

User's Instructions

HDTV DIGITAL RECEIVER

DST-HD1100E



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WARNING:

TO REDUCE THE RISK OF ELECTRONIC SHOCK DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATEARL TRIAAGLE, 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 PRESONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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This manual is made by sample purpose only. Not for general consumers.

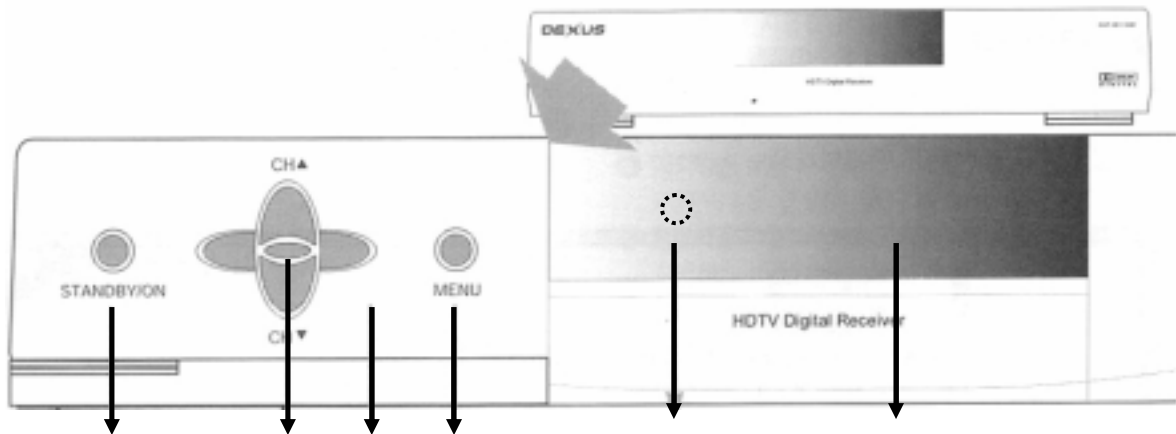


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1. DST HD 1100E: HDTV Digital Receiver

1.1 Front Panel Controls and LEDs



STANDBY/ON

Press to turn the power on or off.

SEL

Press to make a selection when using the on-screen menus.

Left/Right/Up/Down

Use to change channels or to move on-screen menus.

MENU

Press to display the OSD(on-screen display).

LED

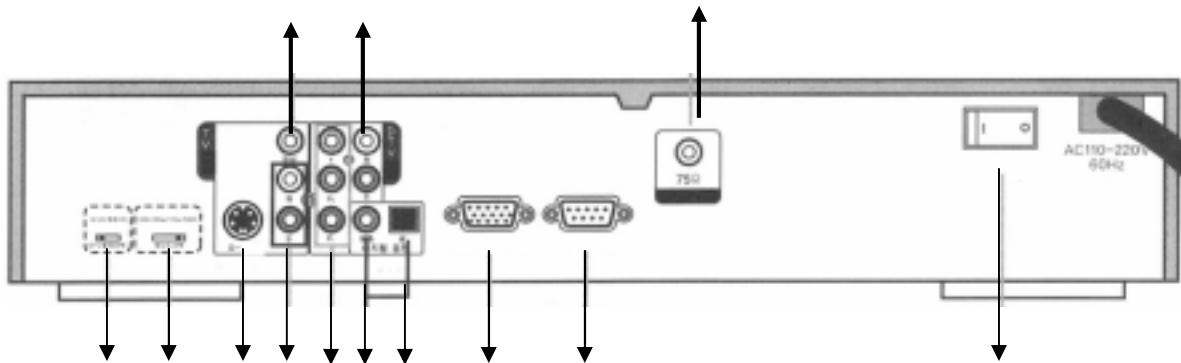
When the receiver is powered on, the LED indicator lights green. Otherwise, it lights red.

Channel Display

When you are watching digital channel, it displays 'd' with its channel number.

When you are watching analog channel, it displays, 'A' with its channel number.

1.2 Rear Panel Jacks



VIDEO OUT

If your TV or monitor has Audio/Video capability, connect this jack to the AV Input jack on your TV or monitor using an Audio/Video cable.

Left/Right ANALOG-AUDIO OUTPUTS(with Digital Video Output)

Connect these terminals to the analog audio inputs of a TV set (i.e., to a TV that has jacks for L/R inputs). Or, connect these terminals to the L/R inputs of a separate audio component. Recommended to use these terminals when you use YPbPr or RGB for video.

RF INPUT (75 Ohm)

Connect the antenna here

DTV Output Selector(Monitor/Y, P_B, P_R)

Connect to the Y-P_B-P_R/RGB digital video input of a digital-compatible TV set (or the Y-P_B-P_R/RGB inputs of some other video component).

Display Format Selector

Switches between 1080i (interlaced scanning), 720p (progressive scanning), 480p (progressive scanning), and 480i (interlaced scanning) formats. (For HDTV broadcasts, 1080i is usually the best setting.)

S-VIDEO OUTPUT

If your TV or monitor has S-Video capability, use this jack along with the Audio/Video jacks to connect the HDTV Digital Receiver to your receiver.



Left/Right ANALOG-AUDIO OUTPUTS(with Analog Video Output)

Connect these terminals to the analog audio inputs of a TV set (i.e., to a TV that has jacks for L/R inputs). Or, connect these terminals to the L/R inputs of a separate audio component. Recommended to use these terminals when you use analog for video.

DTV OUT COMPONENT (Y, P_B, P_R format)

Connect to the Y-P_B-P_R digital video input of a digital compatible TV set (or the Y-P_B-P_R inputs of some other video component).

SPDIF Output(Coaxial)

Connect this terminal to the digital audio input of a TV set.

SPDIF Output(Fiber optic connector)

Connect this terminal to the digital audio input of a TV set (i.e., to a TV set that has a fiber-optic connector for digital audio). Or, connect this terminal to the digital audio input of a separate component (i.e., Dolby Digital-AMP..).

PC Monitor Output (R,G,B FORMAT)

Connect to the R, G, B inputs of a TV set, computer monitor, or some other video component.

Upgrade Port (RS232C)

It is used for firmware upgrade. **DO NOT USE THIS PORT AT ANY TIME!**

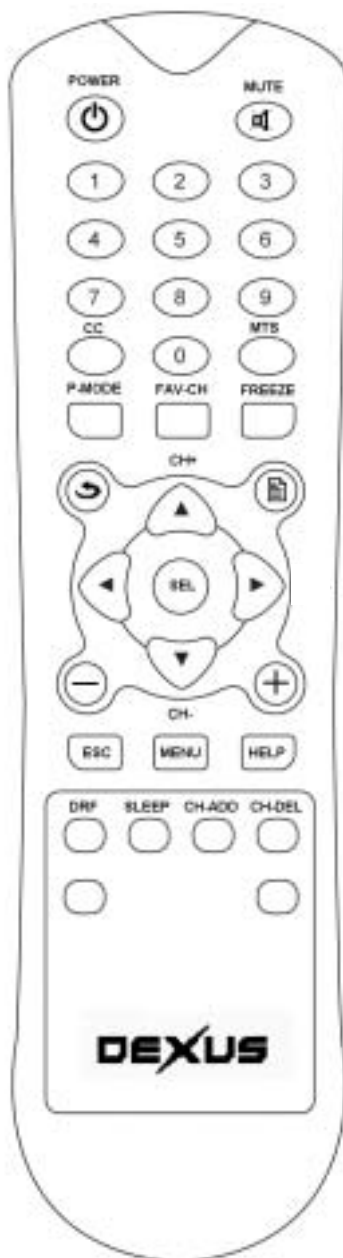
Power Switch

Press the switch to turn the power on or off

2. The Remote Control

2.1 Reviewing the Remote Control

The HDTV Digital Receiver remote control and on-screen menu system work together to make operating the HDTV Digital Receiver as simple as possible.



POWER

Press to turn the power on or off.

MUTE

Press to temporarily cut off the sound.

CAPTION

When a digital signal is received, only available languages can be selected. Currently the HDTV Digital Receiver supports English caption.

Channel-Number Buttons

Press to directly tune to a particular channel.

MTS (Multitrack Sound)

Press to SEL among the available “multitracks” (for example, depending on the particular broadcast, one or more foreign-language translations might be available).

P-MODE(Picture Display Mode)

Press to SEL picture display mode for best view. Picture display modes consist of full (no aspect ratio conversion), zoom and wide.

FAV-CH (Favorite Channel)

Press to switch among your favorite channels.

FREEZE

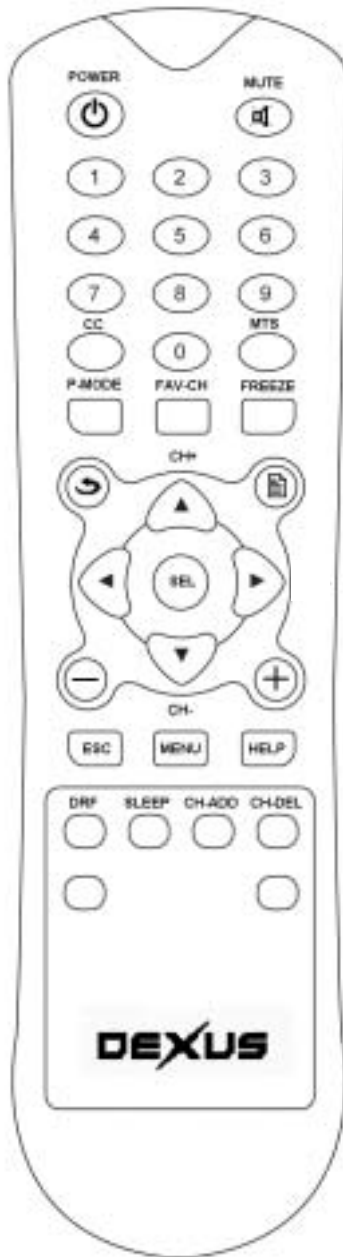
Press to freeze the current picture. Press again to resume motion.

Previous Channel(🔍)

Press to alternate between the current channel and the last channel that was displayed.

Program Guide(📺)

Press to display the on-screen, Electronic Program Guide (EPG).



CH+, CH- (Channel Up and Down)

Press to change channels.

Minor Channel UP/DOWN(−, +)

Press to increase or decrease the minor.

SEL

While using the on-screen menus, press to activate (or change) a particular item. Otherwise press SEL to display information about the current box settings and program: Channel number, Time, Program title, Program duration, Caption, Digital picture grade, and MTS language.

ESC

Press to exit the current on-screen menus and go to previous menu.

MENU

Press to display the on-screen menus, or to switch back to the previous menu-screen that was displayed.

HELP

Currently the HDTV Digital Receiver does not support this function.

DRF(Digital TV Radio Frequency Channel)

Press DRF and DTV RF channel number to watch un-scanned DTV stations.

SLEEP(Sleep Timer)

Press to set the turn off time.

CH-ADD(Channel Add)

Press to add the current channel.

CH-DEL(Channel Delete)

Press to delete the current channel.

3. Operation

3.1 The On-Screen Menu System

The seven menu controls are located in the center of the remote control: MENU, UP(Channel Up), DOWN(Channel Down), LEFT, RIGHT, SEL(SEL), ESC(Previous Menu).

3.2 Viewing the Display

You can quickly check the status of many of the HDTV Digital Receiver features and options by pressing the SEL button.

The Display shows:

- The major channel number and the minor channel number if you are viewing a digital channel.
- The current time and date.
- Program title.
- Program duration.
- The status of closed captions if the broadcast includes them.
- The digital picture grade, such as HD (High Definition) or SD (Standard Definition).
- The audio track language.
- The signal strength.

To view the Display:

Press SEL on the remote control.

To hide the Display:

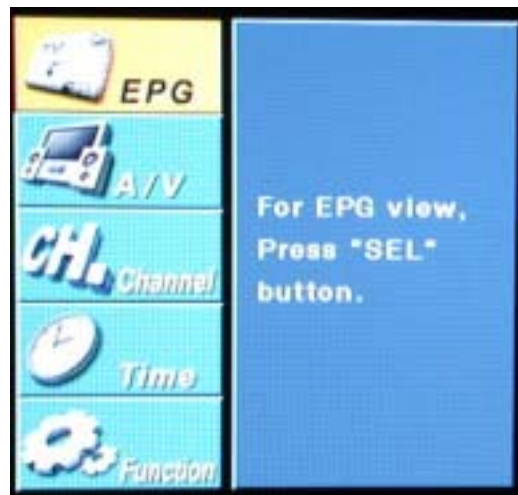
Press ESC or wait 4 seconds and the display will disappear.

3.3 Using the EPG (Electronic Program Guide)

1 Press the MENU on the remote control.



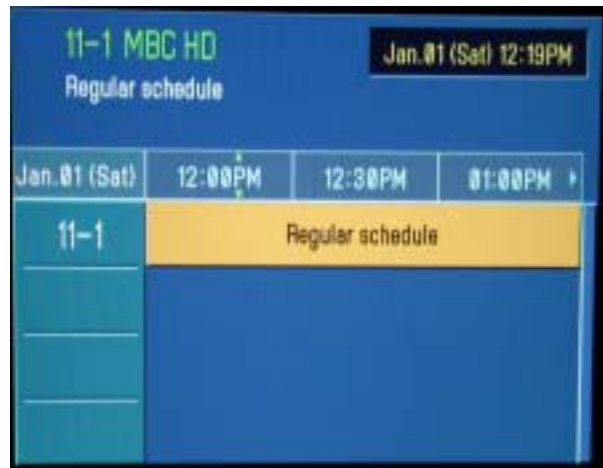
2 Press the UP or DOWN on the remote control to highlight the "EPG" icon and press SEL.



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3 Press the Arrow buttons on the remote control repeatedly to move to the channel with program information.



4 You may now:

- Obtain additional program details: By pressing the UP, DOWN, RIGHT or LEFT button to highlight a program title and press SEL.

NOTES

You can quickly switch to a GUIDE mode by pressing the “Program Guide(

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3.4 Changing the Screen Format

Your selection in the Screen Format menu depends on the type of TV or monitor you are using with your HDTV Digital Receiver.

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "A/V" icon and press SEL.



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3 Press the UP or DOWN button on the remote control to highlight the “Display Mode” icon and press SEL.



4 Press the UP or DOWN button on the remote control to select your Monitor Type either 4:3 or 16:9 and press the RIGHT button to highlight “Display Mode”



5 Press the UP or DOWN button on the remote control to select a “Display Mode” among ‘Normal’, ‘Wide’ or ‘Zoom’.



With a 4:3 Ratio TV or Monitor

If you are using a 4:3 ratio TV or monitor and receive an image with a 16:9 ratio, you need to specify how the image is displayed.

Wide(Letter box)

Choose this when receiving a 16:9 image and you want to see the original wide format. Letter boxing shrinks the picture so the entire image will fit on the screen. Blank panels appear at the top and bottom of the screen.

Normal

Choose this when you want the television to adjust the 16:9 image vertically so it fills your 4:3 screen. No blank panels will be added, and the image is horizontally unaltered.

Zoom

Choose this when receiving a 16:9 image and you want the wide movie format to fill the entire screen. Left and right portions of the picture are cropped, or cut.

With a 16:9 Ratio TV or Monitor

If you are using a 16:9 ratio TV or monitor and receive an image with a 4:3 aspect ratio, the image will be displayed at the 4:3 ratio on your monitor unless you specify otherwise. The Screen Format menu allows you to adjust the image through the following options:

Wide(Side bar)

Choose this when receiving a 4:3 image and you want the on-screen appearance of the video to be a centered picture with blank panels on the right and left sides.

Normal

Choose this when you want the television to adjust the 4:3 image horizontally so it fills your 16:9 screen. No blank panels will be added, and the image is vertically unaltered.

This setting is especially useful for viewing 4:3 formatted DVDs.

Zoom

Choose this when receiving a 4:3 image and you want to maintain the correct image proportion. Top and bottom portions of the picture are cropped, or cut.

NOTE

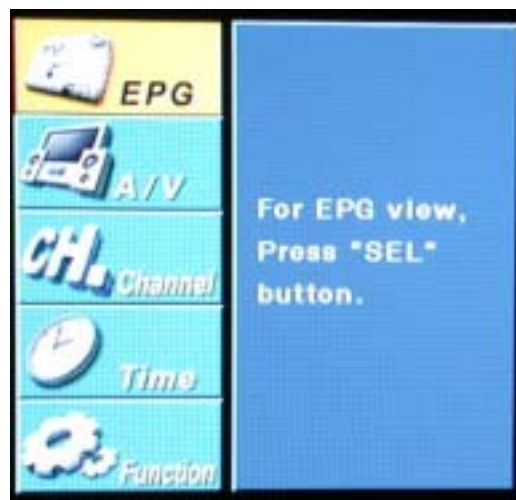
The availability of the Changing the Screen Format feature depends on the Resolution Select and current broadcasting signal format.

3.5 Choosing a Digital Sound Format (Dolby Digital or PCM)

Both audio and digital sound are available from the rear-panel connectors of the HDTV Digital Receiver. The digital audio output is an optical connector labeled “SPDIF Output.”

After connecting the optical digital-audio component, you must specify the transmission format (PCM or Dolby Digital, as appropriate to your particular equipment).

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “A/V” icon and press SEL.

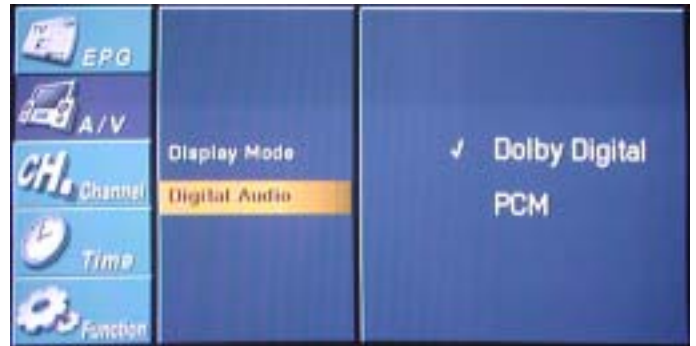




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3 Press the UP or DOWN button on the remote control to highlight the “Digital Audio” icon and press SEL.



4 Press the UP or DOWN button on the remote control to highlight “Dolby Digital” or “PCM” and press SEL to save the format.



3.6 Setting Up Captions (On-screen Text Messages)

How to Activate or Deactivate the On-screen Captions

- 1** Press the CC button on the remote control.
- 2** Press the CC button repeatedly to alternate between “English” and “Off”.

* The current HDTV Digital Receiver supports ‘English’ only.

(Note: Availability of captions depends on the particular program being broadcast.)

3.7 Choosing a Sound “Multitrack”

- 1** Press the MTS button on the remote control.
- 2** Press the MTS button repeatedly until the appropriate language appears

(The available languages will vary, depending on the particular program).

3.8 Selecting “Input Type”(Air or Cable)

You can select 'Air' for terrestrial broadcast and 'Cable' for cable.

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Channel” icon and press SEL.



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3 Press the UP or DOWN button on the remote control to highlight the “Input Select” icon and press SEL.



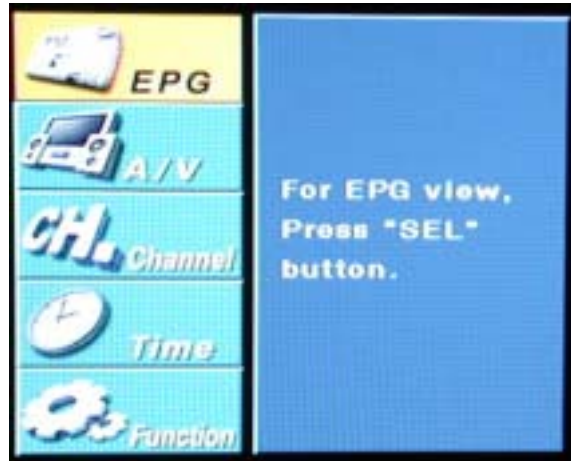
4 Press the UP or DOWN button on the remote control to highlight “Air” or “Cable” and press SEL to save the type.



3.9 Memorizing Channels

Before you can use any of the special channel buttons (CH+,CH-, FAV-CH), the available channels must first be scanned and memorized. To memorize channels:

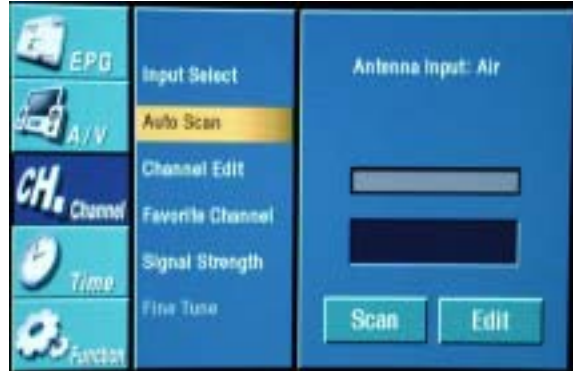
1 Press the MENU button on the remote control.



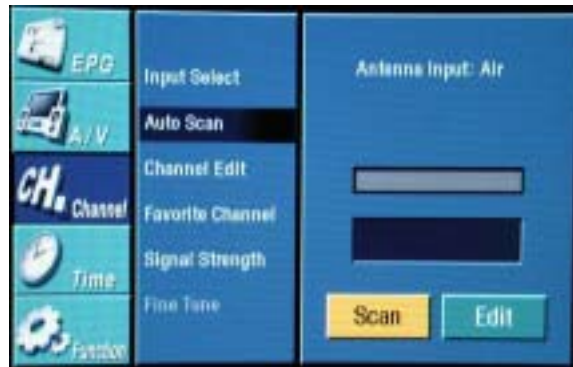
2 Press the UP or DOWN button on the remote control to highlight the "Channel" icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the “Auto Scan” icon and press SEL then “Scan” icon will be highlighted.



4 Press the SEL button on the remote control then HDTV Digital Receiver will scan and store all of the digital (DTV) channels that are available in your local area automatically.



NOTES

The HDTV Digital Receiver **MUST** be connected to an antenna in order to receive digital TV signals.

Even if a particular channel is deleted from the memory, you can always tune to that channel directly by pressing the **NUMBER** buttons on the remote control.

3.10 Adding and Deleting Channels

To add channels that were not memorized (or to delete unwanted channels from the memory):

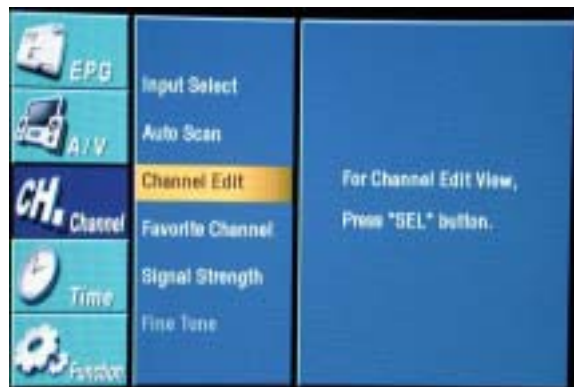
1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Channel” icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the “Channel Edit” and press SEL then Channel Edit window will appear.





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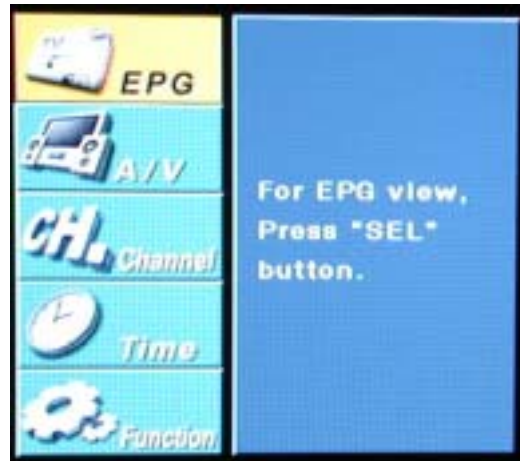
4 Press the Arrow buttons repeatedly to change a highlighted channel. If you want to delete a highlighted channel then press the CH-DEL button. Press the CH-ADD button when you want to restore deleted channels.



3.11 Setting Your Favorite Channels

This menu item helps to memorize your favorite channel into the memory and to select the channel quickly. "Auto Scan" is needed before using this function.

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Channel" icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the “Favorite Channel” and press SEL then Favorite Channel window that is located in the right side of OSD(On-Screen Display) will be shown.



4 Press the UP or DOWN button on the remote control to highlight the channel that you want to add and press SEL then the channel will be saved in “Favorite Channel” list. Or if you want to delete the channel in “Favorite Channel” list, press the RIGHT button to highlight the channel that was saved in “Favorite Channel” and press the UP or DOWN button to highlight the channel

that you want to delete and press SEL.



5 You can now jump from one favorite channel to another by pressing the FAV-CH button.

3.12 Changing Channels

Number buttons

Press the number buttons (0 – 9) to enter channel numbers.

NOTES 1

Press the SEL button after you select the channel to search “minor” channels then, the list of the minor channels will be displayed on the screen. To select one of them, press Left/Right buttons and press SEL.

NOTE 2

You can also select minor channels by pressing minor channel buttons (⊖, ⊕) on the remote control.

Previous Channel button()

Press to return to the previous channel you viewed. For example, if the box is tuned to channel 55 and then you change to channel 56, pressing PRE-CH will return to channel 55.

FAV-CH button()

Press to switch among your favorite channels.

3.13 Checking Digital-Signal Reception

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Channel” icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the “Signal Strength” icon. The signal strength meter will appear when the “Signal Strength” icon is highlighted





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4 If the signal strength meter indicates “weak”(in red color), physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

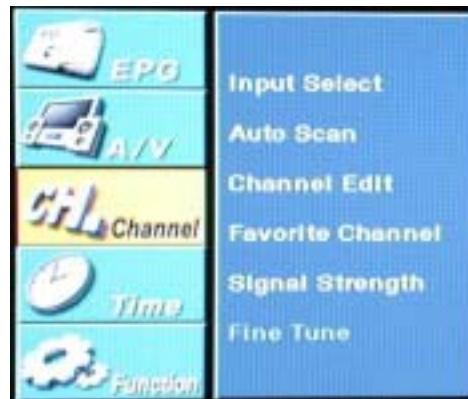
3.14 Fine Tune

This function is for analog channels only.

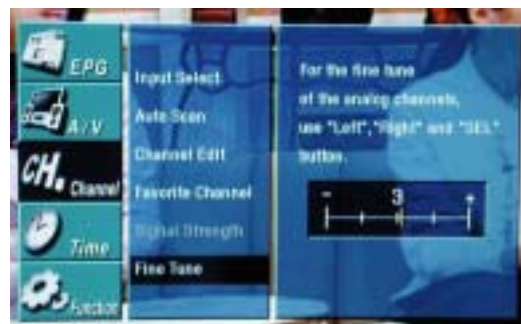
1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Channel" icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the "Fine Tune" icon and press SEL. Pressing the RIGHT or LEFT button repeatedly until you find the best watching conditions.



3.15 Setting Up Time and Date

You can set current time and date in this menu. Only when you are watching a digital channel and time information is being transmitted by TV station, you can select "Auto".

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Time" icon and press SEL.



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3 Press the UP or DOWN button on the remote control to highlight the “Date/Time” icon and press SEL.

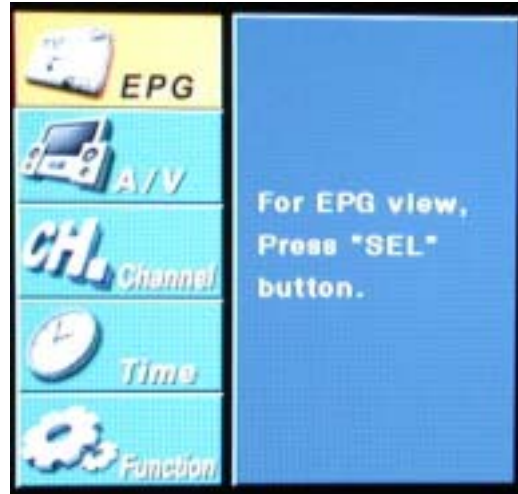
*Select “Auto” by pressing the UP or DOWN button, and press SEL then both date and time will be set up automatically. To enable this function, you need to set your time zone first in the “Time Zone” menu.

*You set your time manually in the “Manual” mode. Select “Manual” by pressing the UP or DOWN button, and press SEL then you can edit time and date by pressing the NUMBER buttons.



3.16 Using the Auto Turn-On

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Time” icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the “Auto Turn-On” icon and press SEL.



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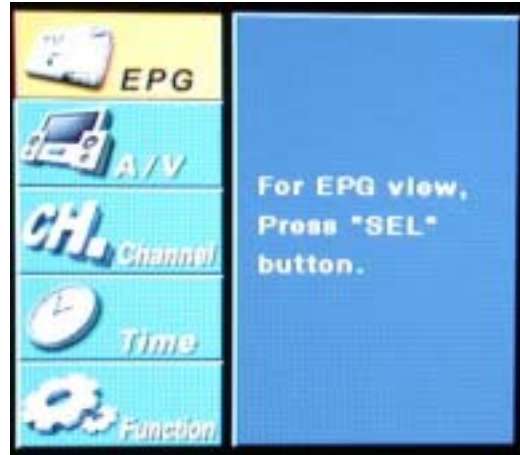
*In case of not using "Auto Turn-On", select 'Off'.

*Select 'Everyday' or 'Once' by pressing the UP or DOWN button, and press the RIGHT button to set up the time by pressing the NUMBER buttons. You must press SEL before exit to save the setting.



3.17 Using the Auto Turn-Off

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Time" icon and press SEL.



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3 Press the UP or DOWN button on the remote control to highlight the “Auto Turn-Off ” icon and press SEL.

*In case of not using “Auto Turn-Off”, select ‘Off’.

*Select ‘Everyday’ or ‘Once’ by pressing the UP or DOWN button, and press the RIGHT button to set up the time by pressing the NUMBER buttons. You must press SEL before exit to save the setting.



3.18 Using the Sleep Timer

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Time” and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the “Sleep Timer” icon and press SEL. Select any time on the menu and press SEL to save the setting.



*In case of not using “Sleep Timer”, select ‘Off’.

3.19 Setting Up the Time Zone

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Time” icon and press SEL.

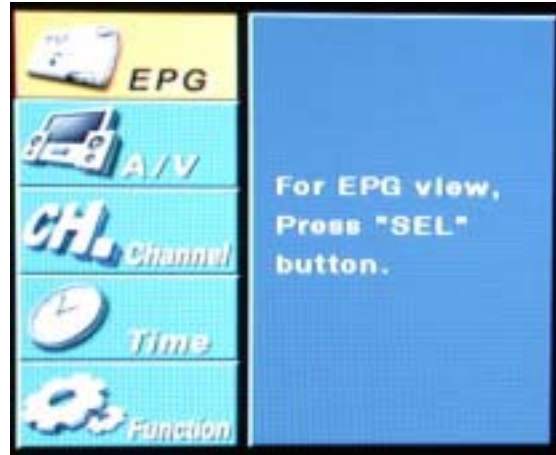


3 Press the UP or DOWN button on the remote control to highlight the “Time Zone” icon and press SEL. By pressing the UP or DOWN button, you can select the region where you live. Press SEL to save the setting.



3.20 Using the Daylight Saving

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the “Time” icon and press SEL.

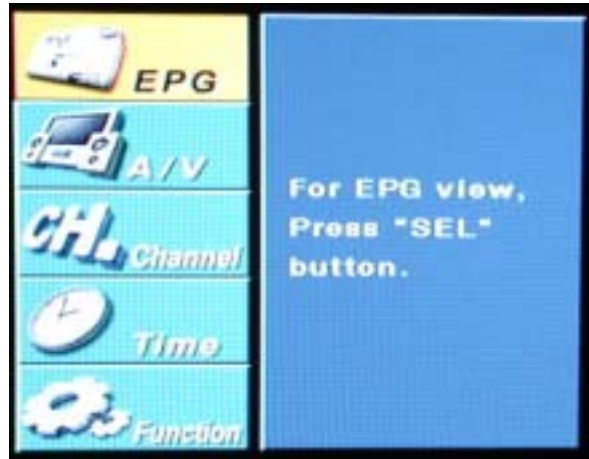


3 Press the UP or DOWN button on the remote control to highlight the “Daylight Saving” icon and press SEL. By pressing the UP or DOWN button, you can select either ‘On’ or ‘Off’. Press SEL to save the setting.



3.21 Setting Up the OSD Transparency

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Function" icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the "OSD Transparency" icon and press SEL.



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4 Press the UP or DOWN button to highlight your favorite OSD transparency and press SEL



3.22 Setting Up the V-chip Lock

This menu item can lock or unlock the programs according to MPAA ratings and TV parental guidelines.

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Function" icon and press SEL.



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3 Press the UP or DOWN button on the remote control to highlight the “V-Chip” icon and press SEL then Enter PIN window will appear.

(*PIN =Personal Identification Number)



4 Enter your PIN number by pressing the NUMBER buttons on the remote control and press SEL



5 Press the UP or DOWN button on the remote control to highlight the “V-Chip Lock” icon and press SEL.





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6 If you want to unlock the rating controls temporarily, select “Unlock”. Select “Lock” when you want to return to pre-stored rating controls.

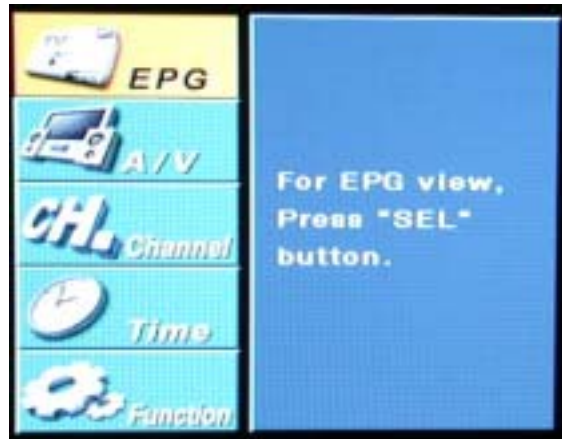
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3.23 Setting Up the Rating Control

This menu item helps you set the detailed control of MPAA ratings and TV parental guidelines.

1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Function" icon and press SEL.



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3 Press the UP or DOWN button on the remote control to highlight the “V-Chip” icon and press SEL then Enter PIN window will appear.



4 Enter your PIN number by pressing the NUMBER buttons on the remote control and press SEL



5 Press the UP or DOWN button on the remote control to highlight the “Rating Control” icon and press SEL. then Rating Control Setting window will appear.



6 Press the Arrow buttons on the remote control to highlight the item that you want to lock or unlock and press SEL repeatedly until you get your own selection.



MPAA Ratings :

- G All ages admitted
- PG Some material may not be suitable for children
- PG-13 Some material may be inappropriate for children under 13
- R Under 17 requires accompanying parents or adult guardian
- NC-17 No one 17 and under admitted
- X Adults only

TV Guidelines

TV-Y This program is designed to be appropriate for all children.

TV-Y7 This program is designed for children age 7 and above. For those programs where fantasy violence may be more intense or more combative than other programs in this category, such programs will be designated TV-Y7-FV.

TV-G Most parents would find this program suitable for all ages. Although this rating does not signify a program designed specifically for children, most parents may let younger children watch this program unattended. It contains little or no violence, no strong language and little or no sexual dialogue or situations.

TV-PG This program contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The theme itself may call for parental guidance and/or the program contains one or more of the following: moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

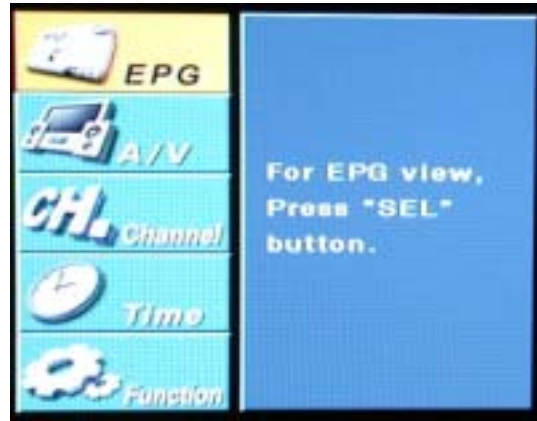
TV-14 This program contains some material that many parents would find unsuitable for children under 14 years of age. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

TV-MA This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. This program contains one or more of the following: graphic violence (V), explicit sexual activity (S), or crude indecent language (L)

3.24 Changing PIN

You can change your PIN in this menu item.

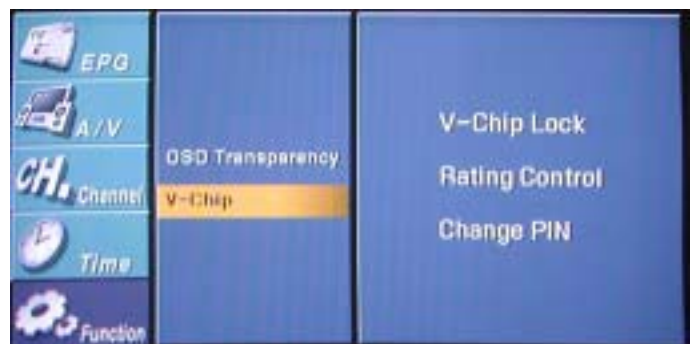
1 Press the MENU button on the remote control.



2 Press the UP or DOWN button on the remote control to highlight the "Function" icon and press SEL.



3 Press the UP or DOWN button on the remote control to highlight the "V-Chip" icon and press SEL then Enter PIN window will appear.



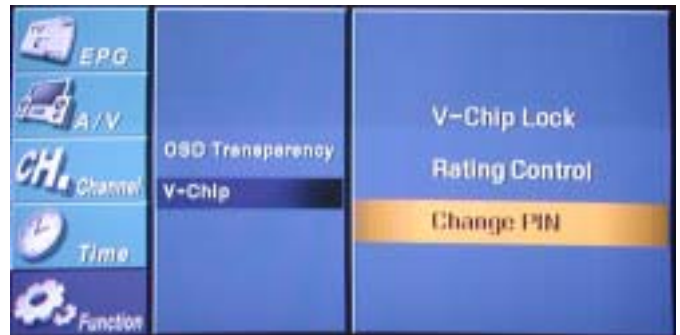
DST-HD1100E

HDTV DIGITAL RECEIVER

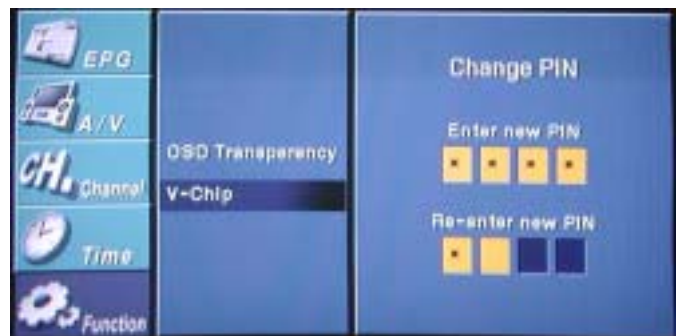
4 Enter your PIN number by pressing the NUMBER buttons on the remote control and press SEL



5 Press the UP or DOWN button on the remote control to highlight the “Change PIN” icon and press SEL. then Change PIN menu will appear.



6 Enter and re-enter your new PIN by pressing the NUMBER buttons on the remote control continuously and press SEL to save the new PIN.



4. Specifications

Model Name : DST- HD1100E		
Video	Coding Algorithm	MPEG-2 MP@HL (HDTV) MPEG-2 MP@ML (SDTV)
	Decoding Format	Supports all (18) ATSC formats
	Display Format	1080i, 720p, 480p, 480i
Audio	Coding Algorithm	Dolby Digital
Functions	Band coverage	Terrestrial : 2~69 channel Cable : 1~125 channel
	BroadCasting standard	DTV (ATSC), NTSC
	On Screen Display	English
	EPG	Support
	Display Format Selection	16:9/4:3, Wide/Normal/Zoom
Input Output Terminals	Antenna Input	IEC 169-2, Female (F-type), 75 Ohms
	Video Output	1 CVBS(Composite), 1 S-Video
	DTV Output	Component(Y/Pb/Pr, RGB), Lt, Rt
	Digital Audio Output	Fiber Optic, Coaxial
	Firmware Upgrade	RS-232C
	Speaker Out	Left, Right
Others	Remote Controller Unit	1 each, Needs DC1.5V AAAx2 battery
	Power requirement	90~230 VAC, 47~63 Hz
	Power Consumption	<40 watts / In standby: <2 watts
	Dimensions (W x D x H)	367mm x 266mm x 66mm
	Weight	2.3 Kg