ATTACHMENT E -3.

- USER'S MANUAL -

Displaying Information

You can view the channel information and setting status by pressing the "INFO" button on the remote control.

INFO

In case of applying TV input
Press INFO button.

```
 AIR   - 020
 12 : 30  AM


PICTURE  MODE  :  STANDARD
SOUND  MODE  :  USER
MTS  MODE  :  MONO
INPUT SIGNAL  :  MONO
```

INFO

In case of applying VIDEO input
Press INFO button.

```
 VIDEO  -  NTSC
 12 : 30  AM
```

INFO

In case of applying PC input
Press INFO button.
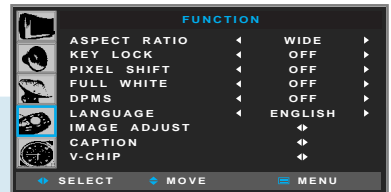
```
 PC  -  1024x768  70Hz
 12 : 30  AM
```

EXIT

If the EXIT button is pressed, the menu disappears.

How to Set Key-Lock

This is to lock the control buttons on the front bottom of PDP.

MENU

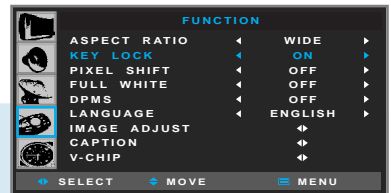**Press Menu button.**
Menu items appear on the screen.

```
                    FUNCTION
ASPECT RATIO      ◀      WIDE      ▶
KEY LOCK          ◀      OFF       ▶
PIXEL SHIFT       ◀      OFF       ▶
FULL WHITE        ◀      OFF       ▶
DPMS              ◀      OFF       ▶
LANGUAGE          ◀    ENGLISH     ▶
IMAGE ADJUST             ◆
CAPTION                 ◆
V-CHIP                  ◆
◆ SELECT    ◆ MOVE    ≡ MENU
```

1 P-CH▲ P-CH▼

Press Up and Down buttons to move to "FUNCTION" icon.

2 ◀ ▶

Press Left and Right buttons to select "FUNCTION".

```
                    FUNCTION
ASPECT RATIO      ◀      WIDE      ▶
KEY LOCK          ◀      ON        ▶
PIXEL SHIFT       ◀      OFF       ▶
FULL WHITE        ◀      OFF       ▶
DPMS              ◀      OFF       ▶
LANGUAGE          ◀    ENGLISH     ▶
IMAGE ADJUST             ◆
CAPTION                 ◆
V-CHIP                  ◆
◆ SELECT    ◆ MOVE    ≡ MENU
```

3 P-CH▲ P-CH▼

Press Up and Down buttons to move to "KEY LOCk".

4 ◀ ▶

Press Left and Right buttons to ON/OFF.

EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu. If the EXIT button is pressed, the menu disappears.

FUNCTION SETUP

TIP

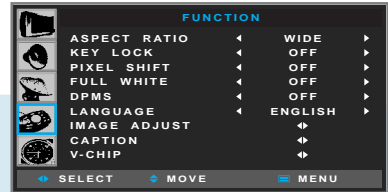When the AC power supply is cut off, key-lock function is automatically off.

Using the Pixel Shift / Full White / Wiper Function

This feature is designed to reduce image sticking effects during displaying a static picture.
(Brightness degradation is caused by the scale effects of a panel, which is characteristic of a PDP.)

MENU

Press Menu button.
Menu items appear on the screen.

```
                    FUNCTION
ASPECT  RATIO      ◄      WIDE       ►
KEY  LOCK          ◄      OFF        ►
PIXEL  SHIFT       ◄      OFF        ►
FULL  WHITE        ◄      OFF        ►
DPMS               ◄      OFF        ►
LANGUAGE           ◄      ENGLISH    ►
IMAGE  ADJUST                  ◄►
CAPTION                       ◄►
V-CHIP                        ◄►
  ◄► SELECT    ♦ MOVE       ≡ MENU
```

1 P-CH▲ P-CH▼

Press Up and Down buttons to move to "FUNCTION" icon.

2 ◄ ►

Press Left and Right buttons to select "FUNCTION".

```
                    FUNCTION
ASPECT  RATIO      ◄      WIDE       ►
KEY  LOCK          ◄      OFF        ►
PIXEL  SHIFT       ◄      OFF        ►
FULL  WHITE        ◄      OFF        ►
DPMS               ◄      OFF        ►
LANGUAGE           ◄      ENGLISH    ►
IMAGE  ADJUST                  ◄►
CAPTION                       ◄►
V-CHIP                        ◄►
  ◄► SELECT    ♦ MOVE       ≡ MENU
```

3 P-CH▲ P-CH▼

Press Up and Down buttons to move to "PIXEL SHIFT" or "FULL WHITE".

4 ◄ ►

Press Left and Right buttons to "ON/OFF".

4 EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

While FULL WHITE is activated, if you wish to switch the mode to Off or wish to use other function, press any of buttons on the remote control unit or any of control keys on the PDP unit. Then the menu screen will appear again. Press the left or right button to deactivate the current mode.

It may take from several minutes up to several hours to remove the image sticking. If a fixed pattern is displayed for a long time, you can prevent the latent image by switching FULL WHITE to On for 2 or 3 minutes on a hourly basis.
The image sticking effect is influenced by the brightness of a fixed pattern and its display time. It is recommended that you reduce the level of the brightness by using picture controls (See page 36) when a fixed pattern is displayed for a long time.

WIPER

How To Directly Select Wiper : Press ⬭ button.

The image sticking (brightness degradation) is eliminated as white bars are moving in the right direction.

How to Freeze Picture

The user can temporarily stop the playing picture.

STILL

Press Still button.

Playing picture is stopped.
- Under multi-screen mode(PIP, TWIN), the main picture stops.

To deselect Still function.

Press Still button once more.

How to Set DPMS

When in PC mode, you can activate Power Saving mode.

MENU

Press Menu button.
Menu items appear on the screen.

```
                        FUNCTION
   ASPECT  RATIO      ◄        WIDE       ►
   KEY  LOCK          ◄        OFF        ►
   PIXEL  SHIFT       ◄        OFF        ►
   FULL  WHITE        ◄        OFF        ►
   DPMS               ◄        OFF        ►
   LANGUAGE           ◄      ENGLISH      ►
   IMAGE  ADJUST                ◄►
   CAPTION                      ◄►
   V-CHIP                       ◄►
   ◄► SELECT      ◆ MOVE      ☰ MENU
```

1 **P-CH ▲ P-CH ▼**

Press Up and Down buttons to move to "FUNCTION" icon.

2 **◄ ►**

Press Left and Right buttons to select "FUNCTION".

```
                        FUNCTION
   ASPECT  RATIO      ◄        WIDE       ►
   KEY  LOCK          ◄        OFF        ►
   PIXEL  SHIFT       ◄        OFF        ►
   FULL  WHITE        ◄        OFF        ►
   DPMS               ◄        ON         ►
   LANGUAGE           ◄      ENGLISH      ►
   IMAGE  ADJUST                ◄►
   CAPTION                      ◄►
   V-CHIP                       ◄►
   ◄► SELECT      ◆ MOVE      ☰ MENU
```

3 **P-CH ▲ P-CH ▼**

Press Up and Down buttons to move to "DPMS".

4 **◄ ►**

Press Left and Right buttons to "ON/OFF".

EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
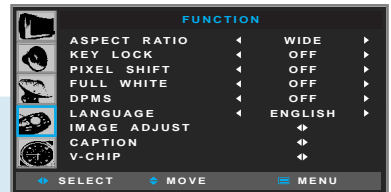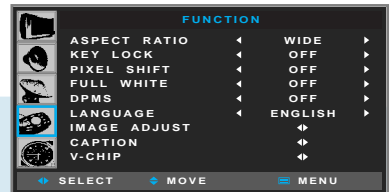If the EXIT button is pressed, the menu disappears.

TIP DPMS feature is available for PC mode only.

Choosing the Your Languages

When you start using your TV for the first time, you must select your language preference in order to display main menus and sub menues, etc.

MENU

Press Menu button.
Menu items appear on the screen.

```
                    FUNCTION
ASPECT RATIO        ◄      WIDE       ►
KEY LOCK            ◄      OFF        ►
PIXEL SHIFT         ◄      OFF        ►
FULL WHITE          ◄      OFF        ►
DPMS               ◄      OFF        ►
LANGUAGE            ◄     ENGLISH     ►
IMAGE ADJUST                 ◄►
CAPTION                      ◄►
V-CHIP                       ◄►
  ◄► SELECT     ◆ MOVE      ☰ MENU
```

1
P-CH ▲
P-CH ▼

Press Up and Down buttons to move to "FUNCTION" icon.

2
◄ ►

Press Left and Right buttons to select "FUNCTION".

```
                    FUNCTION
ASPECT RATIO        ◄      WIDE       ►
KEY LOCK            ◄      OFF        ►
PIXEL SHIFT         ◄      OFF        ►
FULL WHITE          ◄      OFF        ►
DPMS               ◄      OFF        ►
LANGUAGE            ◄     ENGLISH     ►
IMAGE ADJUST                 ◄►
CAPTION                      ◄►
V-CHIP                       ◄►
  ◄► SELECT     ◆ MOVE      ☰ MENU
```

3
P-CH ▲
P-CH ▼

Press Up and Down buttons to move to "LANGUGE".

4
◄ ►

Press Left and Right button, then the menu changes in order below.
↪English ↪ French ↪German ↪Spanish ↪Italian ↪

EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

How to Set Image Adjust in PC Mode

MENU

Press Menu button.
Menu items appear on the screen.

FUNCTION		
ASPECT RATIO	◄ WIDE	►
KEY LOCK	◄ OFF	►
PIXEL SHIFT	◄ OFF	►
FULL WHITE	◄ OFF	►
DPMS	◄ OFF	►
LANGUAGE	◄ ENGLISH	►
IMAGE ADJUST	◄►	
CAPTION	◄►	
V-CHIP	◄►	

◄► SELECT ◆ MOVE ☰ MENU

1 **P-CH ▲ P-CH ▼**

Press Up and Down buttons to move to "FUNCTION" icon.

2 ◄ ►

Press Left and Right buttons to select "FUNCTION".

FUNCTION		
ASPECT RATIO	◄ WIDE	►
KEY LOCK	◄ OFF	►
PIXEL SHIFT	◄ OFF	►
FULL WHITE	◄ OFF	►
DPMS	◄ OFF	►
LANGUAGE	◄ ENGLISH	►
IMAGE ADJUST	◄►	
CAPTION	◄►	
V-CHIP	◄►	

◄► SELECT ◆ MOVE ☰ MENU

3 **P-CH ▲ P-CH ▼**

Press Up and Down buttons to move to "IMAGE ADJUST".

4 ◄ ►

Press Left and Right buttons to select "IMAGE ADJUST".
Image adjust menu appears.

IMAGE ADJUST		
H POSITION		+000
V POSITION		+000
FREQUENCY		+000
PHASE		+000
AUTO ADJUST		

◄► SELECT ◆ MOVE ☰ MENU

5 **P-CH ▲ P-CH ▼**

Press Up and Down buttons to chosse Item.

6 ◄ ►

Press Left and Right buttons to adjust.

EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

HORIZONTAL POSITION : To adjust the horizontal position of the picture.

VERTICAL POSITION : To adjust the vertical position of the picture.

FREQUENCY : To adjust to reduce the noise on the picture.

PHASE : To adjust to eliminate the shake of the picture.

Auto ADJUST : Horizontal/vertical positions are automatically adjusted.

HYUNDAI Plasma Display

PC AUTO

How To Directly Select Auto Track : Press ⬭ button.

Automatically adjust Horizontal/Vertical position of the picture.

TIP

- This function is provided in only PC mode.
- When executing PC AUTO, optimum picture can be obtained if the setting is made under   the full pattern.
- You can store up to six modes by activating PC AUTO function.
  If you exceed six modes, the first stored mode information will be removed and a newly stored mode will be stored.

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreignlanguage translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most prerecorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging : CC

* The Caption feature does not work with DVD or DTV signals.

MENU	**Press Menu button.** Menu items appear on the screen.	**FUNCTION** ASPECT RATIO ◄ WIDE ► KEY LOCK ◄ OFF ► PIXEL SHIFT ◄ OFF ► FULL WHITE ◄ OFF ► DPMS ◄ OFF ► LANGUAGE ◄ ENGLISH ► IMAGE ADJUST ◄► CAPTION ◄► V-CHIP ◄► SELECT MOVE MENU
1 P-CH ▲ P-CH ▼	**Press Up and Down buttons to move to "FUNCTION" icon.**	
2 ◄ ►	**Press Left and Right buttons to select "FUNCTION".**	**FUNCTION** ASPECT RATIO ◄ WIDE ► KEY LOCK ◄ OFF ► PIXEL SHIFT ◄ OFF ► FULL WHITE ◄ OFF ► DPMS ◄ OFF ► LANGUAGE ◄ ENGLISH ► IMAGE ADJUST ◄► CAPTION ◄► V-CHIP ◄► SELECT MOVE MENU
3 P-CH ▲ P-CH ▼	**Press Up and Down buttons to move to "CAPTION".**	
4 ◄ ►	**Press Left and Right buttons to select "CAPTION".** Caption menu appears.	**CAPTION** CAPTION ◄ ON ► MODE ◄ CAPTION ► CHANNEL ◄ CHANNEL1 ► FIELD ◄ FIELD1 ► SELECT MOVE MENU
5 ◄ ►	Caption is highlighted. **Press Left and Right buttons to "ON/OFF".**	
	Press the Down button and then go to step 6 if you need to set the Mode.	**CAPTION** CAPTION ◄ ON ► MODE ◄ TEXT ► CHANNEL ◄ CHANNEL1 ► FIELD ◄ FIELD1 ► SELECT MOVE MENU
6 ◄ ►	**Press Left and Right buttons to select "TEXT or CAPTION".**	

Press the Down button and then go to step 7 if you need to depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field"

Continued on next page ......

...... Continued from previous page.

7 Press the UP/DOWN/LEFT/RIGHT button
to make the changes.

CAPTION		
CAPTION	◀ ON ▶
MODE	◀ TEXT ▶
CHANNEL	◀ CHANNEL2 ▶
FIELD	◀ FIELD1 ▶

SELECT MOVE MENU

8 *Follow the same procedure as in steps 6 above.*

CAPTION		
CAPTION	◀ ON ▶
MODE	◀ TEXT ▶
CHANNEL	◀ CHANNEL2 ▶
FIELD	◀ FIELD2 ▶

SELECT MOVE MENU

Press MENU button after the setting is done,
and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

TIP

Different channels and fields display information.
Field 2 carries additional information that supplements the information in Field 1.
(For example, channel 1 may have subtitles in English, while channel 2 has subtitles in spanish.)

FUNCTION SETUP

72

Using the V-Chip

The V-Chip feature automatically locks out programs that are deemed inapproprite for children.
The user must enter a PIN(Personal ID Number) before any of the V-chip restrictions are set up or changed.
*When the V-Chip feature is activated, the PIP features do not function.

MENU

Press Menu button.
Menu items appear on the screen.

FUNCTION		
ASPECT RATIO	◄	WIDE ►
KEY LOCK	◄	OFF ►
PIXEL SHIFT	◄	OFF ►
FULL WHITE	◄	OFF ►
DPMS	◄	OFF ►
LANGUAGE	◄	ENGLISH ►
IMAGE ADJUST		◄►
CAPTION		◄►
V-CHIP		◄►

◄► SELECT ◆ MOVE ≡ MENU

1 P-CH▲ P-CH▼

Press Up and Down buttons to move to "FUNCTION" icon.

2

Press Left and Right buttons to select "FUNCTION".

FUNCTION		
ASPECT RATIO	◄	WIDE ►
KEY LOCK	◄	OFF ►
PIXEL SHIFT	◄	OFF ►
FULL WHITE	◄	OFF ►
DPMS	◄	OFF ►
LANGUAGE	◄	ENGLISH ►
IMAGE ADJUST		◄►
CAPTION		◄►
V-CHIP		◄►

◄► SELECT ◆ MOVE ≡ MENU

3 P-CH▲ P-CH▼

Press Up and Down buttons to move to "V-CHIP".

4
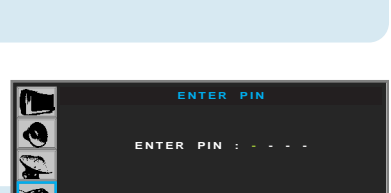
Press Left and Right buttons to select "V-CHIP".
The message "Enter PIN" will appear.

ENTER PIN

ENTER PIN : - - - -

◄► SELECT ◆ MOVE ≡ MENU
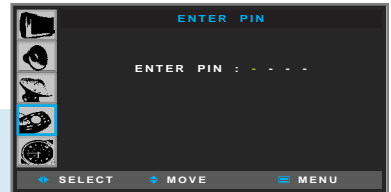
5

Enter you 4-digit PIN number.
The defualt PIN number of a new TV set is "0-0-0-0".
The "V-Chip" Screen will appear.

6 P-CH▲ P-CH▼

Press Up and Down buttons to move to "CHANGE PIN",

FUNCTION		
V-CHIP	◄	OFF ►
TV GUIDE		
MAPP		
CHANGE PIN		

◄► SELECT ◆ MOVE ≡ MENU
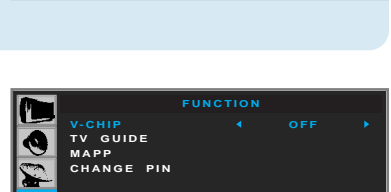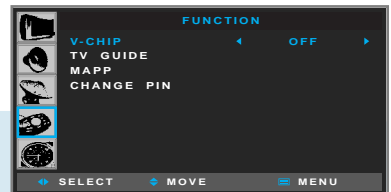
7

Press Left and Right buttons to select "CHANGE PIN".
The change PIN screen will appear.

8
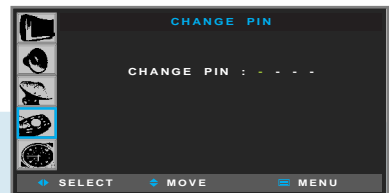
Chooose any 4-digits for your PIN and enter them.
As soon as the 4-digits are entered, the "Confirm New PIN" screen appears.

CHANGE PIN

CHANGE PIN : - - - -

◄► SELECT ◆ MOVE ≡ MENU

FUNCTION SETUP

...... Continued from previous page.

```
                              CONFIRM  PIN

                 CONFIRM  PIN  :  -  -  -  -



    SELECT        MOVE           MENU
```

9

Re-enter the same 4 digits.
When the confirm screen disappears,
your PIN has been memoriged.
V-CHIP is highlighted.

Go to step 10, if you need to set restrictions using the "TV Guideline".

TIP

If you foget the PIN, Press the remote-control buttons in the following sequence,
which resets the PIN to "0-0-0-0".

                 MENU + MTS + SLEEP + INFO (On the Remote Control)

⚠ This message should be printed on a separate page of paper or on a page of the manual that can be removed
by a parent and put in a safe place where the children cannot find this message!!

Parental Restrictions can be set up using either of
two methods : The TV guidelines or the MPAA rasting.

```
                              FUNCTION
    V-CHIP                  ◄        ON        ►
    TV  GUIDE
    MAPP
    CHANGE  PIN



    SELECT        MOVE           MENU
```

10

Press Left and Right buttons to "ON/OFF".

11

**Press Up and Down buttons to move to
"TV GUIDE".**

```
                              TV  GUIDE
                     ALL   FV   V   S   L   D
    TV-Y        U
    TV-Y7       U     U
    TV-G        U
    TV-PG       U              U   U   U   U
    TV-14       U              U   U   U   U
    TV-MA       U              U   U   U
    B  :  BLOCK       U  :  UNBLOCK
    SELECT        MOVE           MENU
```

12

Press Left and Right buttons to select "TV GUIDE".
TV Guide menu appears .

13

**Press the Up and Down button to select
one of the six age-based categories.**

TV-Y : Young children	**TV-PG** : Parental guidance
TV-Y7 : Children 7 and over	**TV-14** : Viewers 14 and over
TV-G : General audience	**TV-MA** : Mature audience

Continued on next page ......

FUNCTION SETUP

14

At this point, one of the TV-Guidelines is selected.
Press the right button : Depending on your exiting setup, a letter "U" or "B" will start blinking.
(U=Unblocke, B=Blocked)

15

Whlie the "U" or "B" is blinking, **press the Up and Down button** to block or Unblock the category.
Press the Right button to save the TV-Guidelines.
A TV-Rating will selected, and no letters will blink.
To select a differnt TV-Rating, **press the Up and Down button and them repeat the process.**

Note 1 : The TV-Y7, TV-PG, TV-14 and TV-MA have additional options.
See the next step to change any of the following sub-ratings:

FV : Fantasy violence   **L : Adult Language**   **V : Violence**

D : Sexually Sugessive Dialog   **S : Sexual situation**

Note 2 : The V-Chip will automatically block certain categories that are "more restrictive".
For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked.
Similarly, if you block the TV-G category, then all the categories in the "young adult"
group will be blocked (TV-G, TV-PG, TV-14 and TV-MA).
The sub-ratings (D, L, S, V) work together similarly. (See next section.)

Go to step 16, if you need to set FV, D, L, S and V sub-ratings.

16

First, select one of these TV-Ratings :
TV-Y7, TV-PG, TV-14 or TV-MA (See Step ~, on previous page).

17

Next, while the TV-Rating is selected, **repeatedly press the RIGHT button**.
This will cycle through the available sub-ratings (FV,L, S, D or V).
A blinking letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is
blinking, **press the UP or DOWN button** to change the sub-rating.

18

Press the RIGHT button to save the TV guidelines. A TV-Rating will be selected and no
letters will select. To select a different TV-Rating, **press the UP or DOWN button and then
repeat the process**.

Note : The V-chip will automatically block certain categories that are "More restrictive".
For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14
and TV-MA will automatically be blocked.

FUNCTION SETUP

Clock Setup

How to Set Clock

You can set the current time so that it may be displayed by pressing the "INFO" button. You must also set a clock if you wish to use the automatic on or off timers.
Ex) To set to 6:30 PM,

MENU

Press Menu button.
Menu items appear on the screen.

```
                    TIME
CLOCK        --:--      AM
ON TIME                 ◄►
OFF TIME     --:--      AM    OFF
SLEEP                   OFF

◄► SELECT    ♦ MOVE         ☰ MENU
```

1 Press Up and Down buttons to move to "TIME" icon.

2 Press Left and Right buttons to select "TIME".

```
                    TIME
CLOCK        --:--      AM
ON TIME                 ◄►
OFF TIME     --:--      PM    OFF
SLEEP                   OFF

◄► SELECT    ♦ MOVE         ☰ MENU
```

3 Press Up and Down buttons to move to "CLOCK".

4 Press Left and Right buttons to select "CLOCK".
Press the button a second time to move to "HOUR".

```
                    TIME
CLOCK        6:--       AM
ON TIME                 ◄►
OFF TIME     --:--      AM    OFF
SLEEP                   OFF

◄► SELECT    ♦ MOVE         ☰ MENU
```

5 Press Up and Down buttons to set to "6".

6 Press Left and Right buttons to move to "MINUTE" unit.

```
                    TIME
CLOCK        6:30       AM
ON TIME                 ◄►
OFF TIME     --:--      AM    OFF
SLEEP                   OFF

◄► SELECT    ♦ MOVE         ☰ MENU
```

7 Press Up and Down buttons to set to "30".

8 Press Left and Right buttons to move to "AM/PM".

```
                    TIME
CLOCK        6:30       PM
ON TIME                 ◄►
OFF TIME     --:--      PM    OFF
SLEEP                   OFF

◄► SELECT    ♦ MOVE         ☰ MENU
```

9 Press Up and Down buttons to set to "PM".

Press the Right button and then go to step 10 if you need to set on time.

How to Set On Time

This function allows you to automatically turn on your PDP at the preset time.
Ex) To set to 7:20 AM,

10 Press Up and Down buttons to move to "ON TIME".

```
            TIME
CLOCK          6 : 30      PM
ON  TIME                   ◆
OFF TIME       – – : – –    PM     OFF
SLEEP                      OFF
◆ SELECT    ◆ MOVE    ☰ MENU
```

11 Press Left and Right buttons to select "ON TIME".
On Time menu appears.
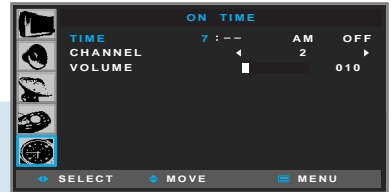
12 Press Left and Right buttons to select "TIME" to move to "HOUR".

```
            ON  TIME
TIME           7 : – –     AM     OFF
CHANNEL             ◀   2   ▶
VOLUME                      010
◆ SELECT    ◆ MOVE    ☰ MENU
```
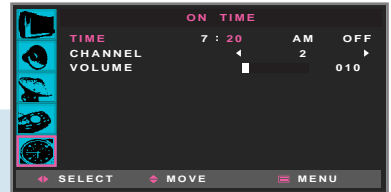
13 Press Up and Down buttons to set to "7".

14 Press Left and Right buttons to move to "MINUTE" unit.

```
            ON  TIME
TIME           7 : 20      AM     OFF
CHANNEL             ◀   2   ▶
VOLUME                      010
◆ SELECT    ◆ MOVE    ☰ MENU
```

15 Press Up and Down buttons to set to "20".

16 Press Left and Right buttons to move to "AM/PM".

```
            ON  TIME
TIME          07 : 20      AM     OFF
CHANNEL             ◀   2   ▶
VOLUME                      010
◆ SELECT    ◆ MOVE    ☰ MENU
```

17 Press Up and Down buttons to set to "AM".

CLOCK SETUP

78

...... Continued from previous page. (Set the volume level and channel at the time when your PDP turns on.)

18 Press Left and Right button to move to
"ON/OFF".

```
              ON  TIME
TIME            7 : 20      AM      ON
CHANNEL                  ◄      2      ►
VOLUME               ■              010

◄► SELECT      ▲▼ MOVE           ≡ MENU
```
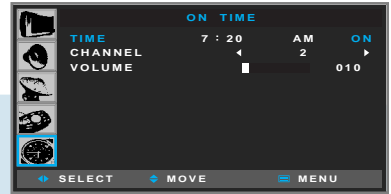
19 Press Up and Down buttons to set to
"ON".

*Press the Right button and then go to step 20
if you need to set the Channel/Volume.*

```
              ON  TIME
TIME            7 : 20      AM      ON
CHANNEL                  ◄      2      ►
VOLUME               ■              010

◄► SELECT      ▲▼ MOVE           ≡ MENU
```

20 Press Up and Down buttons to move to
"CHANNEL".

21 Press Left and Right buttons to set to
"Channel".

```
              ON  TIME
TIME            7 : 20      AM      ON
CHANNEL                  ◄      15     ►
VOLUME               ■              010

◄► SELECT      ▲▼ MOVE           ≡ MENU
```

22 Press Up and Down buttons to move to
"VOLUME".

23 Press Left and Right buttons to adjust.

```
              ON  TIME
TIME            7 : 20      AM      ON
CHANNEL                  ◄      15     ►
VOLUME                  ■           025

◄► SELECT      ▲▼ MOVE           ≡ MENU
```
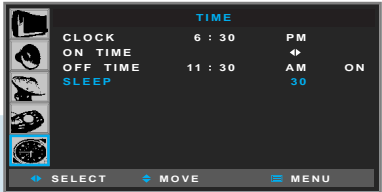
EXIT Press MENU button after the setting is done,
and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

TIP
Regardless of which Input Mode you set On Time in, your PDP will turn on in TV Mode only.

How to Set Off Time

This function allows you to automatically turn off your PDP at the preset time.
Ex) To set to 11:30 PM,

MENU

Press Menu button.
Menu items appear on the screen.

```
                        TIME
        CLOCK          6 : 30      PM
        ON  TIME                   ◆
        OFF  TIME      — — : — —   AM    OFF
        SLEEP                      OFF

    SELECT      MOVE        MENU
```

1 P-CH ▲ P-CH ▼

Press Up and Down buttons to move to "TIME" icon.

2 ◀ ▶

Press Left and Right buttons to select "TIME".

```
                        TIME
        CLOCK          6 : 30      PM
        ON  TIME                   ◆
        OFF  TIME      — — : — —   AM    OFF
        SLEEP                      OFF

    SELECT      MOVE        MENU
```

3 P-CH ▲ P-CH ▼

Press Up and Down buttons to move to "OFF TIME".

4 ◀ ▶

Press Left and Right buttons to select "OFF TIME" to move to "HOUR" unit.

```
                        TIME
        CLOCK          6 : 30      PM
        ON  TIME                   ◆
        OFF  TIME      11 : — —    AM    OFF
        SLEEP                      OFF

    SELECT      MOVE        MENU
```

5 P-CH ▲ P-CH ▼

Press Up and Down buttons to set to "11".

6 ◀ ▶

Press Left and Right buttons to move to "MINUTE" unit.
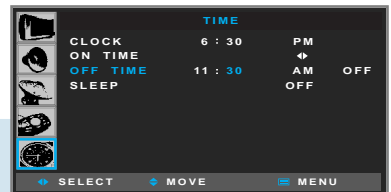
```
                        TIME
        CLOCK          6 : 30      PM
        ON  TIME                   ◆
        OFF  TIME      11 : 30     AM    OFF
        SLEEP                      OFF

    SELECT      MOVE        MENU
```

7 P-CH ▲ P-CH ▼

Press Up and Down buttons to set to "30".

8 ◀ ▶

Press Left and Right buttons to move to "AM/PM".

```
                        TIME
        CLOCK          6 : 30      PM
        ON  TIME                   ◆
        OFF  TIME      11 : 30     PM    OFF
        SLEEP                      OFF

    SELECT      MOVE        MENU
```

9 P-CH ▲ P-CH ▼

Press Up and Down buttons to set to "PM".

CLOCK SETUP
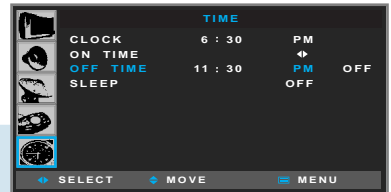
10 Press Left and Right button to move to "ON/OFF".

11 Press Up and Down buttons to set to "ON".

	TIME		
CLOCK	6 : 30	PM	
ON TIME		◆	
OFF TIME	11 : 30	PM	ON
SLEEP		OFF	

SELECT   MOVE   MENU
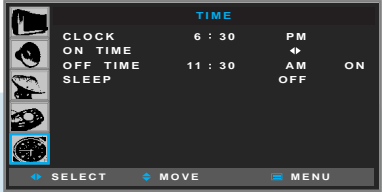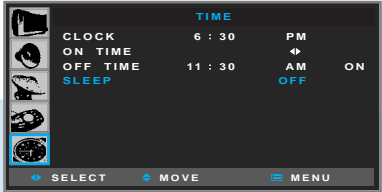
EXIT

Press MENU button after the setting is done, and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

How to Set Sleep Time

This function allows you to automatically turn off your PDP after a designated amount of time.

MENU

Press Menu button.
Menu items appear on the screen.

```
                              TIME
        CLOCK            6 : 30       PM
        ON  TIME                      ◆▶
        OFF  TIME       11 : 30      AM      ON
        SLEEP                        OFF


   ◆▶ SELECT      ◆ MOVE           ≡ MENU
```

1

P-CH ▲
P-CH ▼

**Press Up and Down buttons to move to
"TIME" icon.**

2

◀ ▶

**Press Left and Right buttons to select
"TIME".**

```
                              TIME
        CLOCK            6 : 30       PM
        ON  TIME                      ◆▶
        OFF  TIME       11 : 30      AM      ON
        SLEEP                        OFF


   ◆▶ SELECT      ◆ MOVE           ≡ MENU
```

3

P-CH ▲
P-CH ▼

**Press Up and Down buttons to move to
"SLEEP".**

4

◀ ▶

**Press Left and Right buttons, then the menu
changes in order below. (Unit : Minute)**
⇨OFF ⇨30 ⇨60 ⇨90 ⇨120 ⇨240 ⇨

```
                              TIME
        CLOCK            6 : 30       PM
        ON  TIME                      ◆▶
        OFF  TIME       11 : 30      AM      ON
        SLEEP                        30


   ◆▶ SELECT      ◆ MOVE           ≡ MENU
```

EXIT

Press MENU button after the setting is done,
and Menu goes to the previous menu.
If the EXIT button is pressed, the menu disappears.

How To Directly Start Sleep : Press   SLEEP   **button.**

Press sleep button, then the setting changes in order below. (Unit : Minute)
⇨OFF ⇨30 ⇨60 ⇨90 ⇨120 ⇨240 ⇨

TIP   One minute before the preset Sleep Time, "Power off in a minute" message will appear.

CLOCK SETUP

Appendix

Glossary

Component video	Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S-VIDEO by splitting chrominance into two separate portions.
Composite video	Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.
S-VIDEO	S VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S-VIDEO provides better resolution than composite video, which carries the signals together.
Full Scart	SCART connectors used with many European video equipments is designed to carry composite video and RGB video signals. If the equipment which outputs picture outputs RGB-signal, it will putput RGB signal from the RGB pins and a complete composite video signal at the same time.
Half Scart	Basically is the same as Full Scart in function but does not support RGB Video signals.
480i	Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.
480p	Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
720p	Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
1080i	Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).
Digital television (DTV)	A new technology for transmitting and receiving broadcast television signals. DTV provides higher resolution and improved sound quality over analog television.
HDTV(High Definition TV)	HDTV is a new kind of digital TV, creating a high quality picture, high definition. The HDTV provides a theater-like screen with an aspect ratio of 16:9. Supports 480p or higher.
SDTV(Standard Definition TV)	SDTV is a new kind of standard definition digital TV, having a range of lower resolution than the HDTV. Supports 480i.
Satellite Broadcasting	Provides crisp picture and clear audio quality throughout the country via a satellite.
Cable Broadcast Receiver (Converter)	A device that receives cable broadcasting. Connecting it to your TV set allows you to watch a various channels.

VHF/UHF   VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.

DVD   DVD (digital versatile disc) is an optical disc that can store a huge volume of multimedia such as video, game, and audio application, etc.

DVI   DVI (Digital Visual Interface) is a specification for digital signasl. This interface using TMDS transmission reduces the loss of signal, allowing to enjoy a clear and crisp image. There are DVI-D connection, designed for digital signals, and DVI-I connection, designed for both analog and digital signals.

Coaxial Cable   Coaxial cable is the kind of rounded copper cable, which is generally used for TV antenna.

LNA (Low-Noise-Amplifier)   Satellite applied technology. It is capable of amplifying weak signals so that any area experiencing a signal interruption may enjoy a clearer picture quality.

Aspect ratio   Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.

PIP (Simultaneous Screen)   PIP allows you to view two images at the same time in a single screen.

SWAP   PIP function provides a main picture (larger image) and sub-picture (smaller image). The SWAP is designed to swap the sub-picture for the main picture. For example, while you are watching a main picture on TV and watching a sub-picture on VCR, you can instantly switch the two pictures by using the SWAP function.

Picture Mode   Picture Mode features the optimal picture quality. There are Standard-Dynamic-Movie-Mild-User features in order. "User Control" allows you to adjust Contrast, Brightness, Sharpness, Color and Tint.

Sound Mode   Sound Mode features the optimal sound quality. There are Standard-Music-Movie-News-User features in order. "User Control" allows you to adjust high frequency sound, middle frequency sound and low frequency sound.

Channel Tuning   The feature allows you to enjoy optimal broadcasting. This product provides automatic tuning feature for the best broadcasting status. You can tune the channels manually.

SRS WOW   A well-recognized 3D sound technology developed by US SRS Labs, Inc. This technology delivers the ultimate audio experience only with two speakers as if through multi-channel speakers.

Subwoofer Output   Designed to improve ultra low frequency with about 150Hz. Installation of a sub woofer with a built-in amplifier is necessary.

APPENDIX

Troubleshooting

Installation Problems

Symptom	Possible solution
How can I install an antenna?	Refer to pages 23~24.
TV screen is not clear after installing an indoors antenna.	Indoors antenna may experience poor reception due to surrounding buildings. Please install an outdoors antenna or wireless antenna.
How can I view cable broadcasting?	Please install a cable broadcasting receiver (Converter).

Picture Problems

Symptom	Possible solution
Neither picture nor sound comes up.	Check whether power is on. Check whether the power is cut or whether power cord is properly connected. Try to plug another product's power cord to the outlet the PDP is plugged into.
Picture turns on slowly after power is on.	This symptom is not a malfunction. This delay is designed to prevent the distorted and noisy picture when power is on. However, if the picture does not appear more than 5 minutes after power is on, call a service center.
Vertical and horizontal lines and web patterns briefly appear on the picture and shake.	This symptom may be caused by interference from other electric appliances. Please avoid using a cordless phone, hairdryer, and electric drill, etc.
Input Source information only appears on black screen.	Check whether your TV is properly connected to external devices.
Poor reception on some channels.	Check whether you selected proper channels. Try re-orienting your antenna. Ensure LNA is activated.
Black and white on some channels.	Check other channels for black and white screen. Adjust colour.
TV won't turn on.	Ensure the power cord is plugged.
Screen is too bright or too dark.	Adjust brightness.

Auto On does not work.	Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.
After setting the time, I turned TV off and turn it on. The programmed information has been erased.	Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

Sound Problems

Symptom	**Possible solution**
Too much noise occurs.	Check whether the audio setting is in the Stereo mode. In the Stereo mode, the sound may be distorted in the area where experiences poor reception or is located far away from a TV broadcasting station.
No sound while viewing a cable channel	Make sure an audio or audio/video component is securely inserted into the appropriate jacks. Check other channels for sound. Check the volume settings on the cable broadcasting receiver.
Picture is OK but sound does not come out.	Try to press volume up/volume down buttons of your remote control.
One of the speakers does not produce sound.	Select sound balance and make proper adjustment. (Page 48) Check the speaker connection cables.

General

| **Symptom**	**Possible solution**
Remote control won't work.	Check whether there is a blocking object between the remote control and PDP. Make sure your LCD TV is Power On. (In case of normal, LED on the front panel is in Red.) Check whether batteries are inserted with proper polarities(+, -). When the batteries are worn out, replace with new ones.
Where does the S-Video cable plug in for audio output?	Connect the two Audio jacks from the S-Video cable to the left and right ports on the Composite.
Strange noises are heard.	Ticking noise during or after watching is caused by the change of ambient environment such as humidity and temperature, which is characterized by plastic products. Strange ticking noise occurs because a signal is suddenly transmitted to the PDP panel. So, this is not a malfunction.
I tried to use the TV screen as a PC monitor but it doesn't work.	Adjust the resolution referring to the standard signal mode table. Check the specification of your video card installed in your PC. If your video card does not work in supported hardware. Try upgrading the video card's driver.

APPENDIX

Care and Cleaning

Cabinet Cleaning

Wipe a soft dry cloth.

Do not use inflammables like Benzene or Thinner, or wet clothes.
Do not scratch the panel of PDP with a fingernail or pointed object.
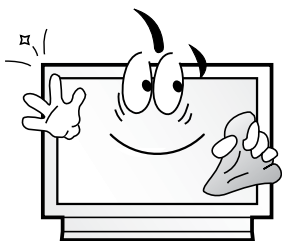
Screen Cleaning

Clean the screen with a soft cloth moistened in mild glass detergent and dry with a soft cloth.

Never use any solvent on the screen such as Acetone, Benzene, or Thinner, etc.

Cleaning Inside

When the inside needs to be cleaned, contact a service center or distribution agent where the item is purchased.

It is recommended cleaning is complete before the rainy season.

Product Specifications

Display (PDP TV)

MODEL	HQP421SR	HQP421HR	HQP501HR
Pixel	852(H) x 480(V)	1024(H) x 768(V)	1024(H) x 768(V)
Width	1030 mm		1208 mm
Height (Excluding stand)	631 mm		724 mm
Height (Including stand)	717 mm		809.5 mm
Depth	79 mm		79 mm
Weight (With Package)	32 kg		54 kg
Weight (Net Product)	26 kg		43 kg
Power	100 - 240V AC 50/60Hz		
Colors	16,770,000 colors(256 colors for each R, G, B)		
Use Temperature	$0^0 \sim 40^0 C$		
Use Humidity	Below 80%		
TV	2-Tuner Bulit In		

Speaker (Optional)

MODEL	PD421S	P501S
Dimensions(WxDxH)	120 x 79 x 631 mm	120 x 79 x 724 mm
Weight	2 kg x 2	1.5 kg x 2
Type	2 way 6 speaker system	
Cabinet	Base Reflex Type	
Impedance	8 Ω	
Allowable Input	Rated 8W (RMS)	
	Max. 10W(Music Peak Power)	
Frequency Response	120Hz ~ 20,000Hz (-10dB)	
Output Sound Pressure	87dB/W/m	

Service Center

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