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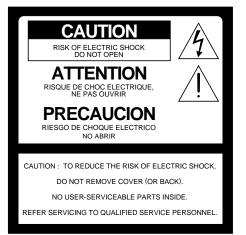
KP-43H120 KP-53HS20 KP-53HS30 KP-61HS20 KP-61HS30



Digital Reality Creation

## WARNING

To prevent fire or shock hazard, do not expose the projection TV 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 (servicing) instructions in the literature accompanying the appliance.

#### CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

#### CAUTION

When using TV games, computers, and similar products with your projection TV, or viewing a TV station whose logo always stays on the screen, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern such as a station logo is left on the screen for long periods of time, especially at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty.

#### **Note on Caption Vision**

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC

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#### Note on convergence adjustment

Before you use your projection TV, make sure to adjust convergence. For details, see "Adjusting the Convergence Automatically – FLASH FOCUS<sup>TM</sup> –" on page 33.

#### Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF, VHF, transmitted by cable companies or satellite for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

#### NOTIFICATION

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 with 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 antennas.
- 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.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This document is for the remote control RM-Y908. MODELS: KP-43HT20, KP-53HS20, KP-53HS30, KP-61HS20, KP-61HS30

Please keep this notice with the instruction manual.

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#### Safety

- Operate the projection TV only on 120 V AC.
- □ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see "Important Safeguards" on page 4.

#### Installing

- □ To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperature below 5°C (41°F).
- □ If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the projection TV.
- □ To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.



As an ENERGY STAR<sup>®</sup> Partner, Sony Corporation has determined that this product meets the ENERGY STAR<sup>®</sup> guidelines for energy efficiency.

ENERGY STAR<sup>®</sup> is a U.S. registered mark.

## TruSurround<sup>™</sup> with SRS (●)<sup>®</sup>

TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol/are registered trademarks

of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and is protected under United States Patent Nos. 4,748,669 and 4, 841, 572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

#### ATTENTION

Pour prévenir les chocs électriques, ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent tre inserées à fond sans en laisser aucune partie à decouvert.

#### **Owner's Record**

The model and serial numbers are located at the rear of the projection TV, below the Sony logo, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No.

Serial No.\_\_\_\_\_

## Important Safeguards

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

#### WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

#### Use

#### **Power Sources**

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or



local power company. For those sets designed to operate from battery power, refer to the operating instructions.

#### **Grounding or Polarization**

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

# For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If



the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

#### Alternate Warning for the set with a threewire grounding type AC plug

This plug will only fit into a groundingtype power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet



installed. Do not defeat the safety purpose of the grounding plug.

#### Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the

possibility of an internal malfunction that could create a fire hazard.

If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.

#### **Object and Liquid Entry**

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.

#### Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



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#### Cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft of cloth. Stubborn stains may be removed with a cloth slightly dampened with



solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.



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#### Installation

#### Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



#### **Accessories**

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of projection TV. An appliance and cart combination should be moved with care. Quick stops, excessive force,

and uneven surfaces may cause the appliance and cart combination to overturn.

#### Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

 Never cover the slots and openings with a cloth or other materials.



- Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.
- Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



#### **Power-Cord Protection**

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



#### Antennas

#### **Outdoor Antenna Grounding**

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

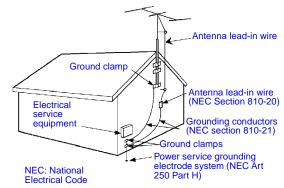
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

#### Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



### Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

#### Service

the set.

#### **Damage Requiring Service**

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
  - If liquid has been spilled into
- If the set has been exposed to rain or water.
- If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a

qualified technician to restore the set to normal operation.

When the set exhibits a distinct change in performance, it indicates a need for service.

#### Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



#### **Replacement Parts**

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

## Safety Check

Upon completion of any service or repairs to the set, ask the service technician concert perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.



#### Be careful when moving the projection TV

When you place the projection TV in position, be careful not to drop it on your foot or fingers.



Watch your footing while installing the projection TV.

#### Carry the projection TV in the specified manner

If you carry the projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be



caused. Be sure to follow the instructions mentioned below.

- Carry the projection TV with the specified number of persons. (see page 10)
- Do not carry the projection TV holding the speaker grill.
- Hold the projection TV tightly when carrying it.

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# Introducing the Sony Projection TVU.com

## Presenting the Sony Projection TV

Thank you for purchasing the Sony Projection TV. This manual is for models KP-43HT20, KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30. Model KP-53HS30 is used for illustration purposes.

#### Features

Some of the features that you will enjoy with your new projection TV include:

- Hi Scan 1080<sup>™</sup>: Enables you to receive the 1080i, 720p, 480p and 480i digital TV formats. By using the VIDEO 5/6 IN jacks, you can connect a DTV (digital television) receiver to view DTV programs.
- DRC<sup>™</sup> Multi-Function: Unlike conventional line doublers, the DRC feature doubles vertical and horizontal lines, resulting in four times the density for quality sources such as DVD, Satellite and Digital camcorder.
- CineMotion<sup>™</sup>: Using the 2-3 Pull-Down technology, the CineMotion feature allows you to obtain a smooth picture movement when playing back movies or other video sources on film.
- Twin View<sup>™</sup>: Using Multi-Image Driver (MID-X), Twin View allows you to watch two programs side by side with the ability to zoom in one picture and listen to selected window. You can watch pictures from two different sources (1080i, 720p, 480p or 480i) simultaneously.
- 16:9 Enhancement: Vertical Compression technology that maximizes picture resolution on "anamorphic" or "enhanced for wide screen" sources, including selected DVDs.
- □ Steady Sound<sup>™</sup>: Equalizes volume levels so there is consistent output between programs and commercials.
- Parental Control: V-Chip technology allows parents to block unsuitable programming for younger viewers.
- Component Video Inputs: Offers the best video quality for DVD (480p, 480i) and Digital Set-top box (1080i, 720p, 480p, 480i) connections.
- S-VIDEO Inputs: Provides a high-quality image for connected equipment.
- **Favorite Channel Preview:** Preview up to eight favorite channels without leaving the current channel.

### Introducing the Sony Projection TV

- Channel Index: Allows you to view and choose from twelve programs.
- □ Flash Focus<sup>™</sup>: Allows you to adjust convergence automatically.

## Using this manual

We recommend that you carefully review the contents of the following four sections in the order provided to ensure that you fully understand the operation of your new projection TV.

1 Installing and Connecting the Projection TV

This section guides you through your initial setup. It shows you how to install your projection TV, to connect your new components and to connect the antenna and cable.

**2** Using the Features

This section shows you how to begin using your new projection TV. It shows you how to use your remote control functions.

**3** Using the menus

This section teaches you how to access on-screen menus and adjust your projection TV settings.

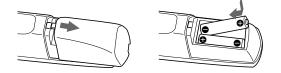
Instructions in this manual are written for the remote control. Similar controls may be found on the projection TV console.

## **Contents**

Your box contains your new projection TV, a remote control and two AA batteries. No peripheral cables are included. If you intend to add additional equipment to your projection TV, please check the hookup instructions for your desired setup before you begin. You may need to purchase cables and/ or splitters to complete the hookup properly.

## Inserting Batteries to the Remote Control

Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the battery compartment.



- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Andle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
- A Your remote control can be programmed to operate most video equipment. (See "Programming the Remote Control" on page 65.)

## **Carrying Your Projection TV**

Carrying the projection TV requires three or more people.

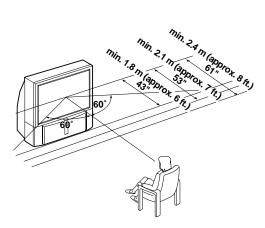
The projection TV has been equipped with casters for easy movement on a hard surface. (for KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30 only)

Please move your projection TV using the casters.

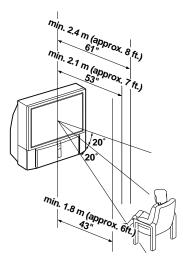
## Installing the Projection TV

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Recommended viewing area (Horizontal)



#### Recommended viewing area (Vertical)



## **Connector Types**

You may find it necessary to use some of the following connector types during set up.

## Coaxial cable



#### S Video cable

High quality video cable for enhanced picture quality

 $\longrightarrow \textcircled{\ } \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \end{array}{\ } \textcircled{\ } \end{array}{\ } \textcircled{\ } \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } \end{array}{\ } \r{\ } \r{$ 

#### Audio/Video cable

 $\longrightarrow \textcircled{Push into connection.}$ 

Video - Yellow Audio (Left) - White Audio (Right) - Red

Some DVD Players are equipped with the following three video connectors.

Y - Green P<sub>B</sub> (C<sub>B</sub>, C<sub>b</sub> or B–Y) - Blue P<sub>R</sub> (C<sub>R</sub>, C<sub>r</sub> or R–Y) - Red

#### **CONTROL S cable**

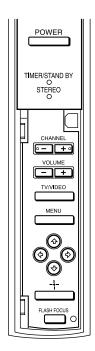
CONTROL S connections are exclusive to Sony products and allow greater control of all Sony equipment.

 $\longrightarrow$   $\bigcirc$  Push into connection.

## **Projection TV Controls and Connectors**

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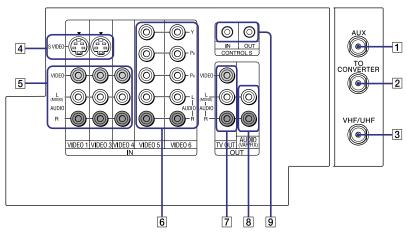
Front Panel Menu Controls The front panel menu controls allow access to the on-screen menus without the use of a remote control. Pressing MENU brings up the on-screen menus. The arrow buttons move the on-screen cursor in the menus and the Select button (-+) selects the menu item.



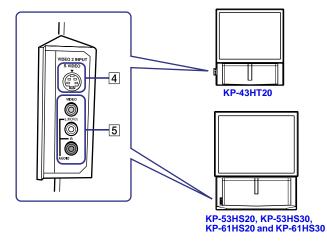
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### Projection TV Rear and Front/Side Panel Connectors

Rear of projection TV



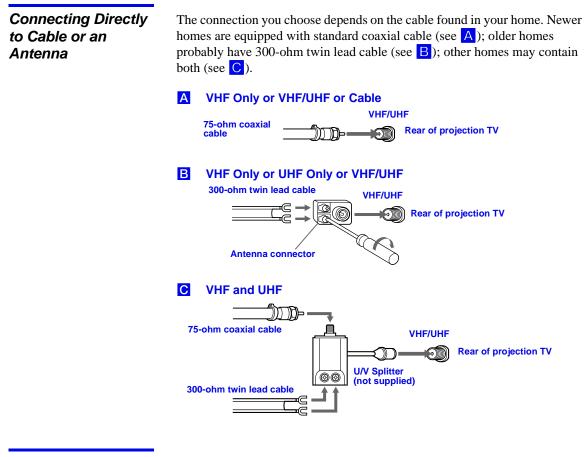
Front or side of projection TV



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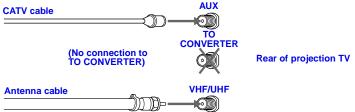
Connection	Description
1 AUX	Allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels easily by pressing ANT on the remote control. Devices connected to the AUX input cannot be viewed in Twin View.
2 TO CONVERTER	This is a VHF/UHF OUT jack that lets you set up your projection TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when switching between scrambled and unscrambled cable channels.
3 VHF/UHF	Connects to your VHF/UHF antenna or cable.
4 S VIDEO (Rear and front/ side)	Connects to the S VIDEO OUT jack of your VCR or other S VIDEO-equipped video component. Provides better picture quality than the VHF/UHF jacks or the Video IN jack.
5 VIDEO (L/R)/AUDIO (Rear and front/ side)	Connects to the audio and video OUT jacks on your VCR or other video component. A fourth video input (VIDEO 2) is located on the side panel (for KP-43HT20) or the front panel (for KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30) of the projection TV.
6 Y/P <sub>B</sub> /P <sub>R</sub> (L/R)/AUDIO	Connects to your DVD player's or Digital Set-top box's component video (Y, PB, PR) and audio (L/R) jacks.
7 TV OUT	Connects to an AV receiver for greater control of all audio and video equipment. (see page 30) For detailed information about connection, refer to the operating manual supplied with the AV receiver.
8 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio inputs of your audio or video component.
9 CONTROL S IN/OUT	To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.
	To control the projection TV with a remote control for another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the projection TV with the CONTROL S cable.

## Basic Connections (Connecting Cable TV or Antenna) Sheet4U.com



#### Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.



Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

To receive channels with an antenna, you need to turn your Cable to OFF (see page 52) and perform the Auto Program function (see page 53).

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#### Cable Box Connections

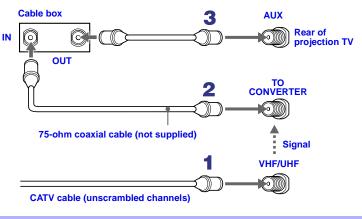
### Cable Box and Cable

This is the preferred basic cable TV hookup to use if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- **•** You want to enjoy the Twin View feature.

With this setup you can:

- □ Use the projection TV remote control to change channels using your cable box when the signal is scrambled.
- Use the projection TV remote control to change channels using your projection TV when the signal is not scrambled. (Your projection TV's tuner provides a better signal than the cable box.)
- Use the Twin View feature. (When all channels are routed through your cable box, only one channel is sent to the projection TV, so you can not use the Twin View or Channel Index features for your cable box.)
- **1** Connect the Cable TV cable to the projection TV's VHF/UHF jack.
- 2 Using a coaxial cable, connect the projection TV's TO CONVERTER jack to the cable box's IN jack. The projection TV's internal converter allows you to switch between unscrambled signals coming straight into the projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- **3** Using a coaxial cable, connect the cable box's OUT jack to the projection TV's AUX jack.



Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the TV (unscrambled).

#### **Cable Box Only**

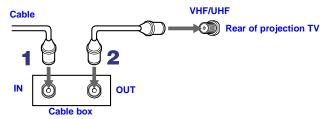
Use this hookup if:

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- You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- You do not intend to hook up any other audio or video equipment to your projection TV.

When all channels are routed through your cable box, only one unscrambled channel is sent to the projection TV, so you cannot use the Twin View feature. If some channels are scrambled, but others are not, consider using the hookup on page 17 instead.

- 1 Connect the coaxial connector from your cable service to the cable box's IN jack.
- **2** Using a coaxial cable, connect the cable box's OUT jack to the TV's VHF/UHF jack.



Also, set Cable to ON in the Channel menu. (see page 52)

- If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your projection TV to channel 3 or 4. (see page 53)
- A Your Sony remote control can be programmed to operate your cable box. (see "Programming the Remote Control" on page 65)
- To change channels using the cable box, set your projection TV to channel 3 or 4 depending on the cable box channel output.

Setting the Channel Fix feature in the Channel menu (see "Using the Channel Menu" on page 52) ensures that you do not accidentally switch the channels using your projection TV.

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## Connecting a VCR and Cable

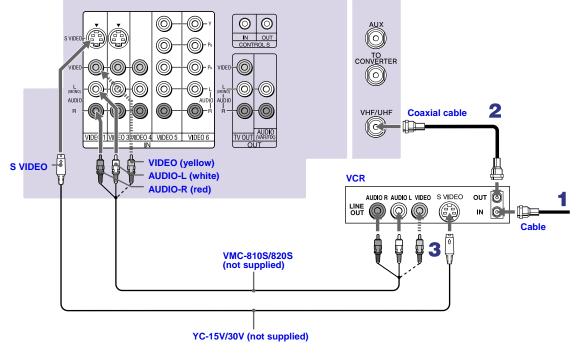
Use this hookup if:

• You have cable TV that does not require a cable box.

### Disconnect all power sources before making any connections.

- 1 Connect the cable TV cable to the VCR's IN jack.
- **2** Using a coaxial cable, connect the VCR's OUT jack to the projection TV's VHF/UHF jack.
- **3** Using AUDIO and S VIDEO cables, connect the VCR's Audio and Video OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.





A If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

## Connecting a VCR and Cable Box

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Use this hookup if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- □ You want to enjoy the Twin View feature.

With this setup you can:

- Use the projection TV remote control to change channels using your cable box when the signal is scrambled.
- Use the projection TV remote control to change channels using your projection TV when the signal is not scrambled. Your projection TV's tuner provides a better signal than the cable box.
- Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the projection TV, so you cannot use the Twin View feature.)

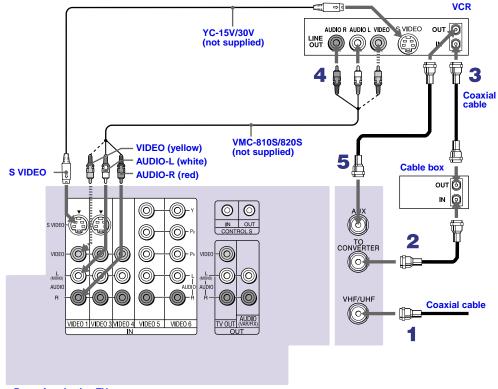
#### Disconnect all power sources before making any connections.

- 1 Connect the Cable TV cable to the projection TV's VHF/UHF jack.
- 2 Using a coaxial cable, connect the TV's TO CONVERTER jack to the cable box's IN jack. The projection TV's internal converter allows you to switch between unscrambled signals coming straight into the projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- **3** Using a coaxial cable, connect the cable box's OUT jack to the VCR's IN jack.
- 4 Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.
- 5 Using a coaxial cable, connect the VCR's OUT jack to the projection TV's AUX jack.
- To view scrambled channels, set your projection TV to AUX 3 or 4 (depending on your cable box output). Change channels using your cable box.

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### Installing and Connecting the Projection TV

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**Rear of projection TV** 

- A If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- You will not be able to change channels on the VCR. Set your projection TV and VCR to channel 3 or 4, depending on your cable box channel output.
- Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the projection TV (unscrambled).

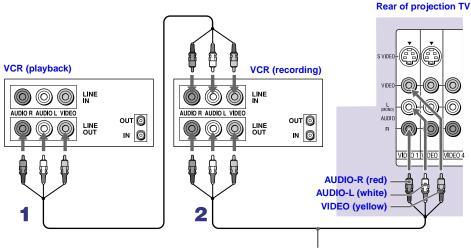
## Connecting Two VCRs for Tape Editing

#### www.DataSheet4U.com

Connecting two VCRs together, then into the projection TV, allows you to switch between the two to be sure that what you are playing on one is recording on the other.

Disconnect all power sources before making any connections.

- 1 Using AUDIO and VIDEO cables, connect the playback VCR's Audio and Video OUT jacks to the recording VCR's Audio and Video IN jacks.
- **2** Using AUDIO and VIDEO cables, connect the recording VCR's AUDIO and Video OUT jacks to the projection TV's AUDIO and VIDEO IN jacks.



VMC-810S/820S (not supplied)

- To perform tape editing, set the projection TV to the video input intended for playback by pressing TV/VIDEO on the remote control.
- A You may need to change the video input on your VCR. Consult your VCR's operating manual for instructions.
- If your VCRs have an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable.

Using an S VIDEO cable, connect the playback VCR's S VIDEO OUT jack to the recording VCR's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.

A You cannot record signals from equipment connected to the Y, P<sub>B</sub>, P<sub>R</sub> input.

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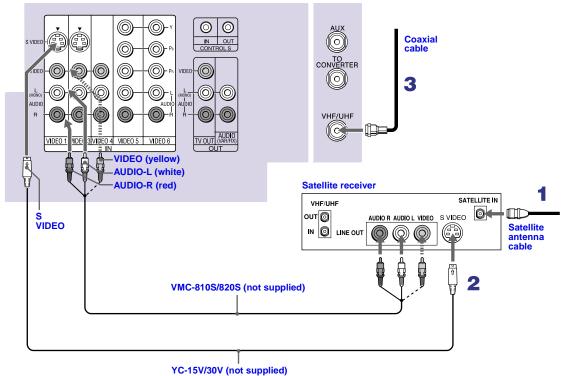
## **Connecting a Satellite Receiver**

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## Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.
- **3** Connect a coaxial cable from your cable or antenna to the projection TV's VHF/UHF jack.
- A If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

#### Rear of projection TV

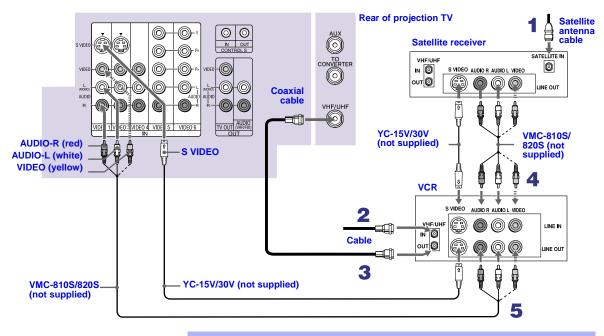


## Connecting a Satellite Receiver with a VCR

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#### Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- **2** Connect the CATV cable to the VCR's VHF/UHF IN jack.
- **3** Using a coaxial cable, connect the VCR's OUT jack to the projection TV's VHF/UHF jack.
- 4 Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the VCR's AUDIO and S VIDEO IN jacks.
- **5** Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.



- Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
- A Use TV/VIDEO to select
  - VIDEO 1 to watch satellite TV or the VCR. (Your VCR must be turned on)
  - VHF/UHF to watch cable TV.
- A If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

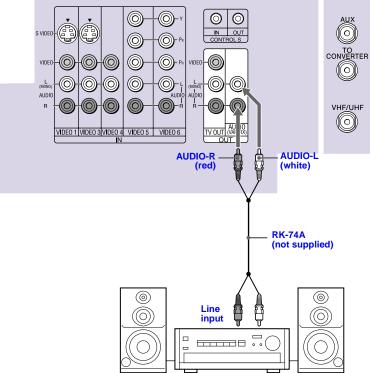
## **Connecting an Audio Receiver**

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### Disconnect all power sources before making any connections.

Using audio cables, connect the projection TV's AUDIO OUT (VAR/FIX) jacks to the audio receiver's audio LINE IN jacks.





# Connecting a DVD Player with Component Video Connectors

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This is the preferred hookup to use if:

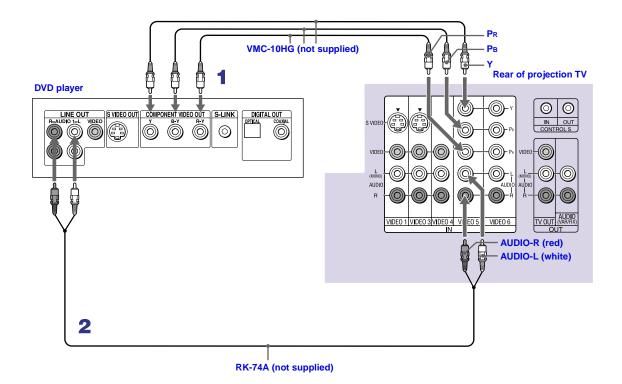
□ Your DVD player has component (Y, PB, PR) jacks.

Disconnect all power sources before making any connections.

1 Using three separate component video cables, connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks on the projection TV. Use the VIDEO IN 5 or 6 connections.

The Y, P<sub>B</sub> and P<sub>R</sub> jacks on your DVD player are sometimes labeled Y, C<sub>B</sub> and C<sub>R</sub>, or Y, B-Y and R-Y. If so, connect the cables to like colors.

**2** Using an audio cable, connect the DVD player's Audio OUT jacks to the projection TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (VIDEO IN 5 or 6).



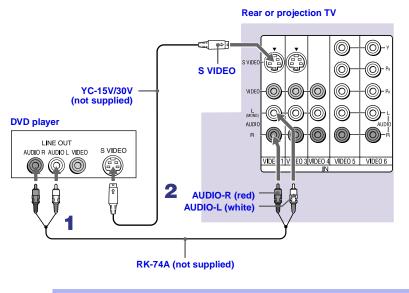
## Connecting a DVD Player with A/V Connectors www.DataSheet4U.com

Use this hookup if:

- □ Your DVD player does not have component (Y, PB, PR) jacks.
- A If your DVD player has video component output connectors: for best picture quality use the connection described on page 26.

### Disconnect all power sources before making any connections.

- **1** Using audio cables, connect the DVD player's Audio OUT jacks to the projection TV's AUDIO IN jacks.
- **2** Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the projection TV's S VIDEO jack.



⇐ Use TV/VIDEO on the remote control to switch between the VCR, DVD player and cable TV inputs.

## **Connecting a Digital TV Receiver**

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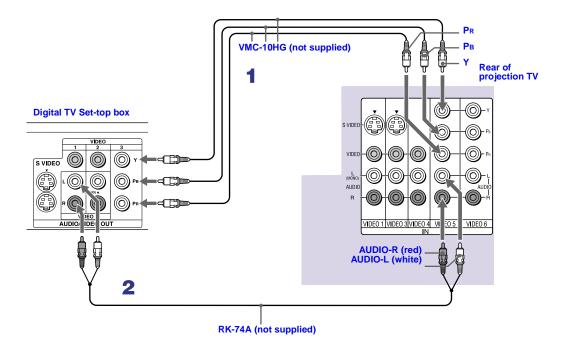
Be sure to read the Set-top box manual.

#### Disconnect all power sources before making any connections.

- 1 Using three separate component video cables, connect the Digital TV Set-top box's Y, PB and PR jacks to the projection TV.
  - The Y, PB and PR jacks do not provide audio, so audio cables must be connected to provide sound.

Component input (Y, P<sub>B</sub> and P<sub>R</sub>) is recommended for optimum picture quality. Component input is necessary to view 480p, 720p and 1080i formats. You may also use component video or S VIDEO connections.

**2** Using an audio cable, connect the Digital TV Set-top box's Audio OUT jacks to the projection TV's AUDIO IN jacks.



- A You cannot record the signal from any equipment connected into the Y, PB and PR connectors.
- This projection TV is not compatible with digital TV receivers configured with RGB or VGA output connectors.

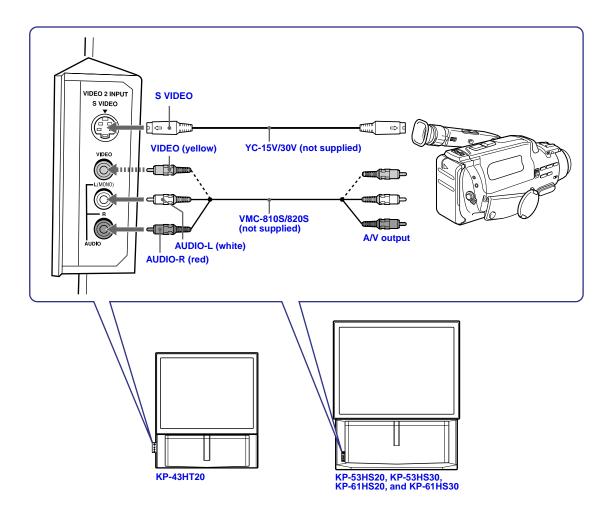
## **Connecting a Camcorder**

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For easy connection of the camcorder, the projection TV has front Audio and Video inputs (shown below). However, if you prefer, you can also connect the camcorder to the projection TV's rear Audio and Video IN jacks.

Using AUDIO and S VIDEO cables, connect the camcorder's Audio and S VIDEO OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.

- If you have a mono camcorder, connect its left audio output to the projection TV's AUDIO L jack.
- If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



## **Connecting an AV Receiver**

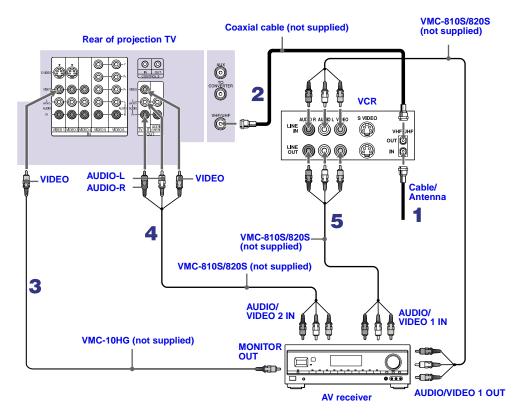
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For greater control of all audio and video equipment, connect an AV receiver.

Change "Video Label" for the VIDEO 1 input to "Receiver." (see page 64)

Disconnect all power sources before making any connections.

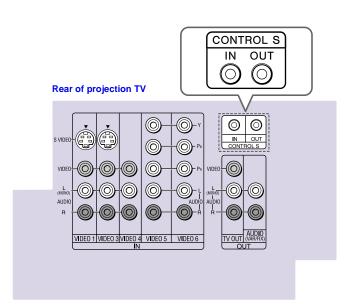
- 1 Connect the coaxial cable from the incoming cable connection or antenna to IN on the VCR.
- **2** Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the projection TV.
- **3** Using a VIDEO cable, connect VIDEO of VIDEO 1 IN on the projection TV to MONITOR OUT on the AV receiver.
- **4** Using an AUDIO/VIDEO cable, connect TV OUT on the projection TV to AUDIO/VIDEO 2 IN on the AV receiver.
- **5** Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.
- 6 Select the Setup menu and set "Video Label" to "Receiver" to fix your TV's input to AV receiver. (see "Video Label" on page 64)



## Using the CONTROL S Feature

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CONTROL S allows you to control your projection TV system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your projection TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.



## Setting Up the Projection TV Automatically

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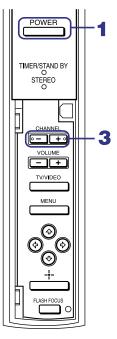
After you finish connecting your projection TV, you can run Auto Setup to set up your channels. The Auto Setup screen appears when you turn your projection TV on for the first time after installing it. If you do not want to set up the channels at this time, you can do it later by using the Auto Program feature in the Channel menu. (see page 53)

The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

### **Using Auto Setup**

- **1** Press POWER on the front panel of your projection TV or on the remote control to turn on the projection TV.
- 2 Press the TV (FUNCTION) button on your remote control. Red light will briefly appear.
- Press CH+ on your projection TV to run Auto Setup, or press CH- to exit. If you use the channel buttons on your remote control, be sure to use the main set of buttons (<sup>CH</sup>/<sub>(+)</sub>).

Projection TV front panel



A You can run Auto Program by selecting it in the Channel menu, as described on page 53.

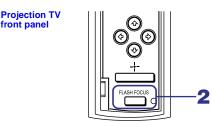
## Adjusting the Convergence Automatically – FLASH FOCUS —

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence.

The FLASH FOCUS feature allows you to adjust the convergence automatically.

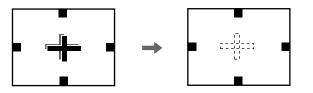
A It is recommended to perform FLASH FOCUS about 30 minutes after the projection TV is first turned on.



- Receive a TV or cable TV program.
- 2 Press FLASH FOCUS.

front panel

The cross pattern appears and FLASH FOCUS begins to work. The adjustment is completed when the cross pattern becomes white and will come back to the program you are watching.



To obtain an optimum convergence for Digital TV programs The optimum convergence alignment varies with digital TV formats. Whenever you find that the picture blurs, press FLASH FOCUS.

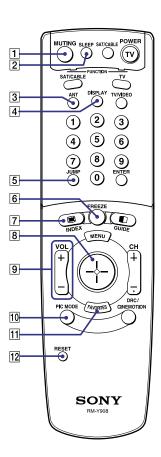
- A You cannot perform any other functions until FLASH FOCUS has completed its cycle.
- A If you perform any other operation while FLASH FOCUS is in progress, FLASH FOCUS operation is canceled.
- A Unshielded speakers or other metallic objects can cause picture distortion if placed close to the projection TV.

## Using the Remote Control

The following table describes the buttons on the remote control that are for more advanced functions.

Alin Power button must be turned ON to activate the remote control.

### **Button Descriptions**



Outside Panel	
Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
2 SLEEP	Press repeatedly until the projection TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until SLEEP OFF appears. While Sleep feature is set, press once to view remaining time.
3 ANT	Changes between the VHF/UHF input to the AUX input.
4 DISPLAY	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 62 for details on setting the time.
5 JUMP	Press to jump back and forth between two channels. The projection TV alternates between the current channel and the last channel that was selected.
6 FREEZE	Freezes the window picture. Press again to restore the picture.
7 🌐 INDEX	Press to enter the Channel Index mode. You can view and select from twelve channels without leaving the current one.
8	Joystick allows for movement of the on-screen cursor. Pressing down on the center of the joystick selects the item.
9 VOL +/-	Adjusts the volume.
10 PIC MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Movie and Pro. Also available in the Video menu. For details, see "Selecting Video Options" on page 48.
11 FAVORITES	Displays the Favorite Channels list. For details, see "Using Favorite Channels" on page 40.
12 RESET	Press when in a menu to reset the settings to the factory defaults.

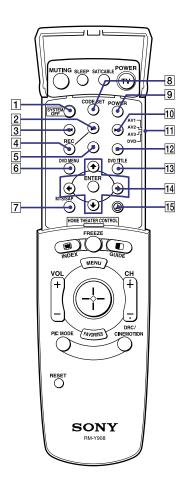
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Using the Features

	Button	Description www.DataSheet4U.com
MUTING SLEEP SATICABLE POWER SATICABLE POWER TV 13 SATICABLE TV 14 ANT DISPLAY TV/NDED 15	13 POWER buttons (GREEN)	Turn on and off the projection TV and other audio/video equipment you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 65.
	14 FUNCTION buttons	Select the equipment (TV, SAT/CABLE) that you want to operate. The indicator lights up momentarily when pushed to show which device the remote control is operating.
	15 TV/VIDEO	Cycles through the video equipment connected to your projection TV's video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.
FREEZE	16 0 – 9 and ENTER	Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER to select immediately.
	17	Turns on/off Twin View. For details, see "Using Twin View <sup>TM</sup> " on page 41.
	GUIDE	Displays the program guide of your satellite.
	18 MENU	Press to display the projection TV on-screen menu. Press again to exit from the menus.
	19 CH +/-	Scan through channels.
	20 DRC/ CINEMOTION	Press repeatedly to step through the available high- resolution picture modes: Interlaced, Progressive and CineMotion. For details, see "Using the Video Menu" on page 48.
SONY RM4-Y908		

To scan rapidly through the channels, press and hold down CH+ or CH–.

#### Using the Features

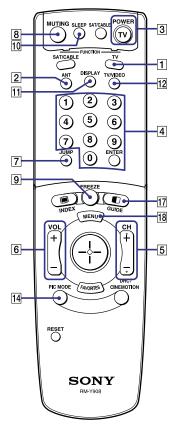


Ins	side Panel	www.DataSheet4U.com
	Button	Description
1	SYSTEM OFF	Press to turn off the projection TV and all equipment connected with S-Link.
2		Play
3	<b>44</b>	Rewind
4	REC	Record
5		Stop
6	DVD MENU	Displays the DVD menu.
7	MTS/SAP	Press to scroll through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP, and Mono.
8	CODE SET	Used for programming the remote control to operate non- Sony video equipment. For details, see "Programming the Remote Control" on page 65.
9	POWER	Press to turn on the DVD/VCR player you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 65.
10	••	Fast-forward
11		Use to switch control for connected video equipment. You can program one video source for each switch position. For details, see "Programming the Remote Control" on page 65.
12	11	Pause (Press again to resume normal playback)
13	DVD TITLE	Displays the DVD title.
14	<b>↑</b> , <b>↓</b> , <b>←</b> , <b>→</b> , and ENTER	Use to operate the DVD menu.
15	٩	Press to select an audio option: Steady Sound ON or OFF.

## Watching the TV

Many TV features can be accessed directly through the remote control. The following will explain the function of some buttons found on your remote control.

### Buttons for Projection TV Operations



#### **1 TV (FUNCTION)**

Activates the remote control for use with the projection TV.

#### 2 ANT— (AUX input)

Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable and Antenna" on page 16 or "Cable Box Connections" on page 17)

#### **3 TV (POWER)**

Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO or CH +/ – until a channel number appears.

#### 4 0-9 and ENTER

Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.

### 5 CH +/-

Press to scan through the channels (+ up or - down).

#### 6 VOL +/-

Press to adjust the volume (+ up or – down).

#### 7 JUMP

Press to alternate or jump back and forth between two channels. The projection TV will jump between the current channel and the last channel selected.

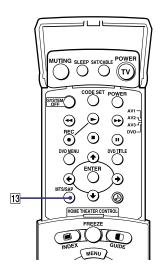
#### 8 MUTING

Press to mute the sound. "MUTING" will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.

#### 9 FREEZE — (yellow labeled button)

This is useful when you need to copy down information that appears on the TV's screen. (see "Using the Freeze Function" on page 44)

#### **Using the Features**



#### 10 SLEEP

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Press repeatedly until the projection TV displays the approximate time in minutes (15, 30, 45, 60, or 90) that you want the projection TV to remain on before shutting off automatically.

Cancel by pressing SLEEP until "SLEEP OFF" appears.

#### **11 DISPLAY**

Press to display the channel number, current time and channel label (if set).

To turn the display off, press DISPLAY again.

#### **12 TV/VIDEO**

Press repeatedly to scroll through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.

If you select Skip as a Video Label in the Setup menu, your projection TV will skip the video input you selected. (see "Video Label" on page 64)

#### 13 MTS/SAP

Press to scroll through the Multi-channel TV Sound (MTS) options. (see "MTS" on page 50)

#### 14 PIC MODE

Press PIC MODE repeatedly to directly choose one of five different video modes that best suits the program you are watching.

Vivid: Select for enhanced picture contrast and sharpness.

Standard: Select to display a standard picture for normal viewing environments.

Movie: Select to display a finely detailed picture for low light environments.

Pro (Professional): Select to display a picture with minimum enhancements.

When you select each mode, you can also adjust the picture quality (such as Brightness, Color, etc.) to suit your taste. For details, see "Mode" on page 48.

## Watching the Digital TV

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When you have connected the DTV receiver, you can enjoy digital TV programs. This projection TV is capable of receiving the 1080i, 720p, 480p and 480i digital TV formats.

This projection TV is not capable of displaying a native 720p format signal. When the 720p format signal is received, it is converted into a 480p format signal.

#### To view a digital TV program

- 1 Connect the DTV receiver to VIDEO 5 or 6 IN on the projection TV. (for details, see page 28)
- **2** Press TV/VIDEO to select VIDEO 5 or 6.
- **3** Select a digital channel on the DTV receiver. For details, see the Operating Manual of the DTV receiver.
- 4 Adjust the volume on this projection TV as necessary.
- The optimum convergence alignment varies with digital TV formats. Whenever you find that the picture blurs, press FLASH FOCUS. (for details, see page 33)

## **Using Favorite Channels**

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The Favorite Channel feature lets you select programs from a list of favorite channels that you preset.

To display a list of your favorite channels:

Your Favorite Channel options can be set automatically or manually. The factory setting for Favorite Channel is Auto.
 When Favorite Channel is set to Auto, the last eight channels selected with 0-9 buttons will be set as Favorite Channel options. If you want to input your own selections as Favorite Channel settings, see "Favorite Channel" on page 52.

**1** Press FAVORITES.

The Favorite Channel options appear.



2 Move the joystick up or down to highlight the channel you want to watch. The program on that channel appears in the preview window. Press ↔ to select.

### Using Twin View<sup>™</sup>

**Displaying Twin** 

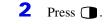
**Pictures** 

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Twin View enables you to watch two programs at the same time. You can also change the size of both the left and right pictures.

#### To display twin pictures

**1** Make sure your projection TV is tuned to a working channel.







To cancel twin pictures□Press **①** again (or press **④**).

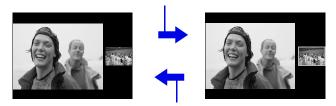
#### Activating the Picture

Although two pictures appear on the screen at the same time, only one picture is active. Change the picture size by using the joystick. For an active picture, you can:

- Change channels.
- Adjust the volume.
- □ Switch the input sources from VHF/UHF to cable by pressing ANT or TV/VIDEO to switch the video input.
- Change the picture size by pressing the joystick up or down.

## To activate the right picture

□ Move the joystick to the right.



To activate the left pictureMove the joystick to the left.

(Continued) **41** 

#### Using the Features

- When you adjust the twin screen sizes, the projection TV memorizes the change. The next time you use the Twin View feature with 480i or 480p format input source, the memorized sizes appear.
- When viewing an enhanced 16:9 picture, the aspect ratio changes to 4:3 in Twin View. The picture will be reformatted to that aspect ratio.
- A If viewing a 720p or 1080i format input source, the aspect ratio will maintain the original 16:9 aspect ratio.

A Hookups that affect your ability to use Twin View:

- If you are viewing all channels through the cable box, the Twin View feature will not work. The cable box only unscrambles one signal at a time, so the right picture will be the same as the left picture.
- You can watch a scrambled cable channel and another video source. Be sure your DVD player, VCR or satellite receiver are connected to one of the VIDEO IN 1-6 and AUX inputs on the rear of the projection TV. Pictures from equipment connected to VIDEO 5, 6 and AUX will only appear in the left picture, not in the right.

The active picture is highlighted in cyan.

#### **Using the Features**

#### Changing the Picture Size

The zoom feature lets you change the size of the left and right pictures.

#### To enlarge the left picture (reduce the right)

- 1 Move the joystick left to activate the left picture (if not already activated).
- 2 Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.

sizes appear.





When you adjust the twin screen sizes, the projection TV memorizes the change. The next time you use the Twin View function, the memorized

#### To enlarge the right picture (reduce the left)

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- 1 Move the joystick right to activate the right picture (if not already activated).
- 2 Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.



## **Using the Freeze Function**

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The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

#### To use the Freeze function

- 1 When the program information you want to capture is displayed, press FREEZE.
- **2** The projection TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



**3** To cancel and return to normal viewing, press FREEZE.

A Freeze feature is not available if you are already in Twin View™ mode.

## **Using Channel Index**

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Channel Index allows you to display multiple channels and select one directly.

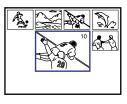
The channels used for Channel Index will come directly from the projection TV's list of receivable channels (those set during "Auto Program" on page 53)

Channel Index will not function when Parental Lock is activated. (See "Using the Parent Menu" on page 54.)

#### To use the Channel Index function

1 Press 🎟.

The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, around the center picture. These small pictures are updated in intervals of one second. The channel number and channel caption (if set) on the second and later appearances will dim.



A cyan-colored frame will appear to indicate current channel selection.

2 Move the joystick in any direction to move the cyan frame to the channel that you wish to view, and press (+).



The selected channel will zoom in and move to the center, and the sound of that channel will be heard.



#### Using the Features

For the center picture you can:

- www.DataSheet4U.com
- Change the channel by pressing 0-9 and ENTER.
- Switch the input sources from VHF/UHF to cable by pressing ANT or to the video input by pressing TV/VIDEO, without changing the surrounding channels.
- Sound will only be heard from the center picture.
- If one of the pictures received through Channel Index is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "Channel Skip/Add" on page 53)
- A If you leave the Channel Index screen displayed for an hour without any additional operation, Channel Index is canceled and the normal picture reappears.

**3** If you wish to view another channel, repeat step 2.

To view another twelve channels, press CH+.

To view the previous twelve, press CH-.

To view the normal picture of the selected channel, proceed to step 4.

#### 4 Press 🕀.

The center picture will be enlarged for normal viewing.



#### **To cancel Channel Index**

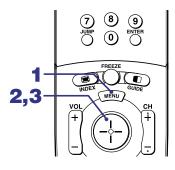
□ Press again to resume normal viewing.

Page

54

## **Using the Menus**

## **Overview**



#### Opening and choosing a menu:

- **1** Press MENU to display the menu screen.
- **2** Move the joystick to the desired menu icon and press  $\bigoplus$  to select it.



- Use the joystick to scroll through the features.
- 4 See the specific menu page for instructions on moving through the menu.

The menu gives you access to the following features:

## Menu Icon Description



Allows you to make adjustments to your picture settings. 48 It also allows you to customize the Picture Mode based on the type of program you are viewing.



Offers enhanced audio options such as listening to second 50 audio programming (SAP), or customizing the Effect of the sound on your projection TV.



Press MENU again.

#### To end one menu session and move to another:

Press the joystick  $\blacklozenge$  to return to the menu icons. Move the joystick to choose the next menu icon and press (+) to select it.



Allows you to set up a Favorite Channel list, run the Auto 52 Program function, and more.



Lets you control the viewing of programs based on their ratings.



Lets you set the clock on your projection TV and allows 62 you to program your projection TV for scheduled viewing using the Timers.



Provides several options for setting up your channels, 63 labeling your Video inputs, and selecting the language of the on-screen menus.



#### To select the Video Menu

- 1 Press MENU.
- **2** Move the joystick to the Video icon  $\stackrel{\text{Video}}{\blacksquare}$  and press  $\bigcirc$ .
- **3** Use the joystick to scroll through the features.
- **4** Press 💮 to select a feature. That feature's adjustment appears.
- **5** Use the joystick to make the desired adjustments.
- Press 🕀 to select/set.
- 7 Press MENU to exit the menu screen.

#### To restore the factory default settings for Picture, Brightness, Color, Hue, Sharpness and Color Temp

Press RESET on the remote control when in the Video menu. 

#### Selecting Video Options

Ϋ To quickly and easily change from one Video Mode to another, use the PIC MODE on the remote control.

The Video menu includes the following options.

Option	Description	
Mode	Vivid	Select for enhanced picture contrast and
Customized		sharpness.
picture	Standard	Recommended for Normal viewing conditions.
viewing	Movie	Select for soft, film like, picture.
	Pro	Select for professional monitor like appearance.
		alter the Video menu settings (Picture, Brightness, :.) for each Mode.
Picture	5	ease picture contrast and deepen the color or decrease st and soften the color.
Brightness	Adjust to brig	hten or darken the picture.
Color	Adjust to incre	ease or decrease color intensity.
Hue	Adjust to incre	ease or decrease the green tones.
Sharpness	Adjust to shar	pen or soften the picture.
Color Temp	Choose from t	hree color temperatures:
White	Cool	Select to give the white colors a blue tint.
intensity adjustment	Neutral	Select to give the white colors a neutral tint.
шунынын	Warm	Select to give the white colors a red tint (NTSC-Standard).

Video	Audio	Channel	Parent	Timer	Setu	0
	О	Ch	R	٩	æ	Š
Colĭor Hue Shari	re itness pness		itra <b>l</b> ressiv			
Move:	1	- 50	ect: ©		nd: @	20

Option	Description	www.DataSheet4U.com
DRC Mode Digital Reality	sources (i.e., D	resolution picture with 4x density, for high quality VD player, Satellite receiver). erlaced, Progressive and CineMotion.
Creation	Interlaced	Recommended for moving pictures.
	Progressive	Recommended for still images and text.
	CineMotion	Recommended for 24 frame-per-second films.

End: 💷

JA

Balance Steady Sound:OFF Effect:OFF MTS:Stereo Speaker:ON Audio Out:Fixed

Move: ↓→← Select:®a

Treble Bass



#### To select the Audio Menu

- 1 Press MENU.
- 2 Move the joystick to the Audio icon  $\frac{\text{Audio}}{\text{IR}}$  and press  $\bigcirc$ .
- **3** Use the joystick to scroll through the options.
- **4** Press  $\bigoplus$  to select an option. That option's settings appear.
- **5** Use the joystick to scroll through the settings.
- Press 🕑 to select the desired setting.
- 7 Press MENU to exit the menu screen.

#### To restore the factory default settings for Treble, Bass and Balance

Press RESET on the remote control when in the Audio menu. 

#### Selecting Audio Options

The Audio menu includes the following options:

Option	<b>Description</b>	
Treble	Adjust to increa	ase or decrease higher-pitched sounds.
Bass	Adjust to increa	ase or decrease lower-pitched sounds.
Balance	Adjust to emph	asize left or right speaker balance.
Steady Sound	ON	Select to stabilize the volume.
	OFF	Select to turn off Steady Sound.
Effect	TruSurround	Select for surround sound (for stereo programs only).
	Simulated	Adds a surround-like effect to mono programs.
	OFF	Normal stereo or mono reception.
MTS Enjoy stereo,	Stereo	Select for stereo reception when viewing a program broadcast in stereo.
bilingual and mono programs	Auto-SAP	Select to automatically switch the projection TV to second audio programs when a signal is received. (If no SAP signal is present, the projection TV remains in Stereo mode.)
	Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)

Option	Description	www.DataSheet4U.com
Speaker	ON	Select to turn on the projection TV speakers.
	OFF	Select to turn off the projection TV speakers and listen to the projection TV's sound only through your external audio system speakers.
Audio Out Easy control of volume adjustments	Variable	The projection TV's speakers are turned off, but the volume output from your audio system can still be controlled by the projection TV's remote control.
	Fixed	The projection TV's speakers are turned off and the volume, bass and treble output of the projection TV is fixed. Use your audio receiver's volume control to adjust the volume through your audio system.

Channel Using the C	hannel Men	u	www.DataSheet4U.com
	To select the Ch	annel Menu	
	1 Press MENU		[]
	icon 📑 and		annel Video Audio Channel Parent Timer Setup Timer Setup Eavorite Channel:Auto Cable:ON
	<b>3</b> Use the joys through the t		Channel fix:OFF Auto Program Channel Skip/Add
		select a feature	Channel Label
	5 Use the joys through the		
	<b>6</b> Press 🕀 to	select the desir	red option.
	7 Press MENU	to exit the me	nu screen.
Selecting Channel Options	The Channel mer	nu includes the	following options:
Options	Option	Description	
	Favorite Channel	Auto	Select if you want Favorite Channel options to be set automatically to the last eight channels selected with the 0-9 buttons.
		Manual	Select if you want to input your own selections as Favorite Channel options.
			Press ( to select a favorite channel number.
			<b>2</b> Use the joystick to scroll through the channels until you find the channel you want to add to your favorites.
			<b>3</b> Press $\textcircled{+}$ to select it.

ON

OFF

setting.

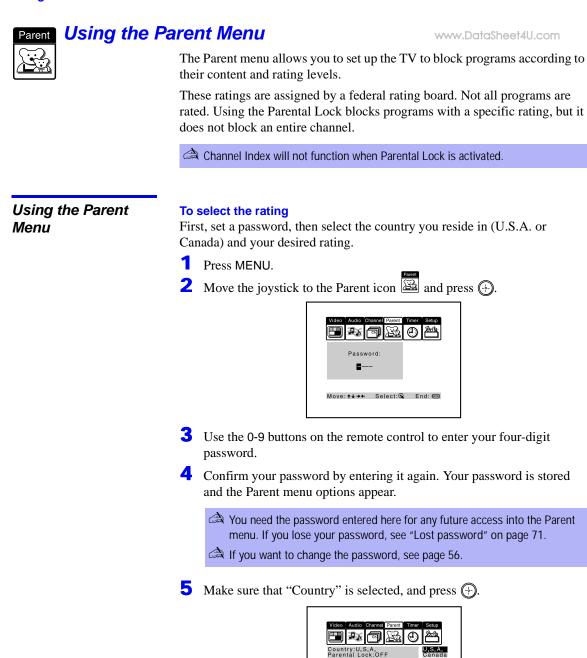
Select if you are receiving cable channels with a

Select if you are using an antenna. A You should run Auto Program after changing the Cable

CATV cable.

Cable

Option	Description	www.DataSheet4U.com
Channel Fix Useful when you have a cable box or satellite receiver connected	2-6	"Fix" your projection TV's channel setting to 3 or 4 and use the cable box, VCR or satellite receiver to change channels. Select one of these settings if you have connected the device to the VHF/UHF jack.
	AUX 2-6	Same as 2-6, except you select one of these settings if you have connected the device to the AUX jack. (see page 15)
	VIDEO 1	Use when connecting an AV receiver to control external video sources. TV output should be connected through the AV receiver.
Auto Program	Automatically p channels.	programs the projection TV for all receivable
Channel	Removes and a	dds viewable channels.
Skip/Add	5	ystick to scroll through the channels until you annel you want to skip/add.
	2 Press	to select it.
	<b>3</b> Press the j "Skip."	oystick up or down to toggle between "Add" and
	4 Press 🕀	to select.
Channel Label	Label up to 20	channels with their station call letters.



Move:**↑↓→←** Select:%4 End:

6 Move the joystick up or down to select U.S.A. or Canada according to the country you reside in, and press (+).



7 Move the joystick down to select "Parental Lock", and press 🕀.



8 Move the joystick up or down to select a desired rating, and press 🕀.

If you select Child, Youth, Young Adult or Custom, the Parental Control is activated automatically.



If you want to select the ratings from Custom, see "Using Custom Rating Options" on page 57.

**9** Press MENU to exit the menu screen.

t familiar	Option	Description	
ll system,	Parental Lock <i>Turn ratings on/</i>	OFF	Parental lock is off. No programs are blocked from viewing.
et Child, Adult to rating more	off and select a rating system	Child	Maximum ratings permitted are: US: TV-Y, TV-G, G Canada: TV-Y, C, G
s, select		Youth	Maximum ratings permitted are: US: TV-PG, PG Canada: TV-PG, PG, 8 ans+
		Young Adult	Maximum ratings permitted are: US: TV-14, PG-13 Canada: TV-14, 14+, 13 ans+
ons of d Young ee		Custom	<ul> <li>Select to set ratings manually.</li> <li>US: See page 60 for details.</li> <li>Canada: See page 61 for details.</li> </ul>
1.	Change Password	For changing y	our password. (see below)

To deactivate the Parental Control feature

Set Parental Lock to OFF when in the Parent menu.

#### To change the password

- Select Change Password option when in the Parent menu using the joystick, and press (-).
- **2** Enter a new four-digit password using the 0-9 buttons.
- **3** Confirm the new password by entering it again.
- **4** Press MENU to exit the menu screen.

#### Viewing Blocked Programs

You can view a blocked program by entering the password.

- **1** Press ENTER when tuned to a blocked program.
- **2** Enter your password using the 0-9 buttons.

Parental Control will be canceled temporarily until you turn your projection TV off.

If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more restrictive ratings, select Custom.

For descriptions of Child, Youth, and Young Adult ratings, see pages 60 and 61.

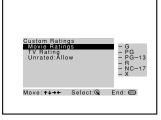
#### The Parent menu includes the following options, www.DataSheet4U.com

#### Using Custom Rating Options

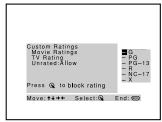
www.DataSheet4U.com

If you want to select the ratings to be blocked from Custom, follow the procedure below.

- **1** Perform the steps 1 to 7 in "To select the rating" on page 54 to display the Parental Lock options.
- **2** Move the joystick up or down to select "Custom," and press (+).



**3** Make sure that "Movie Ratings" is selected, and press 🕀.



4 Move the joystick up or down to select the rating to be blocked, and press ⊕.

The  $\bigcirc$  indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.

Custom Ratings Movie Ratings TV Rating Unrated;Allow	- G - PG D PG-13 4 R -17 4 NC-17 4 X
Move: <b>↑↓→</b> ← Select:Qe	End: 📟

To unblock a rating, select it by moving the joystick up or down, then press (+). The indicator (+) changes into "-" and all "lower" ratings are unblocked.

5 Move the joystick left, then down, to select "TV Rating" or "Program," and press (+).

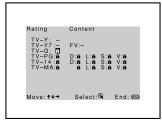


**6** The "TV Rating" setting menu appears.

Rating	Content
TV-Y: ■ TV-Y7: TV-G3: TV-PG: TV-14: TV-MA:-	FV:- D:- L:- S:- V:- D:- L:- S:- V:- L:- S:- V:-
Move: <b>↑↓→</b>	Select: 🍕 End: 🎟

7 Move the joystick up or down to select the rating to be blocked, and press (-).

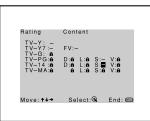
The 🗄 indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.



To unblock a rating, select it by moving the joystick up or down, then press . The indicator changes into "-" and all "lower" ratings are unblocked.

Some TV ratings have additional content ratings called "extenders." The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

8 Move the joystick left or right to select the extender to be viewed, and press ).



"-" appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you press  $\bigoplus$  again, is displayed to show that the programs that match the extender will be blocked again.

**9** Repeat step 8 for other extenders.

All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

**1O**Press MENU to exit the menu screen.

#### **US custom rating options**

www.DataSheet4U.com

If you selected U.S.A. as the country of residence on page 54, the Custom Rating Menu includes the following options. (If you selected Canada, see page 61.)

ensure maximum	Option	Descrip	tion	
ing capability, the	Movie Rating	G	All children and General Audience.	
based ratings should		PG	Parental Guidance suggested.	
ocked.		PG-13	Parental Guidance for children under 13.	
veu chasse to block		R	Restricted viewing, parental guidance is suggested for children under 17.	
you choose to block ed TV programs, e be aware that the		NC-17 and X	No one 17 and under allowed.	
ving programs may	TV Rating	Age-Based Options		
ocked: emergency	<b>Block</b> programs	TV-Y	All children.	
Icasts, political ams, sports, news,	by their rating,	TV-Y7	Directed to older children.	
c service	content or both	TV-G	General Audience.	
uncements, religious		TV-PG	Parental Guidance suggested.	
ams and weather.		TV-14	Parents Strongly cautioned.	
		TV-MA	Mature Audience only.	
		Content	-Based Options	
		FV	Fantasy Violence.	
		D	Suggestive Dialogue.	
		L	Strong Language.	
		S	Sexual situations.	
		V	Violence.	
	Unrated Block programs	Block	Blocks all programs and movies that are broadcast without a rating.	
	or movies that are broadcast without a rating	Allow	Allows programs and movies that are broadcast without a rating.	

A The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

Ϋ То blockir age-ba be blo

🦉 lf y unrate please followi be blo broadd progra public annou progra

#### Canadian custom rating options

Canadian custom rating options www.DataSheet4U.com If you selected Canada as the country of residence on page 54, the Custom Rating Menu includes the following options. (If you selected U.S.A., see page 60.)

Option	Description	on		
English Rating	С	All children.		
	C8+	Children 8 years and older.		
	G	General programming.		
	PG	Parental Guidance.		
	14+	Viewers 14 and older.		
	18+	Adult programming.		
French Rating	G	General programming.		
	8 ans+	Not recommended for young children.		
	13 ans+	Not recommended for ages under 13.		
	16 ans+	Not recommended for ages under 16.		
	18 ans+	Programming restricted to adults.		
JSA Rating	See "TV Ratin	g" on page 60 for details.		

To select the Timer menu
1 Press MENU.
2 Move the joystick to the Timer icon <sup>™®®</sup> and press ⊕.
To set the Current Time Daylight Saving:OFF
1 Use the joystick to select "Current Time", then press ↔.
2 If it is currently Daylight Saving Time, be sure to set the mode to "ON" first.
<b>3</b> Use the joystick to enter the correct time, then press $(-)$ .
4 Press MENU to exit the menu screen.
<b>To set the Timer</b> Before setting the timer, be sure to set your projection TV's clock to the current time and Daylight Saving Mode.
<b>1</b> Move the joystick to "Timer 1" or "Timer 2", then press $(+)$ .

- 2 Use the joystick to enter your day, time and channel preferences, then press (+) to select each one.
- **3** Press MENU to exit the menu screen.

#### To reset the Clock or Timers

Press RESET on the remote control after selecting that option in the Timer menu.

Option	Description	
Timer 1 Timer 2	Program	Select to set the Timer by day, time, duration, and channel.
	OFF	Select to turn off the Timer. (Your previous settings will be saved.)
Current Time	Set the current	time.
Daylight Saving	ON	Select in the spring to adjust the time during Daylight Saving Time.
	OFF	Select in the fall to adjust the time at the end of Daylight Saving Time.

#### Selecting Timer Options

The Timer menu includes the following options:



## **Using the Setup Menu**

www.DataSheet4U.com

#### To select the Setup Menu

- **1** Press MENU.
- 2 Move the joystick to the Setup icon and press .
- **3** Use the joystick to scroll through the features.
- 4 Press 🕑 to select a feature. That feature's options appear.
- **5** Use the joystick to scroll through the options.
- **b** Press to select the desired option.
- **7** Press MENU to exit the menu screen.

Video	I Visio		t Timer	Setup
Move:	↓→←	Select:	Er	d: 🕬

Selecting	
Setup Options	

The Setup menu includes the following options:

Option	Description	
Caption Vision	-	from three closed caption modes (for adcast with closed caption).
	OFF	Turns off Caption Vision.
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)
	TEXT1, TEXT2, TEXT3, TEXT4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.
	XDS (Extended Data Service)	Displays a network name, program name, program length, and time of the show if the broadcaster offers this service.

To use this feature with widescreen DVDs, set your DVD player to 16:9 aspect ratio.

Option	Description	www.DataSheet4U.com	
Video Label	to the projection TV VIDEO. When in the the joystick to highli select it. Use the joy to select the compon jacks on the back of	the audio/video components you connected so you can identify them when using TV/ e Setup menu's Video Label feature, use ght an input to label, then press (+) to stick to scroll through the labels. Press (+) ent you connected to each of the input your projection TV. Select "Skip" if you do nt connected to a particular set of input	
	VIDEO 1/2/3/4	VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip	
	VIDEO 5/6	DVD, DTV, HD, Skip	
	If you select "Skip", your projection TV skips this connection when you press TV/VIDEO.		
	TV's input is fixe		
Language	Select to display all on-screen menus in your language of choice: English, Español, Français.		
16:9 Enhanced	such as selected DV	icture resolution for widescreen sources, D titles (only available when the projection de). Press TV/VIDEO and select from one ons:	
	AUTO	To activate automatically when a 16:9 signal is received.	
	ON	To activate manually.	
	OFF	To deactivate manually.	

AUTO/ON will appear when projection TV is in Video mode 1-6. ON/OFF will appear when projection TV is in VIDEO mode 5-6 and the 480p signal occurs.

## **Other Information**

## Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
Beta, ED Beta VCRs	AV1	303
8 mm VCR	AV2	302
VHS VCR	AV3	301
DVD Player	DVD	751

If you have video equipment other than Sony brand that you want to control with the projection TV's remote control, use the following procedures to program the remote control.

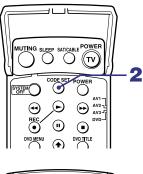
The equipment must have infrared (IR) remote capability in order to be used with the remote control.

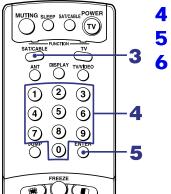
From the "Manufacturer's Codes" listed on page 67, select the three-digit code number for the manufacturer's code for your component. If more than one code number is listed, start with the number listed first. Use the code number to complete the following procedure.

#### To program a cable box or a satellite receiver

- **1** Open the panel of the remote control.
- **2** Press CODE SET inside the panel.
- **3** Close the panel and press SAT/CABLE (FUNCTON).
- 4 Enter the three-digit manufacturer's code number using the 0-9 buttons.
- **5** Press ENTER.

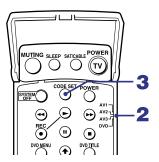
To check if the code number works, aim the projection TV's remote control at the component and press the green POWER button that corresponds with that component. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

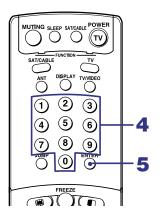




(Continued)

#### **Other Information**





#### To program video equipment

www.DataSheet4U.com

- **1** Open the panel of the remote control.
- **2** Move the slide switch to the desired component type.
- **3** Press CODE SET inside the panel.

A You must perform step 4 within 10 seconds of step 3, or you must start again from step 3.

- 4 Close the panel and enter the three-digit manufacturer's code number using the 0-9 buttons.
- **5** Press ENTER.
- **6** To check if the code number works, aim the projection TV's remote control at the component, open the panel, and press the green POWER button. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

#### Tips

- □ If more than one code number is listed, try entering them one by one until you come to the correct code for your component.
- □ If you enter a new code number, the code number you previously entered at that setting is erased.
- □ In some rare cases, you may not be able to operate your component with the Sony remote control. In this case, use the component's own remote control unit.

#### Manufacturer's Codes

#### VCRs

VURS	
Manufacturer	Code
Sony	301
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305,338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335

Manufacturer	Code
Minolta	305, 304
Mitsubishi/	323, 324, 325,
MGA	326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/	304, 305, 308,
PROSCAN	309, 311, 312,
	313, 310, 329
Realistic	309, 330, 328,
<b>C</b>	335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324,
	325, 326 325, 326
Sharp	327, 328
Shintom	315
Signature 2000	338, 327
(M. Ward)	556, 527
SV2000	338
Sylvania	308, 309, 338,
	310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314. 336, 338, 337
Technics	309, 308
Toshiba	312, 311

#### **Other Information**

ManufactUrer:SrGodel.com		
Wards	327, 328, 335,	
	331, 332	
Yamaha	314, 330, 336,	
	337	
Zenith	331	

#### **DVD Players**

Manufacturer	Code
Sony	751
Panasonic	753
Pioneer	752
RCA	755
Toshiba	754

#### **Cable Boxes**

Code
222, 223, 224,
225, 226
201, 202, 203,
204, 205, 206,
207, 208, 218
227, 228, 229
219, 220, 221
214, 215
209, 210, 211
216, 217
212, 213

#### Satellite Receivers

Manufacturer	Code
Sony	801
General	802
Electric	
Hitachi	805
Hughes	804
Panasonic	803
RCA/	802, 808
PROSCAN	
Toshiba	806, 807

#### **Other Information**

# Operating Other Components with Your Projection TV-Remote Control

#### Operating a VCR

Open the panel and move the slide switch to the AV input you coded for this device.

To Do This	Press	
Turn on/off	green POWER button (inside the panel)	
Change channels	CH +/-	
Record	and REC simultaneously	
Play		
Stop		
Fast forward	<b>&gt;&gt;</b>	
Rewind the tape		
Pause	(press again to resume normal playback)	
Search the picture	►► or ◄◀ during playback	
forward or backward	(release to resume normal playback)	
Change input mode	Slide switch	

#### Operating a DVD Player

Open the panel and move the slide switch to the DVD input you coded for this device.

To Do This	Press
Turn on/off	green POWER button (inside the panel)
Play	
Stop	
Pause	II (press again to resume normal playback)
Step through different tracks of an audio disc	$\blacktriangleright$ to step forward or $\blacktriangleleft$ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Select tracks directly	0-9 buttons
Display the menu (Setup)	MENU
Display the DVD title	DVD TITLE
Operate the DVD menu	<b>↑</b> , <b>↓</b> , <b>←</b> , <b>→</b> , ENTER

## *Operating a Cable Box*

To Do This	Press	
Turn on/off	SAT/CABLE (POWER)	
Select Cable Box	SAT/CABLE (FUNCTION)	
Select a channel	0-9 buttons, ENTER	
Change channels	CH +/-	
Back to previous channel	JUMP	

## *Operating a Satellite Receiver*

To Do This	Press
Turn on/off	SAT/CABLE (POWER)
Select Satellite Receiver	SAT/CABLE (FUNCTION)
Select a channel	0-9 buttons, ENTER
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY
Display DBS guide	GUIDE
Display DBS menu	MENU
Move highlight (cursor)	Joystick or arrows
Select item	$\bigcirc$

## Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

Problem	Po	ssible Remedies
No picture		Make sure the projection TV's power cord is connected securely to the wall outlet.
(screen not lit),		Push the power button on the front of the projection TV.
no sound		Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6.
		Try another channel. It could be station trouble.
		The Parental Control feature is activated. (see "Using the Parent Menu" on page 54)
		If your projection TV does not turn on, and a red light keeps flashing, your projection TV may need service. Call your local Sony Service Center.
	_	
Remote control		Batteries could be weak. Replace the batteries. Press TV (FUNCTION) when operating your projection TV.
does not operate	ū.	Make sure the projection TV's power cord is connected securely to the wall outlet.
	ū.	Locate the projection TV is power cord is connected securely to the wall outlet.
	ū.	Check the orientation of the batteries.
Dark, poor or no		Adjust the Picture setting in the Video menu. (see page 48)
picture (screen lit),		Adjust the Brightness setting in the Video menu. (see page 48)
good sound		Check antenna/cable connections.
		Adjust the convergence again using FLASH FOCUS. (see "Adjusting the
		Convergence Automatically – FLASH FOCUS <sup>™</sup> –" on page 33)
Good picture,		Press MUTING so that "MUTING" disappears from the screen. (see page 34)
no sound		Make sure Speaker is set to ON in the Audio menu. (see page 51)
		Check the MTS setting in the Audio menu. (see "MTS" on page 50)
Cannot receive digital channels		Check the connections between the DTV receiver and the projection TV. (see page
(when a DTV receiver is	-	
connected)		Check your local listings to find out if you can receive digital broadcasts in your area.
Cannot receive upper channels		Change Cable to OFF. (see page 52)
(UHF) when		Use Auto Program in the Channel menu to add receivable channels that are not
using an antenna		presently in TV memory. (see page 53)
No color		Adjust the Color settings in the Video menu. (see page 48)
Only snow and noise		Check the Cable setting in the Channel menu. (see "Cable" on page 52)
appear on the screen		Check the antenna/cable connections.
		Make sure the channel is broadcasting programs.
		Press ANT to change the input mode. (see page 37)
Dotted lines		Adjust the antenna.
or stripes		Move the projection TV away from noise sources such as cars, neon signs, or hair
		dryers.

#### **Other Information**

Problem	Po	ssible Remedies	www.DataSheet4U.com
Projection TV is fixed to one channel		Use Auto Program in the Channel m presently in TV memory. (see page 5 Check your Channel Fix settings. (see	
Double images or ghosts		Use a highly directional outdoor anter reflections from nearby mountains or	nna or a cable (when the problem is caused by tall buildings).
Cannot operate menu		If the item you want to choose appear Turn the projection TV's power off a	
Cannot receive any channels when using cable TV		Use Auto Program in the Channel m presently in TV memory. (see page 5. Check your cable settings. Make sure Cable is set to ON in the	
Cannot gain enough volume when using a cable box		Increase the volume of the cable box press TV (FUNCTION) and adjust the	using the cable box's remote control. Then he projection TV's volume.
Channel Index does not display all available channels			Channel menu. (see "Cable" on page 52) nenu to add receivable TV channels that are ge 53)
Cannot receive channels Unable to select a channel		Use Auto Program in the Channel m not presently in TV memory. (see page	enu to add receivable TV channels that are ge 53)
Lost password		In the password screen (see page 54), The master password clears your prev temporarily unblock channels.	enter the following master password: 4357. vious password; it cannot be used to
Cannot change channels with the remote control		4 setting if you are using another device to cor for that device has been pressed, or th	vitched your projection TV from channel 3 or ice to change channels. ntrol channels, be sure the "function" button e slide switch is set correctly. For example, if nannels, be sure to press SAT/CABLE.
Cannot cycle through the other video equipment connected to the projection TV		Be sure the Video Label feature has	not been set to Skip. (see page 64)
There is a black box on the screen		page 63 to reset Setup selections) To	e Setup menu and no text is available. (see turn this feature off, select OFF in the rying to get closed captioning, select CC1
There is no twin picture or it is just static			deo source/channel that has a program airing. ith nothing connected to it. Try cycling /IDEO.
		Twin View is not set to receive a sign	al from the AUX input. If you have ellite receiver to the AUX input on the

#### **Other Information**

Problem	Po	ssible Remedies	www.DataSheet4U.com
I get the same program in the window picture as in the main picture		picture or the window picture. You may be running all your channels only unscramble one signal at a time, so	Try changing channels in either the main through a cable box. The cable box will o you cannot use the Twin View feature. If jection TV's VHF/UHF input. (This will es an unscrambled signal.)
I cannot get anything but TV channels in my second picture		Be sure the video label has not been set menu on page 63.	t to skip your video inputs. See the Setup
Favorite Channel does not display your choices		Verify that Favorite Channel is set to "Favorite Channel" on page 52)	Manual in the Channel menu. (see
Some video sources do not appear when you press TV/ VIDEO		Ensure that Video Label is not set to SI	KIP. (see "Video Label" on page 64)

## **Specifications**

www.DataSheet4U.com

Projection system	3 picture tubes, 3 lense	es, horizontal in-line system	
Picture Tube	7-inch high-brightness monochrome tubes (6.3 raster size), with optical		
	coupling and liquid co		
Projection lenses	High performance, larg	ge	
	diameter hybrid lens F	1.1	
Antenna	75 ohm external termin	nal for VHF/UHF	
Television System	NTSC, American TV S	Standard	
Screen size (measured diagonally)	43 inches (KP-43HT20	0)	
	53 inches (KP-53HS20		
	61 inches (KP-61HS20	), KP-61HS30)	
Channel Coverage			
VHF	2-13		
UHF	14-69		
CATV	1-125		
Power Requirements	120V, 60 Hz		
Number of Inputs/Outputs			
Video (IN)	4	1 Vp-p, 75 ohms unbalanced, sync negative	
S Video (IN)	3	Y: 1 Vp-p, 75 ohms unbalanced, sync	
		negative	
		C: 0.286 Vp-p (Burst signal), 75 ohms	
Audio (IN)	б	500 mVrms (100% modulation)	
		Impedance: 47 kiloohms	
AUDIO (VAR/FIX) OUT	1	500 mVrms (100 % modulation), Impedance:	
		470 ohms	
TV Out	1	1 Vp-p, 75 ohms unbalanced, sync negative	
CONTROL S (IN/OUT)	1	minijacks	
Component Video Input	2 (Y, P <sub>B</sub> , P <sub>R</sub> )	Y: 1.0 Vp-p, 75 ohms unbalanced, sync	
		negative	
		P <sub>B</sub> : 0.7 Vp-p, 75 ohms	
		P <sub>R</sub> : 0.7 Vp-p, 75 ohms	
RF Inputs	2	K TY T TYTE T	
Converter	1		

#### **Other Information**

Supplied Accessories	www.DataSheet4U.com
Remote Control	RM-Y908
AA (R6) Batteries	2 supplied for remote control
Optional Accessories	
AV Cable	VMC-810/820/830 HG
Audio Cable	RKC-515HG
Control S Cable	RK-G69HG
Component Video Cable	VMC-10/30 HG
AV receiver	STR-V555ES
TV Stand	SU-43HT4/43HT5
Speaker Output	20 W × 2 (KP-43HT20, KP-53HS30, KP-61HS30)
	18 W × 2 (KP-53HS20, KP-61HS20)
Dimensions ( $W \times H \times D$ )	38 × 42 <sup>1</sup> / <sub>8</sub> × 22 <sup>4</sup> / <sub>3</sub> inches (965 × 1,069 × 577 mm) (KP-43HT20)
	46 $\frac{1}{2} \times 55$ $\frac{7}{8} \times 25$ inches (1,180 $\times$ 1,417 $\times$ 632 mm) (KP-53HS20, KP-
	53HS30)
	$54 \times 61$ <sup>1</sup> / <sub>2</sub> × 26 <sup>1</sup> / <sub>4</sub> inches (1,370 × 1,560 × 666 mm) (KP-61HS20, KP-
	61HS30)
Mass	119 lb 8 oz (54.2 kg) (KP-43HT20)
	152 lb 9 oz (69.2 kg) (KP-53HS20)
	157 lb (71.2 kg) (KP-53HS30)
	203 lb 11 oz (92.4 kg) (KP-61HS20)
	210 lb 5 oz (95.4 kg) (KP-61HS30)
Power Consumption	
In Use	230 W
In Standby	Under 1 W

Design and specifications are subject to change without notice.

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