

SONY

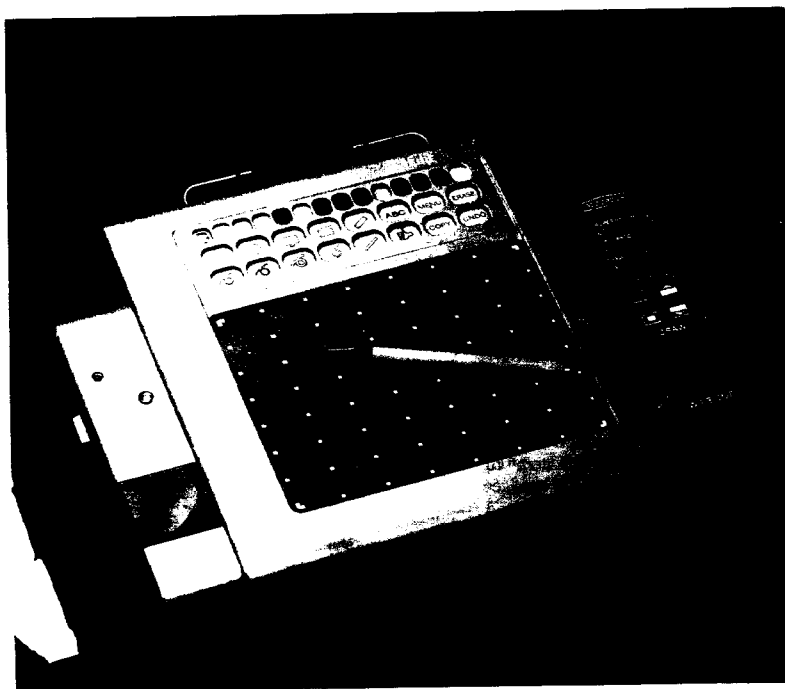
3-752-636-22 (1)

Video Sketch Titler

XV-T33

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.



Edit Studio

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Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. XV-733 Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

IMPORTANT

This equipment generates and uses radio frequency energy, and if not related with the proper installation and use, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart 1 of Part 15 FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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:

Reorient the receiving antenna.

Relocate the equipment with respect to the receiver.

Move the equipment away from the receiver. Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the U.S. Government Printing Office, Washington, DC 20540. Stock No. 004-000-00345-4.

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Precautions

On Safety

- Operate the unit on 120 V AC, 60 Hz.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. Never pull the cord itself.
- When lightning occurs, unplug the power cord from the wall outlet immediately.
- Do not touch the cabinet as you may get an electric shock if you touch inside the cabinet.
- Do not spill any liquid inside the cabinet. Fire, electric shock, or malfunction may result.
- Do not place heavy material on the unit.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.

On Installation

- Do not install the unit near a heat source such as a radiator or an air duct, near a MW radio or tuner (noise may occur) or in a place subjected to direct sunlight, excessive dust, humidity, mechanical vibration or shock.
- The unit should be operated in a horizontal position.
- Never operate the unit in a vertical position.

On Cleaning

Clean the cabinet with a dry soft cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene, that may damage the finish.

On the Pad

- Use the supplied drawing pen with the pad.
- Do not forcefully strike the pad or press hard against it with the pen.
- Do not scrape the pad (as the drawn line may be broken).
- Do not forcefully press against the pad with your hand as the position of the pen may slip.

If you have any questions about this unit, contact your Sony dealer.

How to Use This Manual

This manual is intended for users of the XY T23 Video Sketch Titer. It explains how to operate the video sketch titer, including a quick start section for new users.

This manual is divided into the following sections.

Introduction

Preparation

Quick start

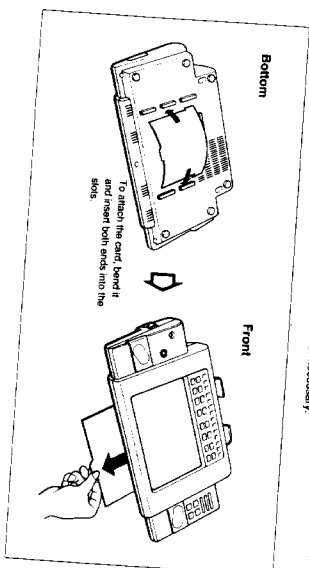
Basic operations

Advanced operations

Additional information

Using the Quick Reference Card

The Quick Reference Card provides abbreviated instructions for using the video sketch titer. To remove the card from the back of the titer, pull the card out to refer to it whenever necessary.



Overview

Using the video camera recorder is always enjoyable when you travel or want to record a videotape you have made. But do you feel something is missing from the way you make your videotape more fun and memorable by creating and adding titles onto your videotape.

The Tiler allows you to do the following procedures easily with an on-screen menu:

- create a title using three types and two sizes of font
- create a title by freehand writing and drawing
- create a title and an illustration using sample titles and illustrations
- scroll in and out a title in four different ways
- superimpose a title on the video picture
- create a title for two screens simultaneously

Without titles

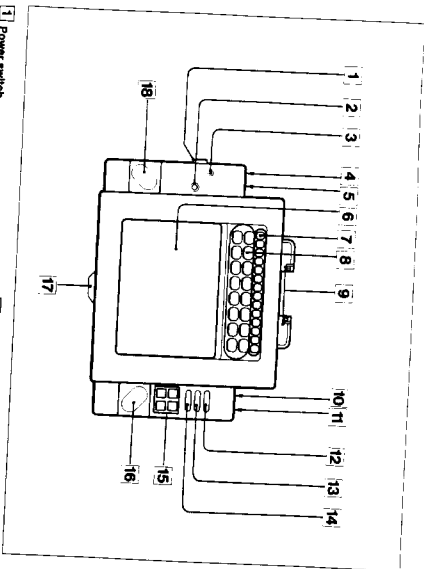


With titles



Identifying the Parts

Familiarize yourself with the parts of the Tiler before you start the operations.



- 1 Power switch**
Switch on to turn on the power.
- 2 CLEAR button**
Press to clear the screen.
- 3 POWER indicator**
Lights up when the power goes on.
- 4 S VIDEO Input jack**
Use this jack to connect to the S video output jack of the player.
- 5 VIDEO Input jack**
Use this jack to connect to the video output jack of the player.
- 6 Pad**
Use this pad to draw titles on using the supplied pen.
- 7 Color select keys**
Select the color of the title. (Choose the rainbow color (see "Rainbow colors" on page 36). (T) chooses transparent.
- 8 Drawing keys**
Select various ways to create a title. See "Drawing" on the "Drawing Keys" on page 9 for details.
- 9 Pen holder**
Lay the supplied pen on this holder.
- 10 S VIDEO output jack**
Use this jack to connect to the S video input jack of the recorder.

Identifying the Parts

- 11 VIDEO output jack**
Use this jack to connect to the video input jack of the recorder.

- 12 SUPERIMPOSE button and indicator**
You can superimpose titles on the video picture when the indicator lights up. Each time you press this button, the indicator lights up and goes out alternately.

Indicator	What you see on the screen
On	The title on the video picture
Off	The title only

13 1 PAGE 2 button and indicators

The video sketch title has two screens to scroll through. When you press the button, the screens scroll left with. These screens are called PAGE 1 and PAGE 2. Select the screen you want to work on. Press the button, the indicators of PAGE 1 and PAGE 2 light up alternately.

Indicator	You are working on
PAGE 1 is on	The title on page 1
PAGE 2 is on	The title on page 2

- 14 DRAW STANDBY button and indicators**
Select the mode for creating and scrolling the titles.

Indicator	You are
DRAW is on	Creating the title
STANDBY is on	Ready to scroll the title

15 WIPE PATTERN buttons and indicators

Select how to scroll the title.
When you press the button, the indicator lights up.
The following table shows the function of each button.

Button	How the title scrolls
	Appears and disappears instantly
	Scrolls from the bottom upwards
	Scrolls from the top downwards
	Appears from the center and scrolls outwards or disappears as it goes from the title edge to the center

16 DRAWWIPE OUT button

Press when creating a title. Also, press to make the title disappear.

- 17 Quick reference card**
Use the card to conveniently refer to the use of the title.

18 DRAWWIPE IN button

Press when creating a title. Also, press to scroll in the title.

Function of the Drawing Keys

The following table shows the function of the drawing keys.

Drawing key	Function	Reference page
	Draw a square.	25
	Draw a circle.	25
	Draw a caption.	25
	Draw a wooden board.	25
	Draw a wooden line.	25
	Select a letter.	15, 23
	Select a sample title and illustration.	24
	Erase a title and illustration.	29
	Draw a thin curved line.	24
	Draw a thick curved line.	24
	Draw an outlined curved line.	24
	Draw a checkered curved line.	24
	Draw an outlined straight line.	25
	Paint a title and illustration.	27
	Copy a title and illustration.	28
	Undo a previous action.	29

Connecting Video Equipment

Connect the filter to video equipment before you start recording. This section explains two ways to connect video equipment to the filter. connection and connection using the S-video jacks.

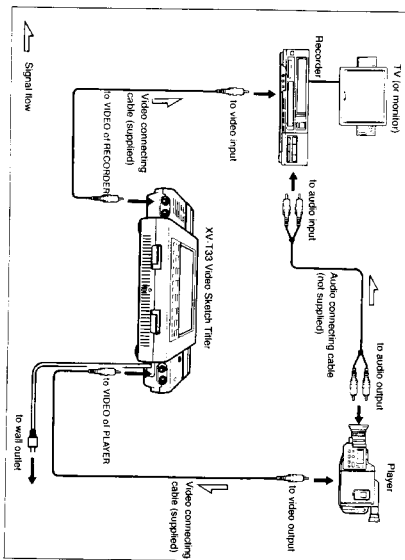
Video Equipment Used with the Filter

When using the filter, you need the following video equipment for connection:

- a TV or a monitor for creating files and viewing the video picture
- a VCR or a video camera recorder for playing the original video material
- a VCR for recording the files and original tapes combined (recorder)

Basic Connection

The following illustration shows the connection of the filter with the video equipment.



Note on Connection

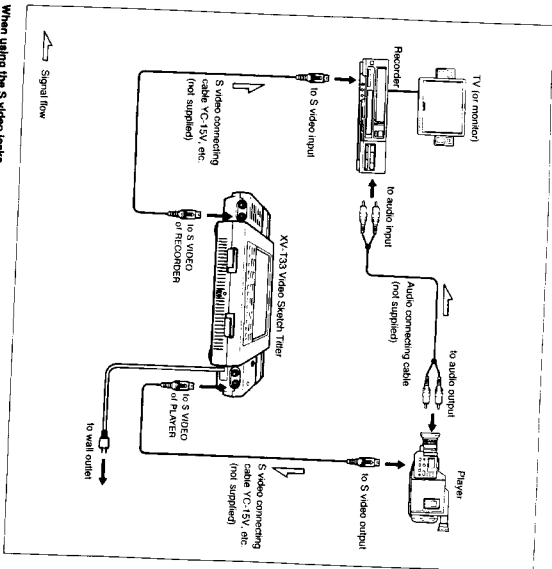
Be sure to turn off the power of the filter and video equipment before connection.

About the Player and the recorder

- Connect the red plug to the audio right jack (red).
- Connect the white plug to the audio left jack (white).
- Connect the yellow plug to the video jack (yellow).
- When the player or the recorder is a manual type, use a manual AV connecting cable such as VMC-910MS/920MS (phone plug X 2 - phone plug X 3) (not supplied).
- When both the player and the recorder have the video jacks, we recommend you to use the S-15V/20V/15EV/30EV.

Connection Using the S-Video Jacks

The following illustration shows the connection of the filter with video equipment that has the S-video jacks.



When using the S-video jacks

When you use either the video input jack or the S-video jack, you must input the signal from the player, the signal is output from the video output jack, and the S-video output jack. But get a clearer picture from the player, we recommend you to use

the S-video jacks of the player and the recorder when using the S-video jacks of the video or use the video jacks of the player and the recorder when using the video jacks of the filter.

Before You Begin

Before using the titler, check the connections and prepare the player and the recorder as follows.

Connection

Check that the player and the recorder are connected to the titler. If not, refer to page 10.

Player

- Insert the originally recorded tape.
- When the player has an input/output selector for the video tape (set it to ON (or output)).
- Set the power switch to VTR (PLAYER) (or ON).

Recorder

- Insert a tape for recording. Check that the safety tab is not in the preventive position.
- Set the input selector to LINE IN.
- Make the necessary settings for recording such as recording mode, recording level, etc. See the operating instructions of the recorder for details.

Trying Out the Titler

To demonstrate the titler's most basic operations, this section shows how to create a simple title and add the title to a video picture. It is helpful for beginners who want to start using the titler right away. For details about the basic operations demonstrated here, see the "Basic Operations" on page 20. More advanced operations are detailed in "Advanced Operations" on page 31.

The Procedure for Making a Video Picture with a Title

The procedure for making a video picture with a title is as follows:

1

Record a videotape with your video camera recorder (or other VCR).



2

Create a title for the video picture you have prepared using the titler.



3

Add the title you have created onto the tape, and record the tape with the title onto a new tape or a tape you are editing.



Trying Out the Titrer

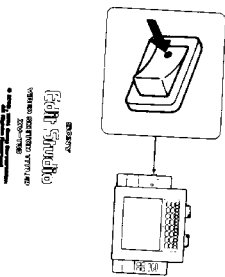
Getting Started

The titler provides a demonstration picture of sample titles when you turn on the power. This demonstration shows you what you can do with the titler.

1 Turn on the power of the video equipment.

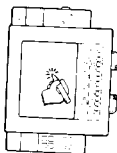
2 Turn on the power of the titler.

The demonstration appears on the screen.



3 When you finish looking at the demonstration or want to exit from it, touch the pad with the drawing pen.

The demonstration stops. Now, you can start creating your own titles.



To stop using the titler.

Turn off the power of the titler.

Note

Once you turn off the power, the title you have created is lost.

14 Quick Start

Creating a Title

Create a title using the letters of the alphabet. For example, create the word CHAMPIONS in the center of the screen as shown below.

Before you begin

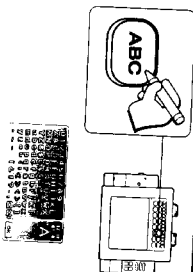
We use the following words in this manual:

choose: Move the icon on the monitor by moving the pen on the pad, then press either DRAW/WIPE IN or DRAW/WIPE OUT while the move.
move: Move the icon on the monitor by moving the pen on the pad.
DRAW: The DRAW/WIPE IN button and the DRAW/WIPE OUT button are called "DRAW."

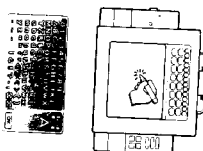
CHAMPIONS

1 Press **ABC** with the pen.

The alphabet menu appears on the screen.



2 Press the pad with the pen to display the icon on the screen.

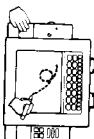


(continued)

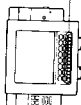
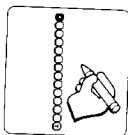
Quick Start 15

3 To change the type or size of the font, choose **FONT** or **SIZE**.

There are three types of font. Each font has two sizes, large and small. Each line you choose (**FONT** or **SIZE**), the type or size of a letter changes. You see it change by watching the letters on the right side of the menu.



4 Press one of the color select keys with the pen to select the color of the font.



5 Choose **CHAMPIONS** from the menu.

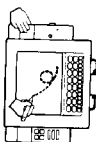
The letters you have selected appear on the bottom of the screen.

To correct a letter:

Choose **↵**. The very last letter on the bottom of the screen disappears. Select a correct letter.

To make a space between the letters:

Choose **␣**.



(continued)

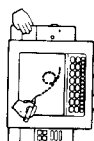
6 Choose **OK** when you finish selecting the letters.

A select box indicating the bounds of the selected letters appears on the screen.



7 Move the select box to the position where you want to add the letters on the video picture, then press **DRAW** while the box is holding the position.

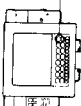
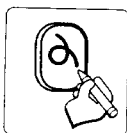
The letters you have selected appear on the screen inside the select box.



To change the position of the title: Move the select box to the new desired position, then press **DRAW**.

8 Press **↵** with the pen.

The select box disappears from the screen. Now you are ready to add the letter onto the video picture.



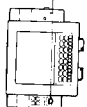
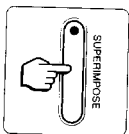
CHAMPIONS

Adding the Title onto the Video Picture

Add the title you have created onto the video picture. For example, add the title to the picture of the champions from the bottom of the screen to the top of the screen. make the title disappear (wipe out) by scrolling upwards off the screen.

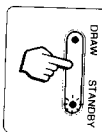


1 Press SUPERIMPOSE to turn on the indicator.



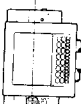
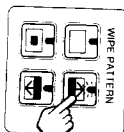
2 Press DRAW

The **STANDBY** (right) indicator lights up



3 Press one of the WIPE PATTERN buttons.

In this lesson, select **WIPE** to scroll from the bottom upwards.



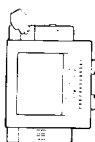
(continued)

4 Locate the start of the scene you want to make the title appear, and set the player to playback/pause mode and the recorder to recording/pause mode.



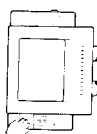
5 Start playback and recording, then press DRAW/WIPE IN.

The title scrolls in from the bottom to the center.



6 Press DRAW/WIPE OUT when the playback picture comes to the scene you want the title to disappear from.

The title scrolls upwards and out of the screen.



7 Stop the recorder and the player when you finish editing the tape.

You have finished using the tiler to create and add a title. Now you can create any title you like and add it onto your videotape. If you want to know more about the use of the tiler, go to the next section.

Working with the Tiler

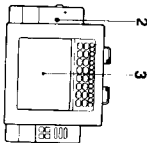
You can learn the basic use of the tiler in the section "Trying Out the Tiler". In this section, you find how to start and end the tiler and how to use the screens.

Starting the Tiler

- 1** Turn on the power of the video equipment.
- 2** Turn on the power of the tiler.
- 3** Press the pad with the pen to stop the demonstration.

Notes

- When pressing buttons or keys on the tiler, you can hear a small sound from the tiler. To make the tiler silent, turn on the power while pressing the DRAW/WIPE IN or DRAW/WIPE OUT.
- When the power of the tiler is off, pressing buttons on the screen even though the power of the player is on does not change the picture from the player, turn on the tiler and press the pad with the pen.



Ending the Tiler

Turn off the power of the tiler.

Note

The tiler you have created are lost once you turn off the power.

Adjusting the Screen Position

Press either DRAW/WIPE IN or DRAW/WIPE OUT and one of the following WIPE PATTERN buttons simultaneously.

To adjust the screen position	Press
to left	
to right	
to up	
to down	

Note

You cannot create a tile in the upper and lower margins of the screen.

Using Two Screens

You can use two screens simultaneously to create tiles.

To change the screen

Press 1 PAGE 2.

1 PAGE 2



Each time you press 1 PAGE 2, the screen changes alternately.

You can learn the basics of title creation in the section "Trying Out the Title".
In this section, you find how to choose fonts, sample titles and illustrations, how to draw titles, how to paint titles, how to copy titles and illustrations, how to set the background colors, and how to copy titles and illustrations.

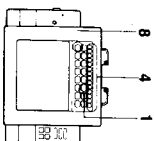
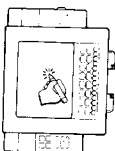
When Creating a Title

When creating a title, make sure the DRAW (left) indicator of DRAW STANDBY is lit.

To light up DRAW
Press DRAW STANDBY.



OR
Press the pad with the pen when watching the demonstration.



Choosing Fonts

You can choose from three types and two sizes of font as well as insert the Spanish accent (for details). When choosing fonts, you can also choose colors.

1 Press **ABC** with the pen.
2 Move the icon to **FONT**, then press DRAW while the icon is touching **FONT**, to change the type of font.

To change the type of font again
Repeat Step 2.

3 Move the icon to **SIZE**, then press DRAW while the icon is touching **SIZE**, to change the size of the font.
To change the size of font again
Repeat Step 3.

4 Press one of the color select keys with the pen to select the color of the font.

5 Move the icon to one of the letter of the menu one by one, then press DRAW while the icon is touching the letter to select the letters.

To insert an accent mark

Select a letter, then select the accent mark for the letter. The accent mark automatically comes with the letter. Accent marks conform to Spanish usage only. You can choose ã, é, í, ó, ú, Ñ, and ñ for the accent mark.

To correct a letter

Move the icon to **✖**, then press DRAW while the icon is touching **✖**. The selected letter on the bottom of the screen disappears. Select a correct letter as in Step 5.

To make a space between the letters

Move the icon to **␣**, then press DRAW while the icon is touching **␣**.

6 Move the icon to **OK**, then press DRAW while the icon is touching **OK** when you finish selecting the letters.

7 Move the select box to the position where you want to add the letters onto the video picture, then press DRAW while the box is touching the position.

To change the position of the title
Repeat step 7.

8 Press **✖** with the pen.

Note on an accent mark

An accent mark on the last letter of the line may not be inserted after you have chosen the letters for the whole line on the screen.

Choosing Sample Titles and Illustrations

The title contains sample titles and illustrations. You can choose from 41 different kinds of sample titles and illustrations (see page 37 for details).

- 1 Press **RECALL** with the pen.
- 2 Move the icon to the title or illustration, then press **DRAW** while the icon is touching the title or illustration.
- 3 Move the select box to the position where you want to add the title or illustration onto the video picture, then press **DRAW** while the box is holding the position.

To change the position of the title or illustration

- 4 Press **↔** with the pen.

Drawing a Title

You can choose curved lines, straight lines, or figures to draw a title. Press **RECALL** with the pen. When choosing lines or figures, you can also choose colors. To draw a letter, use curved lines.

To draw a curved line

To draw	Press
a thin curve	↶
a thick curve	↷
an outlined curve	↸
a checkered curve	↹

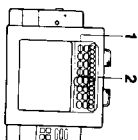
- 2 Press one of the color select keys with the pen to select the color of the curve.

- 3 Draw a title by moving the icon while pressing **DRAW**.

Note on an outlined curve

- An outlined curve is automatically cut when it is too long.
- The colors of the outline are as follows:

Color of curve	Color of outline
Black, transparent	White
Others	Black



To draw	Press
an outlined line	↶
a wooden line	↷

- 2 Press one of the color select keys with the pen to select the color of the line.
- 3 Draw a title by moving the icon while pressing **DRAW**.

Note on an outlined line

The colors of the outline are as follows:

Color of outlined line	Color of outline
Black, transparent	White
Others	Black

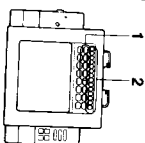
To draw a figure

To use	Press
a square	□
a circle	○
a caption	◎
a wooden board	⊞

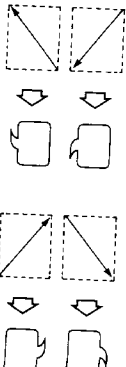
- 2 Press one of the color select keys with the pen to select the color of the figure.

- 3 Draw a line diagonally by moving the icon while pressing **DRAW**.

To draw	Draw
a square, wooden board	a diagonal line
a circle	the diagonal line of a square where a circle is to be inscribed
a caption	the diagonal line of a square where a caption is to be inscribed



Note on drawing a caption
The direction of the caption changes as you change the direction of the diagonal.



Note on an outline of a figure

The colors of the outline are as follows:

Color of figure	Color of outline
Black, transparent	White
Others	Black

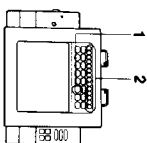
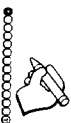
Choosing Colors

When choosing fonts or drawing lines (freeland), you can choose the color of the font or drawing lines by using the color select key.

(F) chooses the color of the font, and (C) chooses the rainbow color (see also page 31 and 36 for details).

To choose color

After pressing the drawing key with the pen, press one of the color select keys with the pen.



Painting a Title

You can paint a title in any color you want using the color select keys.

- 1 Press (F) with the pen.
- 2 Press one of the color select keys with the pen.
- 3 Move the icon to the outlined portion where you want to paint. Then press OPEN while the icon is touching the portion with its tip.

To change the color
Repeat steps 1 to 3.

Setting the Background of the Title

You can choose a background color for the title. You can also set the video picture as the background for the title.

To choose the background color

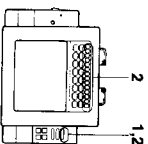
- 1 Press SUPERIMPOSE to turn off the indicator.
- 2 Simultaneously press SUPERIMPOSE and one of the color select keys with the pen to select the background color.

To set the video picture as the background
Choose (T) when choosing the background color.

To remove the video picture from the background
Press SUPERIMPOSE to turn off the indicator.

To change the background color to the video picture

- 1 Press SUPERIMPOSE to turn off the indicator.
- 2 Simultaneously press SUPERIMPOSE and T with the pen.



To get the appropriate background

To be sure to get the background you have set, set SUPERIMPOSE and DRAW STANDBY as follows:

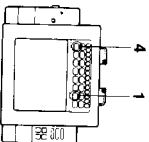
To get	Set
video picture background	SUPERIMPOSE to on and the color to transparent.
light gray background	SUPERIMPOSE to off and the color to transparent.
the color set background	SUPERIMPOSE to off. Or, set SUPERIMPOSE to on and DRAW STANDBY to on (not transparent).

Notes

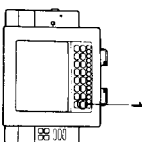
- SUPERIMPOSE comes on and the background color is set to transparent when you turn on the title.
- When the title appears on the screen or disappears from the screen, the background is set to the color of the present screen.
- When you select a different color for both screens, you can appear on or disappear from the screen.

Copying Titles and Illustrations

You can copy titles and illustrations on the same screen or to the other screen.



- Press **COPY** with the pen.
- Draw a line diagonally while pressing DRAW to enclose the title that you want to copy in a saved box.
- Move the select box to the position where you want to copy the title, then press DRAW while the box is holding the position.
 - To copy the title to the other screen
 - Press 1 PAUSE 2.
 - Repeat step 3.
- Repeat step 3.
 - To repeat copying the same title
 - Press **↺** with the pen.



Erasing Titles and Illustrations

You can erase titles and illustrations like using an eraser or erase the whole screen at once.

- Press **ERASE** with the pen.
- Move the icon over what you want to erase while pressing DRAW.
 - To erase a small portion
 - Press **↺** (a thin line) or **↻** (a thick line), then **↵** (transparent color) with the pen.
 - Move the icon over what you want to erase while pressing DRAW.
 - To erase the whole screen
 - Press **CLEAR**.

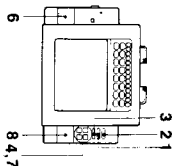
Undoing the Previous Action

When you make a mistake while creating a title, you can undo the mistake. This is only good for the previous action.

To undo the previous action
Press **UNDO** with the pen.



Adding the Title onto the Video Picture



You can add the title onto the video picture after you have created it. When adding the title onto the video picture, you can choose from four different ways to make the title appear and disappear.

- 1 Press 1 PAGE 2 to select the screen that has a title you want to add onto the video picture.
- 2 Press SUPERIMPOSE to turn on the indicator.
- 3 Press DRAW STANDBY to turn on STANDBY (right).
- 4 Press one of the following WIPE PATTERN buttons to select how the title appears or scrolls in.

To make the title	Press
appear instantly	[]
scroll in from the bottom and scroll upwards	[]
scroll in from the top and scroll downwards	[]
appear from the center to outwards	[]

- 5 Locate the start of the scene where you want to add the title, and set the player to playback pause mode and the recorder to recording pause mode.

- 6 Start playback and recording when the tape comes to the scene IN, where you want to make the title appear, then press DRAWWIPE IN.

- 7 Press one of the WIPE PATTERN buttons to select how the title disappears from the screen:

To make the title	Press
disappear instantly	[]
scroll out upwards	[]
scroll out downwards	[]
disappear from the title edge to the center	[]

- 8 Press DRAWWIPE OUT when the playback picture comes to the scene where you want to make the title disappear.

- 9 Stop the player and the recorder when you finish editing the tape.

To repeat scrolling the title when [] or [] is selected
Keep DRAWWIPE IN pressed in step 6.

Using the Rainbow Color

The rainbow color has twenty colors. See "Rainbow Colors" on page 36 for details. You can only use the rainbow color for all the titles on the same screen or on the other screens.

To use the rainbow color
Press [] with the pen when choosing the color.



Each time you press [], the color changes.

To choose the previous color
Simultaneously press [] and either DRAWWIPE IN or DRAWWIPE OUT.

Creating a Title Using the Rainbow Color

Here are some of the effective ways to create titles using the rainbow color.

Choosing Fonts

Refer to "Choosing Fonts" on page 23. You can choose from three types of the rainbow color. Select the type by moving the cursor of three A's on the right side of the menu, then press DRAW while the icon is touching the A.



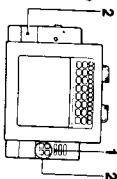
Drawing a Figure

Refer to "To draw a figure" on page 26 and draw concentric squares or circles inward. The rainbow color candidates inside the figure.



Choosing a Wipe Pattern

Drawing a frame
Refer to "Drawing a frame" on page 25 and draw two concentric squares. Use a rainbow color for the outer square and the transparent color for the inner square. The rainbow color circulates inside the frame.



To help you choose a wipe pattern, you can perform each wipe pattern on tiles automatically. The tiles are wiped in and out in all the available ways for both screens.

- 1 Press DRAW STANDBY to turn on STANDBY (right).
- 2 Press all the WIPE PATTERN buttons and DRAWWIPE IN simultaneously.

To stop the tile scroll
Press the pad with the pen.

Drawing a streaming line

Refer to "Drawing a streaming line" on page 24 or "To draw a straight line" on page 25 and draw a line. The rainbow color flows in the direction of the line.



Drawing dots

Refer to "To draw a curved line" on page 24 and draw dots. The dots specify the rainbow color.



Connectors

Video input

Phono jack (1)
Input signal: 1 Vp-p, 75 ohms

S video input

4-pin DIN connector (1)
Luminance signal: 1 Vp-p, 75 ohms
unbalanced, sync negative
Chrominance signal: 0.286 Vp-p, 75 ohms
unbalanced

Video output

Phono jack (1)
Output signal: 1 Vp-p, 75 ohms

S video output

4-pin DIN connector (1)
Luminance signal: 1 Vp-p, 75 ohms
unbalanced, sync negative
Chrominance signal: 0.286 Vp-p, 75 ohms
unbalanced

General

Power requirements

120 V, AC, 60 Hz
Power consumption: 150 W
Operating temperature: 0°C to 40°C (32°F to 104°F)

Operating humidity

20% to 80%

Dimensions

Approx. 380 x 73 x 257 mm (white)
(14 1/4 x 2 7/8 x 10 1/8 inches)

Weight

Approx. 1.7 kg (3 lb 12 oz)

Supplied accessories

Video connecting cable (2)
Dish-shaped remote control (1)
Operating instructions (1)

Design and specifications are subject to change without notice.

Troubleshooting

Refer to the following table if you have problems with your titer. If problems continue, consult your nearest Sony dealer.

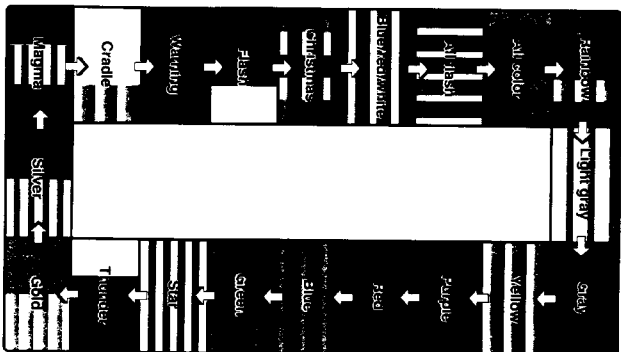
Trouble	Cause/Solution
The power does not turn on.	The power cord is not connected to the AC outlet.
The demagnification picture does not appear and the screen though the power is on.	<ul style="list-style-type: none"> The titer and the video equipment are not connected correctly. Refer to "Connecting Video Equipment" on page 10. The input selector on the recorder is not set correctly. The input selector on the TV (or the monitor) is not set correctly.
The title on the screen is not clear.	When you set the player to play pause mode or special playback mode, the title on the screen may be distorted.
The title on the screen is not visible.	You cannot create a title in the upper and lower margins of the screen. This is not a malfunction.
The video picture is not visible.	<ul style="list-style-type: none"> The background of the title is not set correctly. Refer to "Setting the Background of the Title" on page 27. The titer is not playing the tape. The titer and the video equipment are not connected correctly. Refer to "Connecting Video Equipment" on page 10.
A title cannot be superimposed on the video picture.	The background of the title is not set correctly. Refer to "Setting the Background of the Title" on page 27.
The color of the title does not appear properly.	<ul style="list-style-type: none"> A black-and-white video camera is being used for the player. Do not use a black-and-white video camera. If you are using a TV, the input video picture, the TV has not been tuned in accurately.

Colors, Titles, and Illustrations Used with the Titrer

This section shows what colors you can choose as the rainbow color, which fonts, titles, and illustrations you can choose to create titles and illustrations.

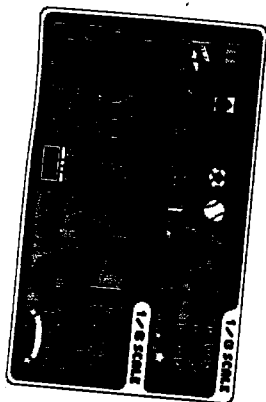
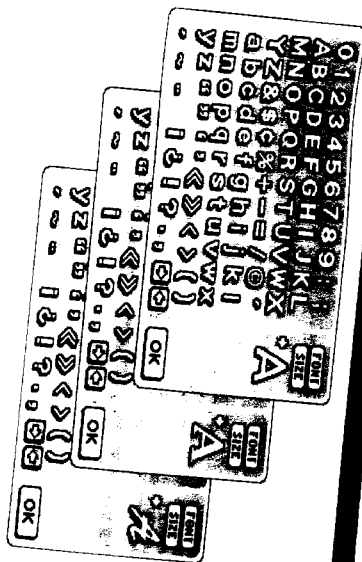
Rainbow Colors

The rainbow color has twenty colors. Each time you press **3**, the rainbow color changes as follows:



To choose the previous color simultaneously, press **3** and **2**. To choose the next color simultaneously, press **3** and **4**. To wipe IN or DISPLAY Wipe OUT.

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