The <SET-UP MENU> screen is displayed.

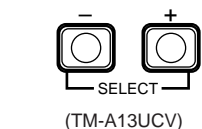
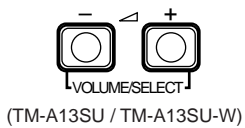
2. Press the PHASE () or CHROMA () button to select the desired menu item.



A selection mark (▶) is put next to the selected item.

Front panel button	Function displayed	Contents
PHASE ()	▼	Advance selection mark (▶)
CHROMA ()	▲	Reverse selection mark (◀)

3. Press the VOLUME/SELECT or the SELECT button to set.

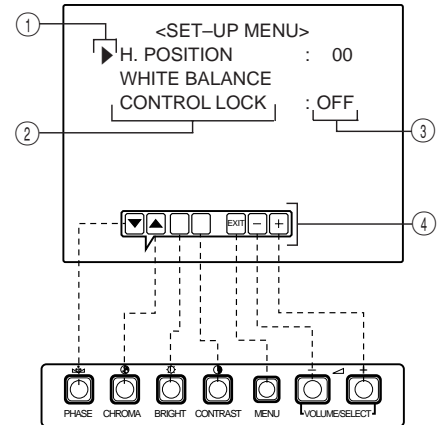


Front panel button	Function displayed	Contents
VOLUME/SELECT (+) or SELECT (+)	+	Increase (to max. value)
	▶	Advance the setting value
	CUTO	Selects CUT OFF setting screen
VOLUME/SELECT (-) or SELECT (-)	-	Decrease (to min. value)
	◀	Reverse the setting value
	DRV	Selects DRIVE setting screen

Notes:

- For the WHITE BALANCE setting, select the CUT OFF or DRIVE setting screen, then select the buttons (PHASE/CHROMA/BRIGHT) corresponding to the function indicated (R/G/B).
- To return to the <SET-UP MENU> screen, press the EXIT (MENU) button.

<SET-UP MENU> screen



<Front panel button>

- ① **Selection mark (▶):** Indicates the menu item you select.
- ② **Menu item:** Menu items you can select.
- ③ **Setting display:** Indicates the current settings (value).
- ④ **Function display:** The functions of the front panel buttons (7 buttons on the left.) correspond to the function displayed.

Function displayed	Contents
▼	Advance the menu item.
▲	Reverse the menu item.
-	Lower the adjustment value. (to the minimum)
+	Raise the adjustment value. (to the maximum)
▶	Advance the setting value.
◀	Reverse the setting value.
EXIT	Exit the <SET-UP MENU> screen (release)
DRV	Selects DRV adjustment
CUTO	Selects CUT OFF adjustment
R	Adjusts red signal level
G	Adjusts green signal level
B	Adjusts blue signal level
DISP	Turns the ON-SCREEN display on or off. (This function is effective only in the DRIVE or CUT OFF adjustment mode.)

Set-up menu items	Purpose	Settings
H. POSITION	Adjusts the horizontal position of the screen (+ : Horizontal position shifts to the right/-: Horizontal position shifts to the left)	-05 ↔ -04 ←•••→ -01↔00 ↔ +01←•••→ +04 ↔ +05
WHITE BALANCE	Adjusts the white balance	Selects DRIVE (DRV) or CUT OFF (CUTO) adjustment. Screen setting is changed to the selected setting mode. Select R/G/B buttons corresponding to the function display to adjust.
DRIVE R.DRIVE	Adjusts red level	-09 ↔ -08 ←••••••••→ -01↔00 ↔ +01←••••••••→ +08 ↔ +09
B.DRIVE	Adjusts blue level	-09 ↔ -08 ←••••~••••→ -01↔00 ↔ +01←••••••••→ +08 ↔ +09
CUT OFF R. CUT OFF	Adjusts red cut off	-09 ↔ -08 ←••••~••••→ -01↔00 ↔ +01←••••~••••→ +08 ↔ +09
G. CUT OFF	Adjusts green cut off	-09 ↔ -08 ←••••~••••→ -01↔00 ↔ +01←••~••••••••→ +08 ↔ +09
B. CUT OFF	Adjusts blue cut off	-09 ↔ -08 ←••••~••••→ -01↔00 ↔ +01←••••~••••→ +08 ↔ +09
CONTROL LOCK	Sets the operation buttons on the front panel to control lock mode	OFF ↔ ON

4. To set the other set-up menu items, repeat the procedures 2 and 3.

5. Press the MENU button to quit.



Front panel button	Function displayed	Contents
MENU	EXIT	Quit (or Release) the <MENU> screen

Notes:

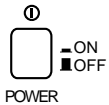
- When the CONTROL LOCK function is set to ON, pressing operation buttons on the front panel will display the message "CONTROL LOCK ON!" on the screen for about 3 seconds.
- The CONTROL LOCK function is maintained even when the power is turned off.
- To turn off the CONTROL LOCK function, while holding the MENU button press the PHASE button. Then set the CONTROL LOCK function to OFF.
- Even when the CONTROL LOCK function is set to ON, the following operations are available:
 - Power Switch operation.
 - Sound volume adjustment with the VOLUME/SELECT button. (Audio is only available on the TM-A13SU and TM-A13SU-W.)
 - Display or disappear of the <SET-UP MENU> screen.

HOW TO INITIALIZE THE SETTING

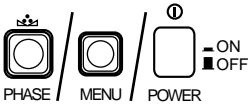
SCREEN DISPLAY AND SELECTIONS IN THE <SET-UP MENU> RESET MODE

You can set <MENU> and <SET-UP MENU> screen items, picture adjustment items and the volume level to their factory-set (initial) values.

1. Press the Power (ⓐ) Switch to turn the power OFF (■).



2. While pressing both MENU button and PHASE (ⓑ) buttons, press the Power (ⓐ) switch to turn the power ON (■).



The <SET-UP MENU> RESET screen is displayed.

Note:

- The <SET-UP MENU> RESET screen will not be displayed if the MENU or PHASE buttons are pressed for a very short time. Keep pressing them until the display screen appears.

3. Setting

● Initialization is required.



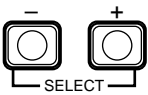
Press the CONTRAST (ⓑ) button.

* When initialization is completed, and the <SET-UP MENU> RESET screen disappears.

● Initialization is not required.



(TM-A13SU / TM-A13SU-W)

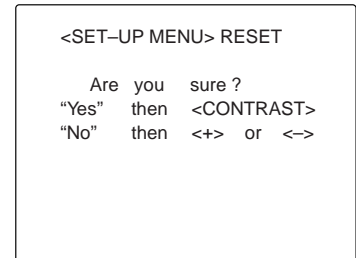


(TM-A13UCV)

Press the VOLUME/SELECT [+/-] button or the SELECT [+/-] button.

* Initialization is aborted, and the <SET-UP MENU> RESET screen disappears.

<SET-UP MENU> RESET screen



Initial settings

Sorts	Functions (Items)	Initialization (setting)
<MENU> screen	SHARPNESS	00
	COLOR SYSTEM	AUTO
<SET-UP MENU> screen	H. POSITION	00
	WHITE BALANCE	
	R. CUT OFF	00
	G. CUT OFF	00
	B. CUT OFF	00
	R. DRIVE	00
	B. DRIVE	00
CONTROL LOCK	OFF	
Picture adjustment	PHASE	00
	CHROMA	00
	CONTRAST	00
	BRIGHT	00
Volume	VOLUME	20

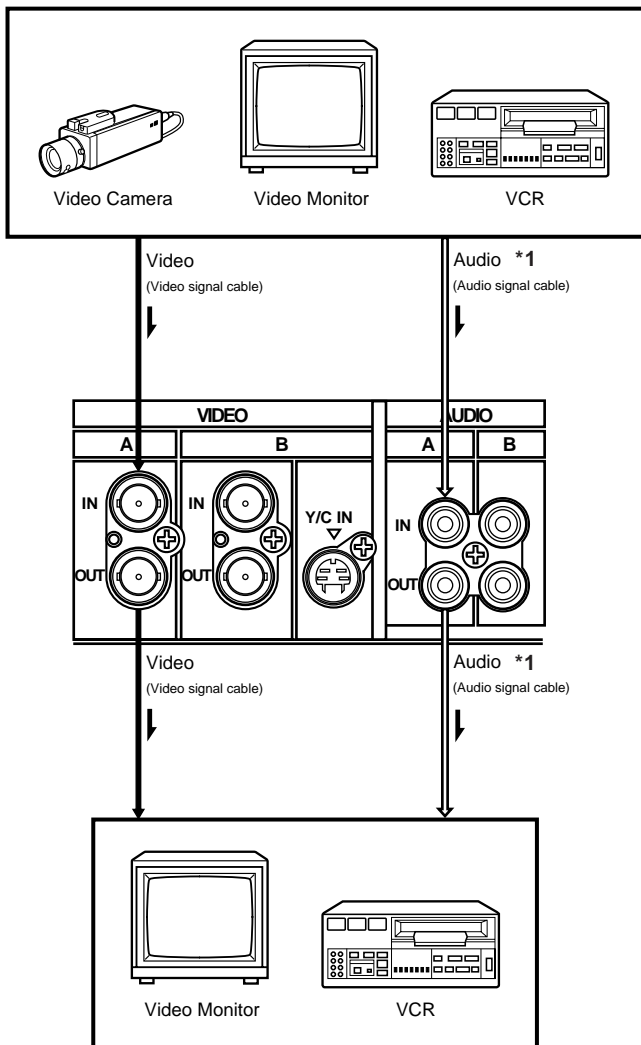
* Volume is only available on the TM-A13SU and TM-A13SU-W.

BASIC CONNECTION EXAMPLE

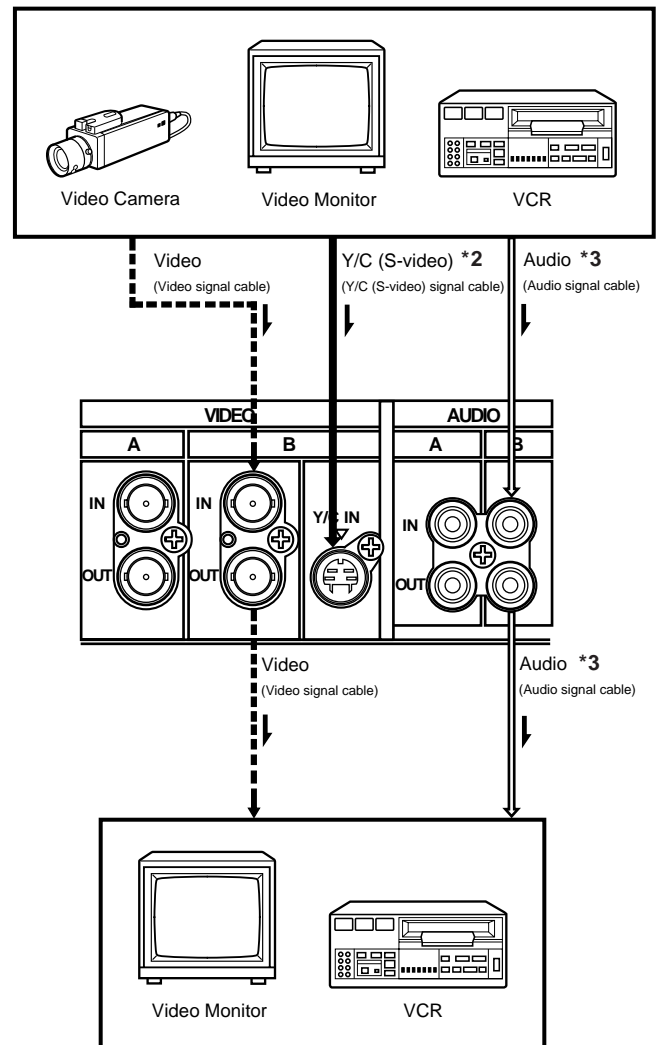
Notes:

- Before connecting your system, make sure that all units are turned off.
- The illustration below shows some examples of different connections. Terminal connections may differ depending on the component connected. Be sure to refer to the instructions provided with the unit(s) you are connecting.
- Each pair of input (IN) and output (OUT) terminals are bridge-connected. However, the Y/C input terminal (Y/C IN) has no output terminal (OUT) corresponding to it. (There is no Y/C terminal on the TM-A13UCV.)
- If you're not connecting any equipment to a bridged output (OUT) terminal, be sure not to connect any other cables to the bridged output (OUT) terminal as this will cause the terminating resistance switch to open (auto terminate function).
- When making a bridge connection, connect the input (IN) and output (OUT) terminals on the monitor to separate video components.
(For example, if both terminals are connected to the same VCR, resonance may occur except during playback. This is caused by the same video signal "looping" between the VCRs, and is not a malfunction.)
- Select the video input (Input A or Input B) with the input select button on the front panel.
- There is no Y/C terminal or AUDIO terminal on the TM-A13UCV.

VIDEO A Connection Example (Select Input A button)



VIDEO B Connection Example (Select Input B button)



↓ : Signal Flow

↓ : Signal Flow

*1 : Connection is only possible to the TM-A13SU and TM-A13SU-W.
There is no audio terminal on the TM-A13UCV.

*2 : Connection is only possible to the TM-A13SU and TM-A13SU-W.
There is no Y/C terminal on the TM-A13UCV.

*3 : Connection is only possible to the TM-A13SU and TM-A13SU-W.
There is no audio terminal on the TM-A13UCV.

TROUBLESHOOTING

Solutions to common problems related to your monitor are described here. If none of the solutions presented here solves the problem, unplug the monitor and consult a JVC-authorized dealer or service center for assistance.

Note:

- Audio is only available on the TM-A13SU and TM-A13SU-W. It is not available on the TM-A13UCV.

Problems	Points to be checked	Measures (Remedy)
No power supply.	Is the power plug loosened or disconnected?	Firmly insert the power plug.
No picture with the power on.	Is the video signal output from the connected component?	Set the connected component correctly.
	Is the input signal selected properly?	Select the required video signal input with the Input select button. (See page 6.)
	Is the video cable disconnected?	Connect the video signal cable firmly. (See page 11.)
No sound. (TM-A13SU and TM-A13SU-W only)	Is the audio signal output from the connected component?	Set the connected component correctly.
	Is the volume output set to minimum?	Adjust the speaker volume with the VOLUME/SELECT button. (See page 6.)
	Is the audio cable disconnected?	Connect the audio signal cable firmly. (See page 11.)
Shaking picture.	Is the monitor close to a device generating a strong magnetic field?	Move the device away from the monitor until the picture stabilizes.
	Is the color system selected properly?	Set the COLOR SYSTEM in the <MENU> screen mode to [AUTO] mode. (See page 7.)
	Has the picture control setting (CONTRAST, BRIGHT, CHROMA or PHASE) been changed?	Set each picture control to the standard setting. (See page 6.)
	Is the monitor close to a speaker, magnet or any other device generating a strong magnetic field?	Move the device away from the monitor and turn the monitor's power off. Wait at least 30 minutes, then turn the power on again.
	Are the operation buttons on the front panel locked? (Has CONTROL LOCK function set to ON?)	Set the CONTROL LOCK to OFF in the <SET-UP MENU> screen mode. (See pages 8 and 9.)

The following are not malfunctions:

- When a bright still image (such as a white cloth) is displayed for a long period, it may appear to be colored. This is due to the structure of the cathode ray tube and will be deleted when another image is displayed.
- You experience a mild electric shock when you touch the picture tube. This phenomenon is due to a normal buildup of static electricity on the CRT and is not harmful.
- The monitor emits a strange sound when the room temperature changes suddenly. This is only a problem if an abnormality appears on the screen as well.
- If two or more monitors are operated next to each other, their images may shake or be distorted. This phenomenon is due to mutual interference; it is not a malfunction.
Move the monitors away from each other until the interference disappears or turn the power off on any monitor that is not being used.

SPECIFICATIONS

MODEL		TM-A13SU / TM-A13SU-W	TM-A13UCV
Type		Color video monitor	
Color system		NTSC (3.58), PAL	
Picture tube		13" measured diagonally, 90° deflection, in-line gun, vertical line trio type (phosphor stripe pitch 0.64 mm)	
Effective screen size		Width	11-1/8" (280.8 mm)
		Height	8-3/8" (210.6 mm)
		Diagonal	13-1/4" (335.4 mm)
Scanning frequency		H : 15.734 kHz (NTSC), 15.625 kHz (PAL) V : 59.94 Hz (NTSC), 50 Hz (PAL)	
Horizontal resolution		320 TV lines or more (NTSC)	
Input terminals	VIDEO A	Composite video: 1 line, BNC connector x 2, 1 Vp-p, 75 Ω negative sync (bridge connection possible, auto termination)	
	VIDEO B	Composite video: 1 line, BNC connector x 2, 1 Vp-p, 75 Ω negative sync (bridge connection possible, auto termination)	
		Y/C-separated: 1 line, mini-DIN 4-pin connector x 1 Y: 1.0 Vp-p, 75 Ω C: 0.286 Vp-p, 75 Ω (NTSC), 0.3 Vp-p, 75 Ω (PAL)	
	AUDIO A	1 line (monaural), RCA pin x 2, 0.5 V rms, high-impedance (bridge connection possible)	
	AUDIO B	1 line (monaural), RCA pin x 2, 0.5 Vrms, high-impedance (bridge connection possible)	
Audio power output		1 W (monaural)	
Built-in speaker		8 cm round x 1, impedance of 8 Ω	
Environmental conditions		Operation temperature: 0 – 40 °C (32 – 104 °F) Operation humidity: 20 – 80% (non-condensing)	
Power requirements		120V AC, 50/ 60 Hz	
Power consumption		0.87 A (120 V AC)	0.77 A (120 V AC)
Dimensions		Width	14-1/2" (368 mm)
		Height	12-1/4" (310 mm)
		Depth	14-3/4" (371.5 mm)
Weight		21.2 lbs (9.6 kg)	20.9 lbs (9.5 kg)
Accessory		AC power cord [7.87 ft (2.4 m)] x 1	

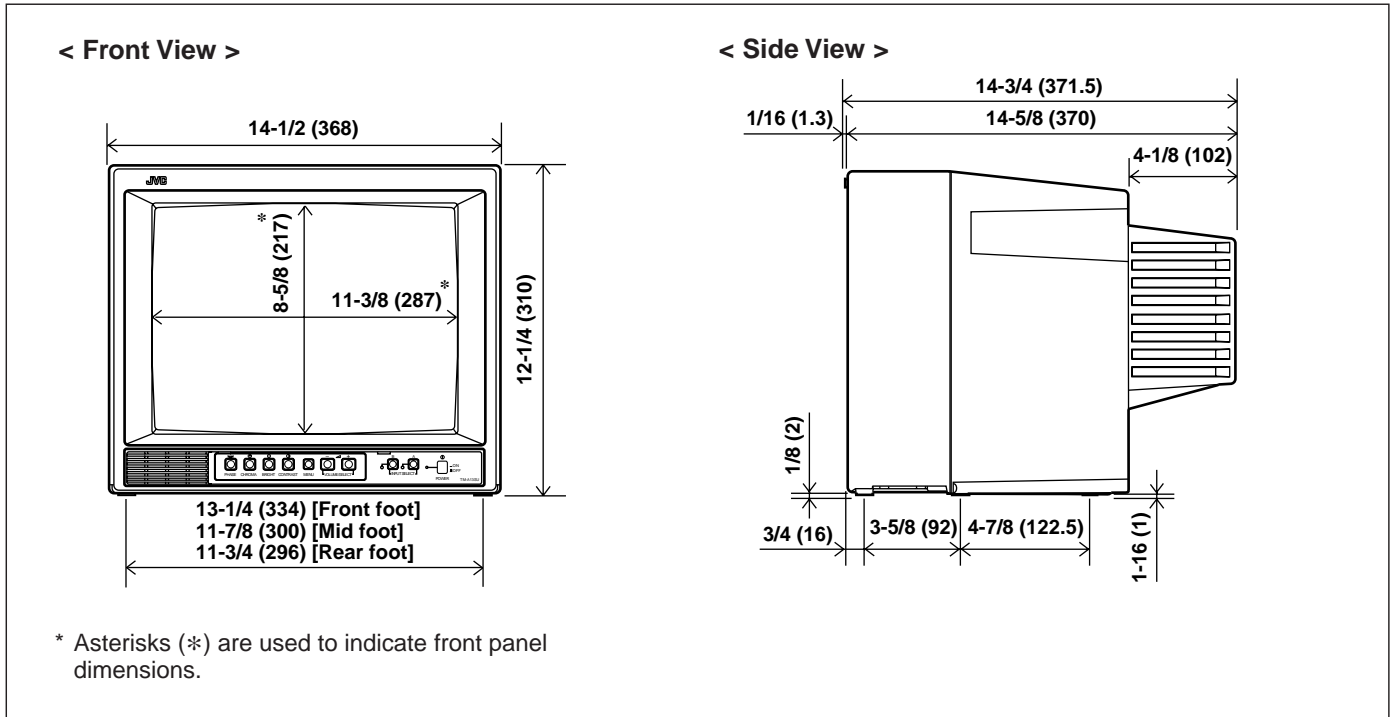
* Illustrations used in this manual are for explanatory purposes only. The appearance of the actual product may differ slightly.

* Dimensions and weight are approximate.

* E. & O. E. Design and specifications subject to change without notice.

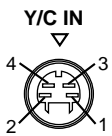
■ Dimensions

Unit : Inch (mm)



(TM-A13SU shown)

■ Y/C (Mini DIN 4 pin) terminal specification



Pin No.	Signal
1	GND (Y)
2	GND (C)
3	Y
4	C

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