20" HD-Ready Widescreen LCD TV

Model: FLM-201TM



Polaroid

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Read these instructions carefully before operating your LCD TV.

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General Information

This wide active matrix TFT (thin film transistor) liquid crystal monitor is designed for use as a stand alone TV as well as a display device for video electronics appliances and personal computers.

Important Information

Warning: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.



Caution: To reduce the risk of electric shock, do not attempt to disassemble or modify this device. There are no user-serviceable parts inside. Refer any service issues to qualified service personnel.

Caution: FCC/ CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

WARNING:

Do not leave stationary images, patterns, or letterbox images on the screen for prolonged periods of time as this may result in permanent damage to the LCD panel. This type of damage is not covered under warranty. The following are examples of, but not limited to, potentially hazardous display output: side bar images, video game patterns, closed captioning, channel logos and letterbox black bars. To prevent this type of damage, it is recommended to display constantly moving images that fill the screen as often as possible.

According to industrial standards for LCD display technology; there are a certain number of allowable defective pixels. Although we produce panels with more than 99.9% active cells, there still may be some cells that do not produce light or remain constantly lit. For further information, please contact sales or technical support.

Thank You for Choosing This Product

Your new LCD TV was built utilizing the latest advancements in television technology. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

Safety Precautions

- 1. **Cleaning:** Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- 2. Water and moisture: Do not use the product near water or areas of high moisture content such as swimming pools, bathtubs or wet basements.
- 3. **Heat sources:** Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
- 4. For added protection during a lightning storm or for extended periods of non-use, unplug the power cord from the wall outlet and disconnect the antenna (if used). This will prevent damage to the product due to power line surges.
- 5. If an outside antenna is connected to the product, make sure the antenna is properly grounded so as to provide some protection against voltage surges. (Coaxial connector shielding from cable distribution system should be probably earthed.)



6. **Stand:** Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Use only mounting hardware recommended by the manufacturer.



- 7. Use care when moving the product on a rolling cart. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- 8. Ventilation: The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings as insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surfaces since they can block ventilation openings. This product was not designed to operate in an enclosed environment. Don't place the product in an enclosed space such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- 9. The LCD panel used in this product is made of glass. Therefore, it can break if the product is dropped or struck.
- 10. During the LCD panel lifespan it is normal for a few pixels to become defective. Non-active pixels may appear on the screen as fixed points of red, blue or green. Refer pixel policy questions to the reseller for further clarification on acceptable loss.
- 11. An outside antenna system should not be located in the vicinity of overhead power lines or other electrical conduits. When installing an outside antenna, use extreme caution to prevent the antenna from coming into contact with said items, as contact with them may be fatal.

Features

List of Features

Your TV is designed with the latest technology and is a high-performance unit that includes the following special features:

- Multiple input sources including Antenna terminal, D-SUB connector, DVI connector, Composite, S-Video, and Component ports.
- Easy-to-use remote control and on-screen-display (OSD) menu system.
- Fine-tuning control for the sharpest picture possible.
- > Built-in multi-channel sound decoder for stereo and bilingual broadcasts.
- Automatic channel program for up to 125 channels.
- Automatic sleep timer control from 10 to 120 minutes in 10-minute increments.
- Automatic Power Off feature after 10 minutes without a signal.
- Adjustable picture and sound settings that is stored in the TV's memory.
- Component video input for high definition TV programming (HDTV ready), resolution up to 720p, 1080i.
- > 1680 x1050 (16:10) Panel Resolution to display two A4 pages of texts side by side.
- Automatic Picture Control (APC) and Aspect Ratio Control (ARC) functions for end user customization of viewing preferences.

Ports



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Control Buttons

Function Key

These buttons control your TV's basic features, including the on-screen menu. To use advanced features, you must use the remote control.

POWER: turn the LCD-TV on or off.

SOURCE: select the input source (PC, DVI, AV, SV, YPBPR, TV).

MENU: display the main menu.

CHANNEL (down or up): change the channel.

VOLUME (+/-): increase or decrease the volume.

EXIT / ARC: sets up the aspect ratio of display (TV/Video source: Panorama, Normal, Full, Zoom1,

Zoom2; PC/DVI source: Full, Normal) or as exit function if OSD menu appear.



Accessories





User's manual

Remote control & Batteries (AAA x2)



Power Cord

Remote Control



Summary of Remote Control Buttons

Power control	
POWER button	Turns the TV on or off.
Selecting the primary signal source	
TV button	Switches to TV mode.
AV button	Switches to AV mode.
SV button	Switches to S-Video mode.
PC button	Switches to PC or DVI mode.
CV button	Switches to CV (component) mode, i.e. YPBPR.
Menu Settings	
MENU button	Display the on-screen menu.
ARC button (Aspect Ratio Control)	Toggle the picture mode between Full \rightarrow Zoom1 \rightarrow Zoom2 \rightarrow Normal \rightarrow Panorama. In PC/DVI mode, only has Full and Normal.
APC button (Automatic Picture Control)	Toggle screen luminosity between STANDARD, BRIGHT, MOVIE, and MANUAL modes.
EXIT/INFO button	Exit a menu or sub-menu if OSD appear.
MUTE button	Temporarily turns off the sound.
	Access menu items.
TV Changing Channels	
$CH \blacktriangle \mathbf{\nabla} button$	Press Up/ Down to change the channel.
0~9 ; +100 button	To manually select channels.
RTN button	Return to the previous viewed channel.
Sound Control	
VOL+ /- button	Increase / Decrease volume level.
MTS button	Cycle through Stereo, Mono or SAP (separate audio program) multi-channel sound services.
Other Function	
SLEEP button	Select a preset time for automatic power down.
EXIT/INFO button	Displays the current Channel/Input Source/Signal format if OSD disappear.
CC button	Displays the Closed Caption text / Press CC button to select TV Rating.

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* How to connect the Power Cord



Note: Always unplug the power cord from the TV set and power outlet when not using for a long period of time.



* How to connect to a PC via D-SUB & DVI

* How to connect to a Video Device via HDCP

This can be applied only if there is the HDCP (DVI) Output connector on the external device.



VIDEO DEVICE (ex. DVD Player or Set-top Box...)

- 1. Connect a HDCP or DVI cable between the DVI connector on the TV and the HDCP/DVI connector on the DVD player/ Set-top box.
- 2. Connect an audio cable between the PC AUDIO IN jack on the TV and AUDIO OUT jack on the DVD player or Set-top box.

* How to connect Video Device via general cable



Interface

A. General Adjustment

Turning the LCD TV On and Off

The power status light found in the lower right corner of the TV indicates the following:

Power On	 Green light
Power off	 Red light
Power Saving (PC mode)	 Amber light

Note: If "NO SIGNAL" appears for 10 minutes under TV or Video mode, the set will automatically power off.

Viewing the Menus and On-Screen Displays



1. Press the *MENU* button.

The main menu appears on the screen.



- 2. Press the ▲ or ▼button to select one of the menu options. Then press the ∢ or ► button to access the sub-menu.
- 3. Press the \blacktriangle or \blacktriangledown button to make adjustments.
- 4. Press the *EXIT/INFO* button to exit from the menu or Press the *MENU* to return to the previous screen.

Switching PC / Video / S-Video/ TV / Component Modes



Switching Language Modes



- 1. Press the *MENU* button to display **OSD** from the main menu.
- 2. Press the **Aor v**button to access **LANGUAGE** options.



3. Press the *d* or *b* button to select the desired language mode.
4. Press the *EXIT/INFO* button to exit from the menu or Press the *MENU* to return to the previous screen.

Setting the Sleep Timer



You can set the Sleep Timer to automatically turn off the LCD TV.

- 1. Press the SLEEP button to display the Sleep Timer screen.
- 2. Press the *SLEEP* button to set the sleep timer (in 10 minute increments).
 - 10 min →20 min → 30 min →40 min → 50 min → 60 min →70 min →80min →90min →100min →110min→120min→ OFF

Note:

- 1. The Sleep Timer screen automatically disappears in 10 seconds.
- 2. The TV will automatically power off if no signal is detected for 10 minutes.

Adjusting the Volume



Using Volume Control

Press the *VOL* (+) or *VOL* (-) button to increase or decrease the volume level.

Using Mute

At any time, you can temporarily turn off the sound by using the MUTE button.

- 1. Press the *MUTE* button and the sound turns off. A MUTE text will appear on the screen denoting the sound is muted.
- 2. Press *MUTE* again or the *VOL* (+) or *VOL* (-) button to return audio back to the previous level.

B. PC Mode Adjustment

Adjusting the Contrast & Black light Settings

Each viewing mode supports separate adjustments for back light and contrast levels. PC mode is best viewed with lower back light and contrast levels as compared to other modes.



ANALOG INPUT

- 1. Press the *PC* button to set the main display to PC mode. Press the *MENU* button to display **PC** from the main menu.
- 2. Press the \blacktriangle or \blacktriangledown button to access **PC** sub-menu.
- 3. Press the ◀ or ▶ button to select the settings for adjustment.
- 4. Press the *EXIT/INFO* button to exit from the menu or Press the *MENU* to return to the previous screen.



Adjusting Sound Settings



1. Press the *MENU* button to display **SOUND** from the main menu.

- a. ON For general use, like commercial advertisment, AVC can avoid the sound turns up or down suddenly.
- b. OFF– For special sound effect, like opera or symphony, volume can be performed in accordance with the orginal sound level.

Adjusting Equalizer setting



- 1. Press the *MENU* button to display **SOUND** from the main menu.
- 2. Press the ▲ or ▼buttons to select MODE and then press ◀ or ► buttons to choose EQ.
- 3. Press the ► button to select EQUALIZER sub-menu, and then press ▲ button to select modes (as below).
- 4. There are 6 EQUALIZER modes available: MANUAL, POP, JAZZ, VOICE, ROCK, CLASSIC



EQUALIZER:

- a. Selecting the **MANUAL** pre-set allows you to manually adjust the frequency response.
- b. Settings for POP, JAZZ, VOICE, ROCK and CLASSIC are pre-configured, so you can't change these settings. The frequency response are as below:

MANUAL:

POP:







VOICE:



ROCK:

CLASSIC:



C. General TV Mode Adjustment

Adjusting the TV settings



1. Press the *TV* button to set the main display to TV mode. Press the *MENU* button to display **TV CHANNEL** from the main menu



Choosing a Multi–Channel Sound (MTS) Soundtrack Depending on the particular program being broadcast, you can listen to Stereo, Mono or a Separate Audio Program. (SAP audio is usually a foreign-language translation).

AUTO SCAN	•		
FINE TUNE		ADD	
SOURCE	•	CATV	
MTS	•	STEREO	

Adjusting Picture Settings



 Press the *MENU* button to display **PICTURE** from the main menu. Then press the ▲ or▼ button to select PICTURE MODE option.



- 2. Press the \triangleleft or \triangleright button to enter the **USER** menu.
- 3. Press the ▲ or ▼button to select the desired item. Then press the ◄ or ▶ button to adjust ranges from minimum to maximum.
- 4. Press the *EXIT/INFO* button to exit from the menu or Press the *MENU* to return to the previous screen.

Memorizing Channels

Your TV can memorize and store all of the available channels for both standard broadcast (antenna) and cable channels. After the available channels are memorized press the or button to view stored channels. You can also view any channel (even non-memorized) by directly entering the channel digits via the remote control.

There are three steps to memorizing channels:

- 1. Selecting a TV signal input source
- 2. Memorizing the available channels (automatically)
- 3. Adding/Erasing channels (manually)

Selecting the TV Signal Source

Before your television can begin to memorize available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

- 1. Press the TV button to set the main display to TV mode. Press the *MENU* button to display TV from the main menu.
- 2. Press the \blacktriangle or \checkmark button to select the **SOURCE** option.

 Press the

 or ▶ button to select between Antenna, AIR, CATV, HRC , IRC source signals.





Storing Channels (Automatic Method)



- Press the *MENU* bottom to display **TV CHANNEL** from the main menu .Then press the ► button to select the AUTO SCAN option.
- 2. Press the \blacktriangle button to run through all of the available channels and store them in memory.
 - It may take a few minutes to acquire the available channels.





Changing Channels

This LCD TV tuner provides the ability to display up to 125 channels (1 to 125). To select a channel, enter the channel number using 1 to 3 digit numbers.



Using the Channel Buttons

1. Press the $CH \blacktriangle$ or $CH \checkmark$ button to change channels.

When you press the $CH \blacktriangle$ or $CH \blacktriangledown$ button, the channels move up or down sequentially. You will see all the channels that have been memorized, (the channels must be memorized). You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Enter the channel number using the numeric buttons to go directly to the channel desired.

For example, to go to channel 27, press "2"then "7". The TV will change to channel 27.

Using the direct access method you can access any available channel including non-memorized and erased channels. To select a channel over 100, press the +100 button. (For example, to go to channel 122, press "+100", then "2", and then "2").

Using Parent Control

The **Parent Control** feature allows you to block channels from being viewed unless an unlock PIN code is correctly entered.

Before Parent Control restrictions can be utilized, you must first create a PIN number.



4. Press the button to enter the **BLOCKING**

PASSWORD menu.

PASSWORD	

1. Press the *TV* button .

NUMERIC BUTTONS CONTROL BUTTON CONTROL UTTON CONTROL C

5. Enter your 4-digit PIN when you have finished entering the PIN. If the PIN is not correct, main menu will appear again.

NOTE: The factory default PIN code is 0000.

6. After entering a valid PIN number, the all of Parental Control sub options will appear. Press the ▲ or ▼ button to select the sub-menu.



1. Press the \triangleleft or \blacktriangleright button to select the **CHANGE PASSWORD.**



2. Press the \blacktriangle button to enter the **BLOCKING**

PASSWORD menu.



3. Enter your new 4-digit PIN XXXX, and the **BLOCKING CONFIRM** menu will be on the screen.

CONFIRM	

4. Enter the 4-digit PIN the same as step3 XXXX again, if the PIN is correct, **"OK"** will be on the screen.

If the PIN is not correct, main menu will appear again.

CONFIRM OK	

5. When you have finished entering the PIN, new

setting to be operation.

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4. Press the ► button to enter the **TV-RATING**, Rating menu will appear.

		adv.		E.		
						FUNCTION
	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	
CC KEY :		BLC	CK/	UNB	LOC	к
MOVE	-	4	SELE	ст	ſ	

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

ALL :

- **FV**: Fantasy violence
- \mathbf{V} : Violence
- \mathbf{S} : Sexual situation
- L : Adult language
- **D** : Sexual suggestive dialog

5. Press the CC key to select Content BLOCK or UNBLOCK.

6. Press the *EXIT/INFO* or *MENU* buttons to jump-out the setting menu. TV-Rating function is operation.

If the channel is set to a restricted channel, the parent control will automatically block it, and the BLOCK menu will appear:

TV-RATING TV-PG

PASSWORD _ _ _ _

Setting up restrictions using the "BLOCKING MOVIE" function.

The **MOVIE-RATING** option utilizes the Motion Picture Association of America (MPAA) ratings system for determining blocked programming. When the parent control lock is enabled, the TV will automatically block any programs that are coded with objectionable ratings.



If you want to disable the Parent Control , press the \triangleleft or \triangleright button to select the V-CHIP item to **OFF**. All locked channels will be released automatically.

If the channel is set to a restricted channel, the parent control will automatically block it, and the BLOCK menu will appear:

MOVIE-RATINGR

PASSWORD _ _

G	: General audience (no restrictions).
PG	: Parental guidance suggested.
PG-13	: Parents strongly cautioned.
R	: Restricted. Children under 17 should be accompanied
	by an adult.
NC-17	: Adults only under 17.
X	: No Children

Viewing Closed Captions

This LCD TV has the ability to decode and display closed caption content if supported by the program. These captions are usually used for the hearing impaired or for foreign language translations. Most VCR's can record the closed caption signal from television programs. Most pre-recorded commercial videotapes also provide closed captioning as well. Refer to the closed caption symbol within your television programming guide and on the videotape packaging in order to properly configure the closed captioning function:



4. Press the *EXIT/INFO* or *MENU* buttons to jump-out the setting menu. Closed-Caption function is operation.

D. Other Functions

1. CH ▲ / ▼:

Under TV mode, "CH \blacktriangle / \blacksquare " keys are for changing channels.

2. **VOL** +/ -:

Under any display mode, "**VOL** +/ -" are for adjusting sound volume.

- 3. ARC (Aspect Ratio Control):
- **Full :** Expands 4:3 video sources both vertically and horizontally to fill the entire screen while keeping the original aspect ratio..
- **Normal :** Sets the aspect ratio to 4:3. There will be black bars to the left and right sides of the image.
- **Panorama :** This mode expands the width of 4:3 video sources evenly to fill the 16:9 screen. There will be distortion as all four edges of the image are stretched, creating less distortion at the center of the screen.

Zoom 1: Extends the image height to fill the screen by stretching the image vertically.

Zoom 2: Same as "16:9 Zoom", but the button edge of the screen pulls up a little for the subtitle purpose.

(In PC mode, only has Full and Normal)

4. APC (Automatic Picture Control):

Automatic Picture Control allows you to easily set the screen luminosity based upon your environment. If in a well lit viewing area it may be necessary to turn up the screen intensity via the APC "BRIGHT" setting to make the image viewable. Likewise if in a dark viewing area it may be necessary to turn down the screen intensity via the APC "MOVIE" setting. Toggle the **APC** button to scroll through the four APC modes to select the mode that best suits your situation.

5. MTS (Multi-Television-Sound):

There are three supported MTS modes: "Mono", "Stereo" or "SAP" (Secondary Audio Program).

'This LCD TV has the ability to decode stereo or SAP broadcasts.

There is no picture or sound.

Make sur	e the AC adapter is connected.
Verify that	t there is a valid source signal.
Make sur	e the correct input mode is selected.
Make sur	e the master power switch has been turned on.

There is no picture from AV.



Make sure the BRIGHTNESS is properly adjusted. Make sure the video source is plugged into the composite video-in port.

There is no sound.



Make sure the volume is not set to minimum. Make sure the sound is not muted

There is no picture or sound, just noise.



The source signal may be weak. Your provider may be experiencing difficulties. Check your input connections.

Picture is not clear.



Picture is light or improperly tinted.



Check the Hue, Saturation and Color adjustments. Reset the TV to the factory default settings.

The picture is too dark.



Remote control does not work.



The picture is not sharp.



The signal source may be weak. The provider may be experiencing difficulties. Check input connections.

The picture moves.



The source signal may be weak. The provider may be experiencing difficulties. Check input connections.

The picture is doubled or tripled.



The source signal may be weak. Check input connections.

The picture is spotted.



There may be interference from other appliances nearby or around the LCD TV. There may be interference between the source cable and the power cable. Make sure they don't touch.

There are stripes on the screen or colors fade.



There may be interference from other appliances.

There may be interference between the video source cable and the power cable. Make sure the power and video cables are not touching. Check the Hue, Saturation and Color adjustments.

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PC / DVI Timing Table

Mode No.	Mode Name Resolution	H. Freq (KHZ) V. Freq (HZ)	H. Polarity V. Polarity	Pixel CLK (MHZ)	Hor. Total	Hor. Display	H. Back Porch	Hor. Sync Width	Ver Total	Ver. Displa y	V. Back Porch	Ver. Sync Width
1	VGA70HZ 640*350	31.469 70.087		25.175	800	640	48	96	449	350	60	2
2	VGA60HZ 640*480	31.469 59.941		25.175	800	640	48	96	525	480	33	2
3	VGA72HZ 640*480	37.804 72.81		31.5	832	640	128	40	520	480	28	3
4	VGA75HZ 640*480	37.5 75.0		31.5	840	640	120	64	500	480	16	3
5	SVGA60HZ 800*600	31.156 56.25		30.6	1024	800	128	72	625	600	22	2
6	SVGA60HZ 800*600	37.879 60.317		40.0	1056	800	88	128	628	600	23	4
7	SVGA72HZ 800*600	48.077 72.188		50.0	1040	800	64	120	666	600	23	6
8	SVGA75HZ 800*600	46.875 75.0		49.5	1056	800	160	80	625	600	21	3
9	XGA60HZ 1024*786	48.363 60.004		65.0	1344	1024	160	136	806	768	29	6
10	XGA70HZ 1024*786	56.476 70.069		75.0	1328	1024	144	136	806	768	29	6
11	XGA75HZ 1024*786	60.023 75.029		78.75	1312	1024	176	96	800	768	28	3
12	MAC VGA 640*480	35.0 66.667		30.24	864	640	96	64	525	480	39	3
13	WXGA 1280*768	47.73 60		80.0	1676	280	198	136	795	768	23	3
14	WXGA 1280*1024	47.7 60		85.5	1792	1360	256	112	795	768	18	6
15	WXGA60HA 1280*1024	63.98 60		108.0	1688	1280	248	112	1066	1024	38	3
16	WXGA60HA 1280*1024	79.976 75		135.0	1688	1280	248	144	1066	1024	38	3

HDCP Timing

Mode No.	Mode Name Resolution
1	480i
2	480p
3	720p
4	1080i

Specifications

	ITEMS	SPECIFICATION
Panel	Screen Size	20.1"/50,8 cm TFT-LCD Panel
	Aspect Ratio	16:9
	Resolution	1680 x 1050
	Display Area (opening) H x V	433.44 mm x 270.9 mm
	Pixel Pitch	0.258 mm x 0.258 mm
	Display colors	16,777,216 colors
	Contrast Ratio	600 : 1 (typ.)
	Brightness (center)	$300 \text{ cd} / \text{m}^2$ (typ.)
	Viewing Angle (CR>10)	140° Hor. / 125° Ver. (typ.)
	Response Time (GTG)	8 ms (typ.)
TV Function	Broadcasting System	NTSC M/N
	Receiving Channel	PLL 181Ch., CATV 125Ch.
	Sound System	MTS+SAP
	Data Broadcasting	Close Caption, V - Chip
Video Input	Composite Signal	CVBS
	Y, C Signal	S-Video
	Component Signal	Y Pb Pr (1080i,720p)
PC Input	DVI / HDCP Connection	DVI-D 24 pin x 1 (DVI 1.0 / HDCP 1.0)
	VGA Connection	D-Sub 15 pin x 1
	Scanning Frequency	$f_{\rm H} = 31.5 \sim 60 \text{KHz} / f_{\rm V} = 56 \sim 75 \text{Hz}$
Audio Input Audio Output		$\frac{1}{1} = 51.5 \sim 00 \text{KHz} / 1_V = 50 \sim 75 \text{Hz}$ $CVBS \& \text{S-Video}$
	Audio 1	
	Audio 2 Audio 3	Y Pb Pr
	Speaker (build-in)	PC 2.5W + 2.5W (rms) @THD < 10%
	Headphone	$\frac{2.5 \text{ w} + 2.5 \text{ w} (\text{IIIIS}) \text{@ I HD} < 10\%}{\text{Headphone Mini-jack } (3.5 \phi)}$
Feature	OSD Language	English, French, Spanish, Portuguese, Chinese
	Function Keys	Power, Source, Menu, Up/Down(Channel),
	Video Performance	+/-(Volume), Exit/ARC Comb-filter, De-interlace, Aspect Ratio Control (ARC), Auto Picture Control (APC).
	Audio Performance	Equalizer , Auto Volume Control (AVC)
	Other Control	Sleep Timer , Auto Power Off
Power	Power Supply	AC 100V ~ 240V, 50 / 60Hz
	Power Consumption	< 70 W
Dimension	W x H x D	523.5 x 433 x 212.5 (mm)
Weight (net)	Without Accessories	8.0 kg
Accessories	Remote Control, Batteries, AC Powe	er Cord .