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. There 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>

1. Phase button [PHASE ]
   Press this button to set the picture hue adjustment mode. Adjust the value with the VOLUME/SELECT or the SELECT 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 or the SELECT 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 or the SELECT 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 or the SELECT 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 –/+]
   Adjusts the speaker volume. Also used as a control button in the menu function mode.

7. Select buttons [SELECT –/+]
   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 lights.

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 lights.

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.

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

Note:

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

2. Press the INPUT SELECT button to choose input.

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

PICTURE ADJUSTMENT

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

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

<table>
<thead>
<tr>
<th>Items</th>
<th>VOLUME/SELECT button</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHASE (Phase)</td>
<td>reddish</td>
</tr>
<tr>
<td>CHROMA (Chroma)</td>
<td>lighter</td>
</tr>
<tr>
<td>BRIGHT (Brightness)</td>
<td>darker</td>
</tr>
<tr>
<td>CONTRAST (Contrast)</td>
<td>lower</td>
</tr>
</tbody>
</table>

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 monochromic.
- "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 (.rpm) or CHROMA (.rpm) button to select MENU items.

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

<table>
<thead>
<tr>
<th>Front panel button</th>
<th>Function displayed</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHARPNESS PHASE (.rpm)</td>
<td>▼</td>
<td>Advance selection mark (►)</td>
</tr>
<tr>
<td>COLOR SYSTEM CHROMA (.rpm)</td>
<td>▲</td>
<td>Reverse selection mark (◄)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Front panel button</th>
<th>Function displayed</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLUME/ SELECT (+) or SELECT (+)</td>
<td>+</td>
<td>Increase (to max. value)</td>
</tr>
<tr>
<td>VOLUME/ SELECT (–) or SELECT (–)</td>
<td>–</td>
<td>Decrease (to min. value)</td>
</tr>
</tbody>
</table>

### Menu items

<table>
<thead>
<tr>
<th>Menu items</th>
<th>Purpose</th>
<th>Setting range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHARPNESS</td>
<td>Picture sharpness</td>
<td>00 → +1 → +2 → +3 → +4 → +5</td>
</tr>
<tr>
<td>COLOR SYSTEM</td>
<td>Color system</td>
<td>AUTO → NTSC → PAL</td>
</tr>
</tbody>
</table>

* 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.

<table>
<thead>
<tr>
<th>Front panel button</th>
<th>Function displayed</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>MENU</td>
<td>EXIT</td>
<td>Quit (or Release) the &lt;MENU&gt; screen</td>
</tr>
</tbody>
</table>

---

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

---

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

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

### Table of Front Panel Button Functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLUME/SELECT (+) or SELECT (+)</td>
<td>+ Increase (to max. value)</td>
</tr>
<tr>
<td>VOLUME/SELECT (-) or SELECT (-)</td>
<td>− Decrease (to min. value)</td>
</tr>
<tr>
<td>PHASE ( )</td>
<td>▼ Advance selection mark ( )</td>
</tr>
<tr>
<td>CHROMA ( )</td>
<td>▲ Reverse selection mark ( )</td>
</tr>
<tr>
<td>CUTO</td>
<td>Selects CUT OFF setting screen</td>
</tr>
<tr>
<td>DRV</td>
<td>Selects DRIVE setting screen</td>
</tr>
</tbody>
</table>

### 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 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 ––03 ––02 +01 ––01 ––00 +01 ––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 ––07 ––06 ––05 ––04 ––03 ––02 +01 ––01 +02 ––02 +03 ––03 +04 ––04 +05
| | B.DRIVE | Adjusts blue level | –09 ––08 ––07 ––06 ––05 ––04 ––03 ––02 +01 ––01 +02 ––02 +03 ––03 +04 ––04 +05
| CUT OFF | R. CUT OFF | Adjusts red cut off | –09 ––08 ––07 ––06 ––05 ––04 ––03 ––02 +01 ––01 +02 ––02 +03 ––03 +04 ––04 +05
| | G. CUT OFF | Adjusts green cut off | –09 ––08 ––07 ––06 ––05 ––04 ––03 ––02 +01 ––01 +02 ––02 +03 ––03 +04 ––04 +05
| | B. CUT OFF | Adjusts blue cut off | –09 ––08 ––07 ––06 ––05 ––04 ––03 ––02 +01 ––01 +02 ––02 +03 ––03 +04 ––04 +05
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.
  - 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 (①) Switch to turn the power OFF (■).

2. While pressing both MENU button and PHASE (②) buttons, press the Power (①) switch to turn the power ON (■).

3. Setting

- Initialization is required.

- Initialization is not required.

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.

Are you sure?
"Yes" then <CONTRAST>
"No" then <+> or <->

Functions (Items) Initialization (setting)

<table>
<thead>
<tr>
<th>Screens</th>
<th>Functions (Items)</th>
<th>Initialization setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;SET-UP MENU&gt;</td>
<td>SHARPNESS</td>
<td>00 AUTO</td>
</tr>
<tr>
<td>RESET screen</td>
<td>COLOR SYSTEM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H. POSITION</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>R. CUT OFF</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>G. CUT OFF</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>B. CUT OFF</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>R. DRIVE</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>B. DRIVE</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>CONTROL LOCK</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>PHASE</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>CHROMA</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>CONTRAST</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>BRIGHT</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>VOLUME</td>
<td>20</td>
</tr>
</tbody>
</table>

Note:
* 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)

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*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.

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

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.
- 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

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

* 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)

< Front View >

< Side View >

* Asterisks (*) are used to indicate front panel dimensions.

(TM-A13SU shown)

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

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GND (Y)</td>
</tr>
<tr>
<td>2</td>
<td>GND (C)</td>
</tr>
<tr>
<td>3</td>
<td>Y</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
</tr>
</tbody>
</table>