

System Specifications

Features

This LCD TV was designed with the user in mind. Here are just a few of its many features:

Benefits

- ☐ Widescreen display with HDMI-/HD-ready display
- ☐ Four different picture-in-picture modes for simultaneous previewing of programs
- ☐ Remote control for ultimate convenience
- ☐ Gamma Correction for brilliant color
- ☐ 3D motion-adaptive de-interlacing for exquisite details up to 1080p
- ☐ DCTI, DLTi and 3D comb filtering for sharp and accurate images
- ☐ SRS WOW, BBE Digital and Dolby Digital audio technology for awesome audio performance
- ☐ Acer Empowering Technology for selecting and defining personalized user preferences
- ☐ Card reader for easy enjoyment of multimedia (for MGW models only)
- ☐ Integrated media gateway for playback of PC content and web radio (for MGW models only)

LCD Panel

- ☐ Max. resolution: 1366x768
- ☐ Display area: 32 inches diagonal/26 inches diagonal
- ☐ Display color: 16.7 M colors (8 real bits per color)
- ☐ Panel interfacer: 1-ch LVDS
- ☐ Contrast ratio: 800:1 (Typical)
- ☐ Brightness: 500 cd/m² (Typical)
- ☐ Response Time: 25ms
- ☐ Ultra wide viewing angle: 176° (H) / 176° (V) (CR>20)

I/O Functions

- | | |
|---------------------------|--|
| 1. RF | 75 ohms input, according to CE regulation |
| 2. AV (SCART input) | 2 RGB SCART
Input signals: RGB, S-Video, CVBS, Left Right, permitted to be used in RGB mode or CVBS mode
1 S-Video SCART
Input signals: S-Video, CVBS, Left Right, permitted to be used in CVBS mode or YC mode |
| 3. AV (SCART output) | Output signals: TV CVBS out, Left Right |
| 4. AV level compatibility | Video |

	Type: Polarity: Level: Impedance: Interface:	CVBS / Analog Positive 1Vp-p (with sync.) 75 omega +/- 5% <ul style="list-style-type: none"> • RCA jack, yellow color • Euro_SCART, black
	Type: Level: Impedance: Interface:	YC / Analog Y: 1Vp-p (with sync.) C: 0.286Vp-p 75 omega +/- 5% <ul style="list-style-type: none"> • mini-DIN jack, black color • Euro_SCART, black
	Type: Polarity: Level: Impedance: Interface:	RGB / Analog Positive 0.7Vp-p 75 omega +/- 5% Euro_SCART
	Type: Polarity: Level: Impedance: Interface:	YUV / Analog Positive Y: 1Vp-p (with sync.) C: 0.286Vp-p 75 omega +/- 5% <ul style="list-style-type: none"> • RCA jack • Y: green color • U: blue color • V: red color
	Type: Output level: Interface:	TV CVBS output / Analog 2Vp-p (with sync.) <ul style="list-style-type: none"> • RCA jack, yellow color • Euro_SCART, black
	Audio	
	Type: Level: Impedance: Interface:	PC line in (stereo R / L channels) 500 mVrms more than 220kohm 3.5mm stereo jack, bluish color
	Type: Level: Impedance: Jack:	Stereo R / L channels 500 mVrms more than 200k omega <ul style="list-style-type: none"> • RCA jack • Right: red color • Left: white color
	SPDIF output level: Jack:	400 mVrms RCA jack (orange)
5. AV (YC CVBS)	one input Input signals: CVBS, Left Right or YC Left Right	
6. Components	one input Input signals: YPbPr Left Right or YCbCr Left Right	

Format	Resolution	Type	Vertical frequency
480i	720 x 480	SD	59.940Hz, 60Hz
480p	720 x 480	SD	50Hz, 59.940Hz, 60Hz
576i	720 x 576	SD	50Hz
576p	720 x 576	SD	50Hz
720p	1280 x 720	HD	50Hz, 59.940Hz, 60Hz
1080i	1920 x 1080	HD	50Hz, 59.940Hz, 60Hz

7. HDMI one input

Format	Resolution	Type	Vertical frequency
VGA	640 x 480		59.94Hz, 60Hz
	800 x 600		60Hz, 72Hz, 75Hz
XGA	1024 x 768		60Hz, 75Hz.
480p	720 x 480	SD	50Hz, 59.940Hz, 60Hz
576p	720 x 576	SD	50Hz
720p	1280 x 720	HD	50Hz, 59.940Hz, 60Hz
1080i	1920 x 1080	HD	50Hz, 59.940Hz, 60Hz

8. DVI-D one input
Input signals DVI-D, Left Right (shared with VGA input)

NO	Timing	V-Freq(Hz)
1	720X400 (DOS)	70 Hz
2	640X480 (DOS)	60 Hz
3	640X480(VESA)	72 Hz
4		75 Hz
5		85 Hz
6	800X600(VESA)	56 Hz
7		60 Hz
8		72 Hz
9		75 Hz
10		85 Hz
11	1024X768(VESA)	60 Hz
12		70 Hz
13		75 HZ
14		85 Hz
15	1152 X864(VESA)	75 Hz
16	1280 X960(VESA)	60 Hz
17	1280 X1024(VESA)	60 Hz
18	1920 X 1080 (HD)	Interlace, 60Hz

9. VGA

one input
Input signal VGA, Left Right

NO	Timing	V-Freq(Hz)
1	640X350	85Hz
2	640X400	85Hz
3	720X400	85Hz
4	640X480	60Hz
5		72Hz
6		75Hz
7		85Hz
8	800X600	56Hz
9		60Hz

10		72Hz
11		75Hz
12		85Hz
13	1024X768	43Hz
14		60Hz
15		70Hz
16		75Hz
17	1024X768	85Hz
18	1152X864	75Hz
19	1280X960	60Hz
20	1280X1024	60Hz
21	1920 X 1080 (HD)	Interlace, 60Hz

- 10. Sound management in graphic** In HDMI, the audio source is inside the HDMI signal.
In VGA and DVI-D, the audio comes from the audio graphic connector.
- 11. EDID management** EDID data format version1.3
EDID update available from VGA plug, DVI, HDMI
- 12. Head phone** The user can adjust separately the headphone volume.
The load impedance is 32 ohms, with 0.5W max. output.
The audio signal can be any input source displayed in active window.
- 13. HIFI** On the HIFI outputs, the user can connect an external audio amplifier, the selected signal is the same as the loudspeaker.
The output level is 500mV RMS.
- 14. Loudspeakers** Max. audio input (at 10% THD max.) at 1.0Vp-p / 1KHz input: 10W + 10W
Sound distortion at 1W / 1KHz: 1% THD max.
Speaker: Two of 10W
Speaker impedance: 4 ohms at 1KHz
Residual hum at min. volume: 500uW max.
Max. hum at max. volume: 1000 uW max.

Mechanical

- ☐ Dimensions (W x H x D mm): 1185 x 724 x 285
- ☐ Weight (kg/lbs.): 36/79.4
- ☐ Wall-mounting holes 400mm x 200mm

Power Source

- ☐ Input voltage: 90 ~ 264 V, 47 ~ 63 Hz
- ☐ Standby consumption is under 5 Watts
- ☐ Power consumption is under 213 Watts

Speaker

- ❑ Internal speaker: 10 W * 2 stereo, volume adjustable

System Block Diagram

System Block and Wiring Diagram

LCD Main Board Block Diagram

Audio Board Block Diagram

Board Layout

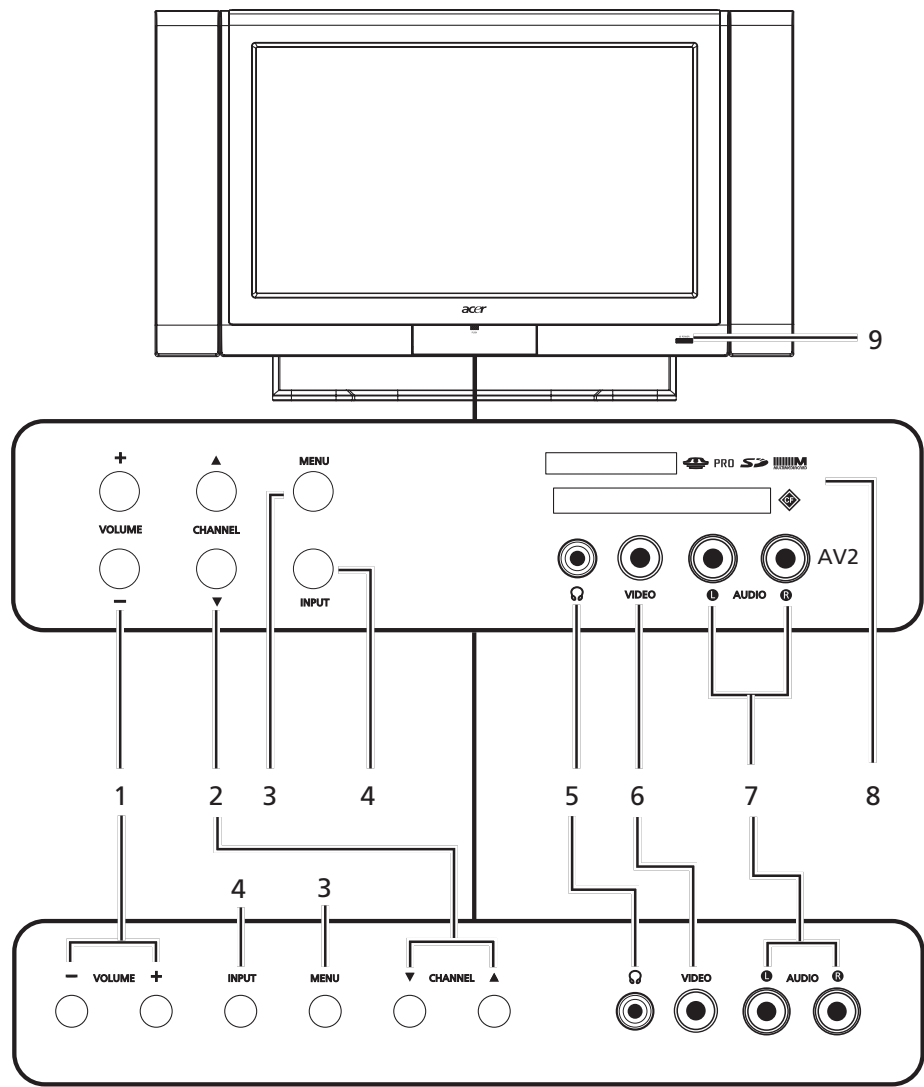
Board Layout is not ready as the service guide released.

LCD TV Overview

A general introduction to Acer LCD TV ports, functions and indicators.

Front panle view

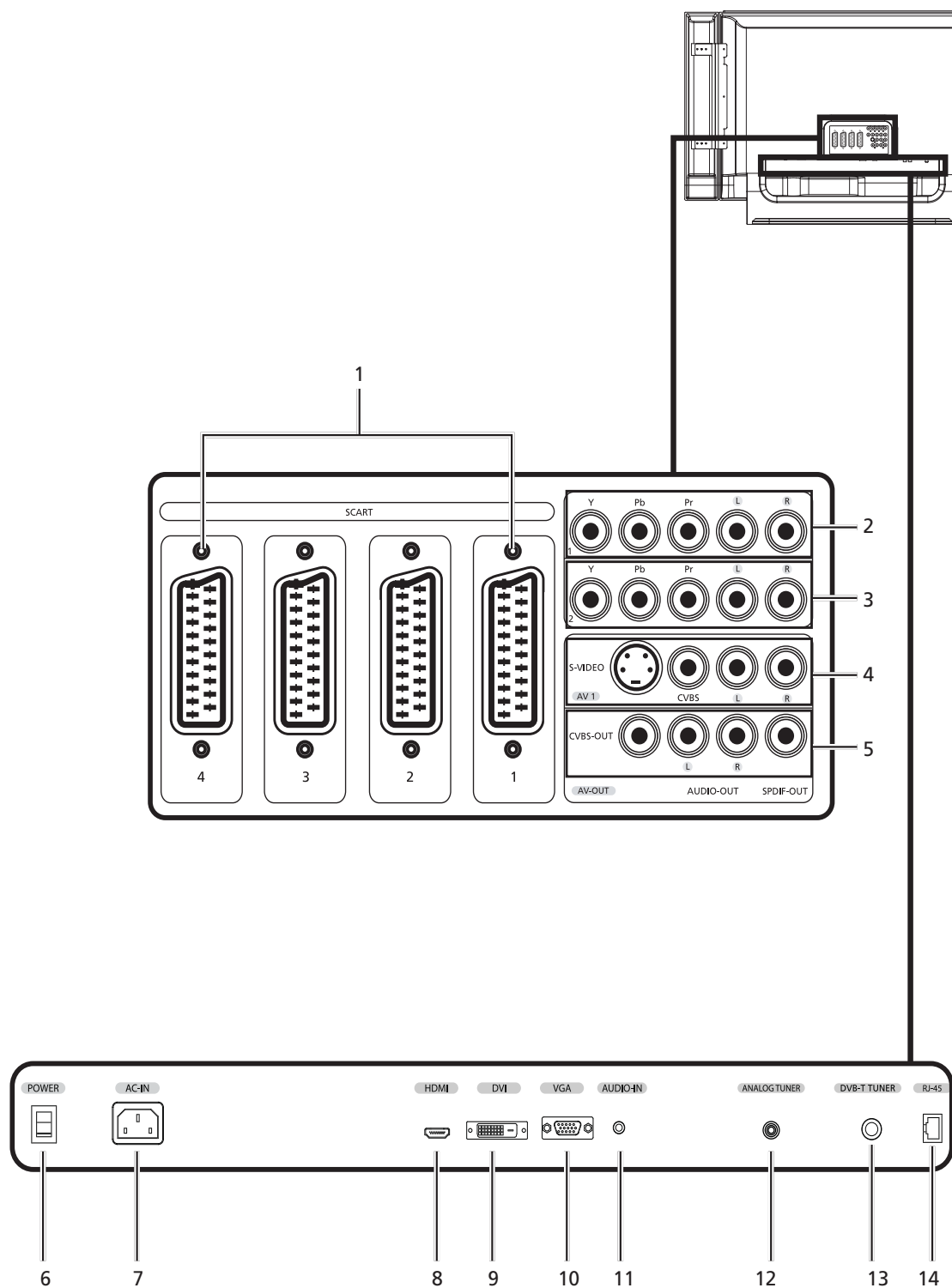
The panel view below are for AT3705-MGW/AT3705-DTVAT/3205-DTV/AT2605-DTV



#	Item	Description
1	Volume up/dow	Volumn up:When the OSD is on functions the same as the Right arrow Volumnn down:When the OSD is on functions the same as the Left arrow.
2	Input key	When the OSD is on, press this button to confirm selection.

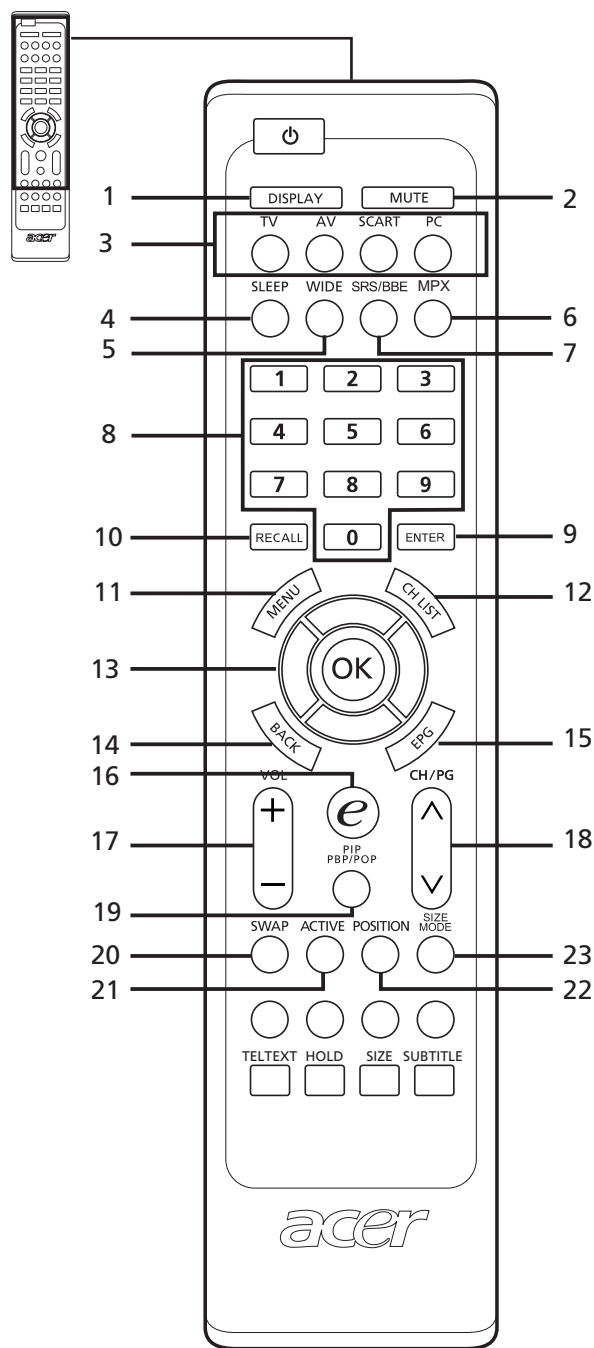
3	Menu key	Turns the OSD menu on and off.
4	Channel up/down	Channel Up:When the OSD is on functions the same as the Up arrow Channel down:When the OSD is on functions the same as the Down arrow
5	Headphone jack	Channel Down. When OSD is on: Also functins the sam as Down directional arrow.
6	Video jack	
7	Audio L/R jacks	Outputs audio signals to external audio devices such as headset.
8	Card reader	
9	Power ON/OFF	Power on/off the LCD TV.

Rear/Bottom panel view



#	Item	Description
Rear panel view		
1	SCART-in/out	SCART1/CVBS (in/out), S-video (in), RGB (in), Audio R/L SCART2/CVBS (in/out), S-video (in), Audio R/L SCART3/CVBS (in/out), S-video (in), RGB (in), Audio R/L SCART4/CVBS (in/out), S-video (in), Audio R/L (for AT3705 models only)
2	Component1-in	Select source. When OSD is on: Press this button to confirm selection.
3	Component2-in	(for AT3705 models only)
4	AV1-in	
5	AV-out	
Bottom panel view		
6	Power switch	
7	AC-in	
8	HDMI-in	
9	DVI-in	
10	VGA-in	
11	Audio-in	
12	Analog antenna-in	
13	DVB-T antenna-in	
14	RJ45	LAN in jack

Remote controller



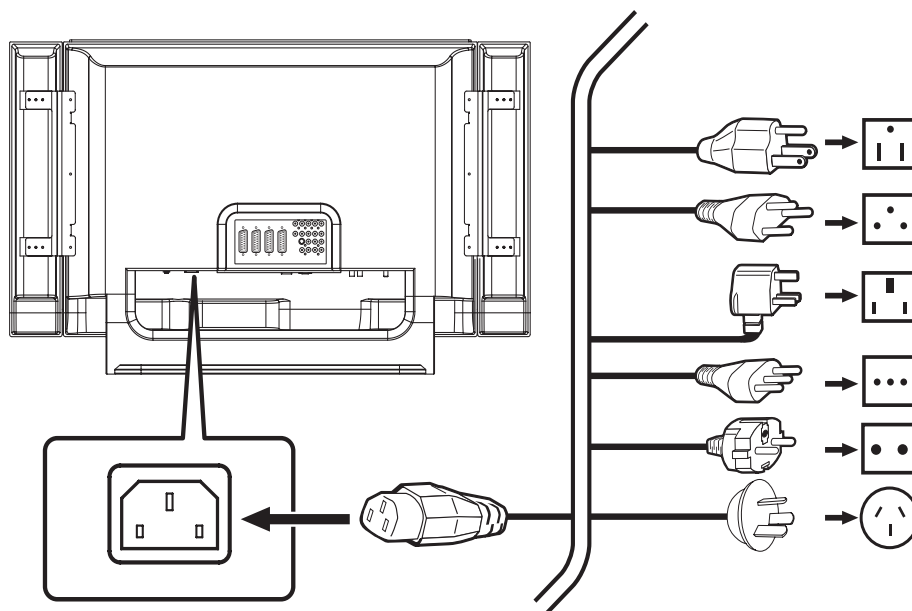
No.	Item	Description
1	DISPLAY	Press to display input/channel information (dependent on input/source type).
2	MUTE	Press to toggle audio on and off.
3	Input buttons (TV/AV/SCART/PC)	Press to select correct input mode.

4	SLEEP	Press to set a time period after which the TV will switch itself to standby (15, 30, 45, 60, 90 or 120 minutes).
5	WIDE	Press to toggle scaling mode between 4:3, 16:9, Panorama and Letterbot 1, 2, 3 mode.
6	MPX	Press to select the sound input, displayed in the top right-hand corner (mono, stereo, bilingual).
7	SRS/BBE	Press to toggle audio mode between Stereo, SRS and BBE modes.
8	Number keys	Press to select TV channels.
9	ENTER	Press to confirm channel number selection.
10	RECALL	Press to return to the previous channel.
11	MENU	Press to open or close the Menu.
12	CH List	Press to launch the channel list.
13	Directional keys/OK	
14	BACK	Press to return to previous screen.
15	EPG	Press to launch Electronic Program Guide (EPG) mode (Digital TV mode only).
16	e (Empowering Technology)	Press to activate Acer Empowering Technology.
17	VOL (+/-)	Press to increase or decrease the volume.
18	CH (up/down)	Press to sequentially select the TV channel.
18	PIP/PBP/POP	Press to toggle between PIP/PBP/POP modes.
20	SWAP	For PIP/PBP mode: Press to toggle between the primary and subscreens.
21	ACTIVE	Press to toggle between primary and subscreens.
22	POSITION	When in PIP mode: Change subscreen position.
23	SIZE/MODE	When in PIP mode: Change subscreen size. When in POP mode: Switch POP mode from 1+5 to 1+12.

Basic connection

Connecting the power cord

1. Connect the AC cord into the AC input on the back of the set.
2. Connect the male plug to the wall outlet as shown.



Connecting an antenna/cable

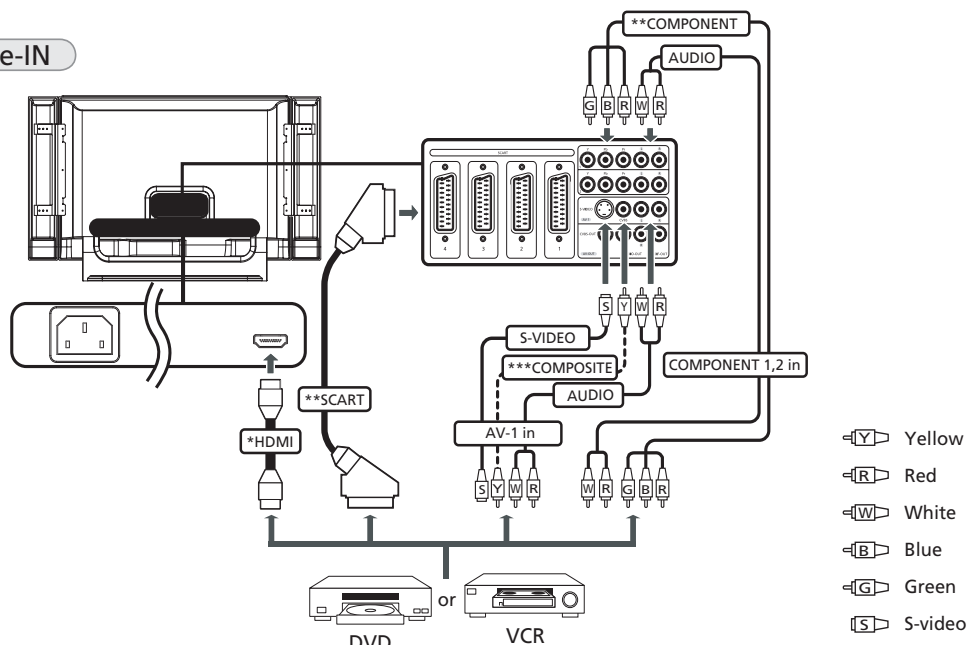
Connect the antenna cable to the appropriate antenna terminal on the back of the TV set as shown below.



Connecting a DVD, VCR or audio/video equipment

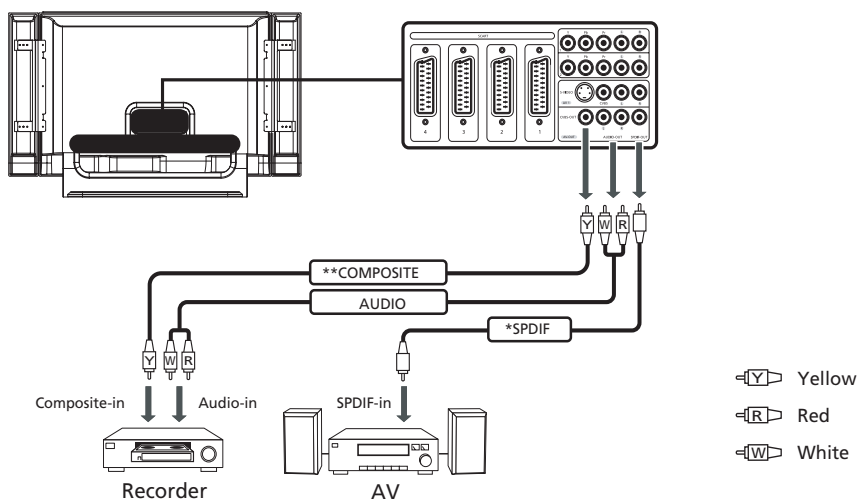
Connect your DVD player, VCR or audio/video equipment using the SCART port located at the rear of your LCD TV as shown below.

Source-IN



- * If your audio/video device is HDMI-ready, it is recommended that you use the HDMI cable. The HDMI port is located under the back panel of your TV, as shown above.
- ** Acer recommends the following priority for connection types: HDMI -> Component -> SCART -> S-video -> Composite.
- *** Use the composite cable if your equipment does not have S-video-out.

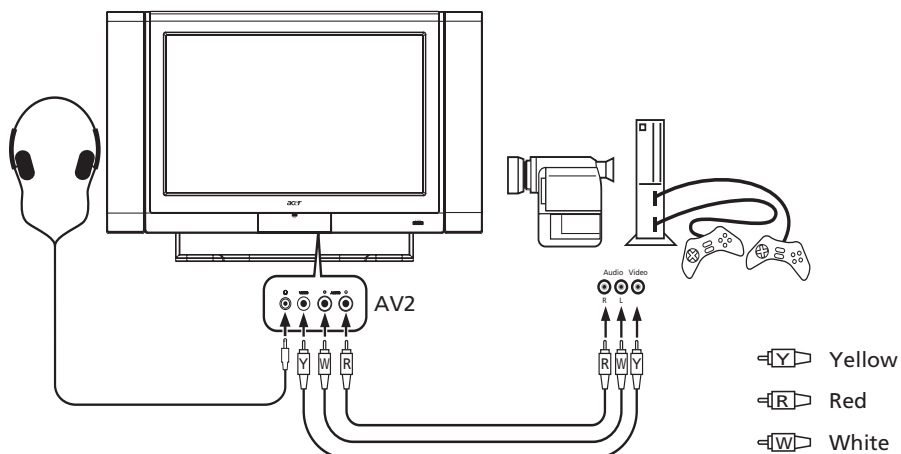
AV-OUT



- * Acer recommends using the SPDIF connector to connect to your AV amplifier for 5.1 surround sound while watching digital TV programs, since your LCD TV supports Dolby digital sound. For details please see "audio effects" on page 32.
- ** Composite-out only works with analog broadcasts.
- *** If you need the TV speakers to be turned off when connecting an external AV device, please use the OSD to set "Internal speaker" to "off".

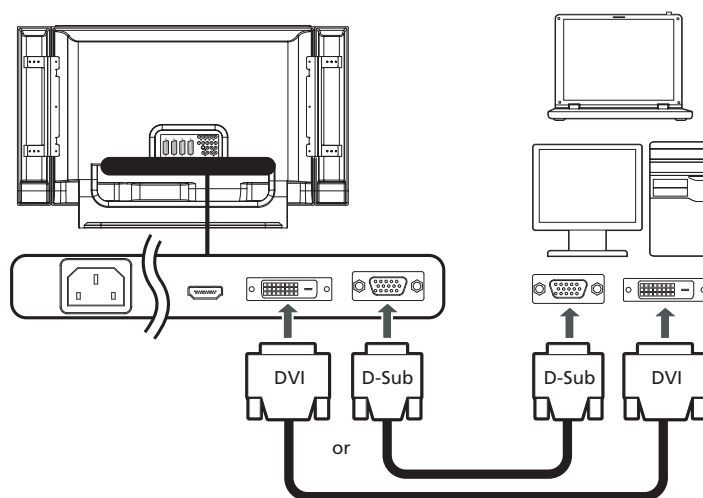
Connecting a camera, camcorder, video gam or headphones

Connect your camera or camcorder to the video/audio ports on the bottom of the TV set as shown below.

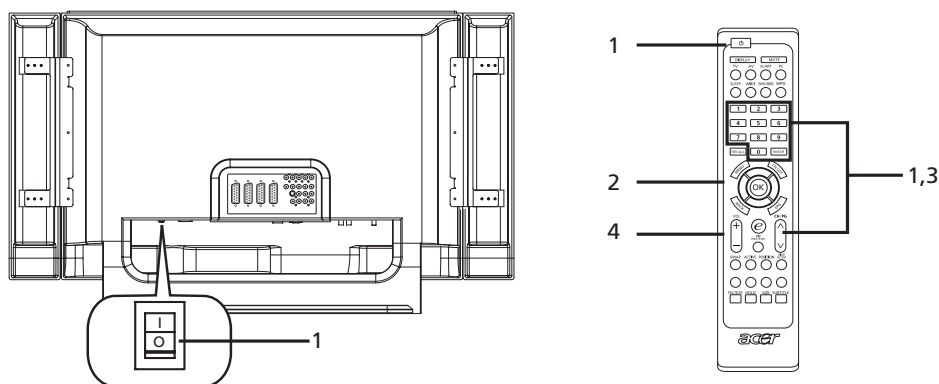



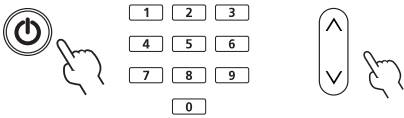

Connecting a PC or notebook computer





To display PC output on your TV, connect your PC or notebook computer to the TV as shown below.


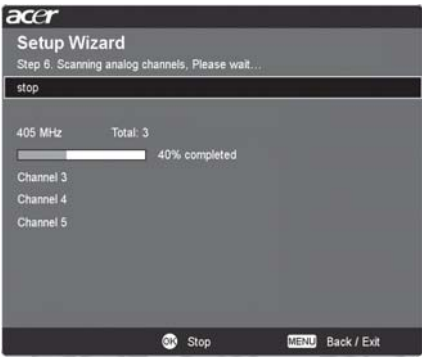
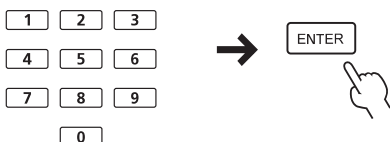
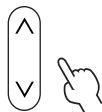
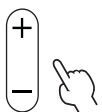


Getting started watching your TV



1	Power		
		a. Turn on the power switch beneath the screen.	
		b. Press the power button, number keys or channel up/down button on the remote control.	
2	Setup Wizard	The first time you switch on the TV, the Setup Wizard will guide you to complete the language selection and channel scanning.	
		Press the OK key to begin the setup process.	

Setup Wizard	
2	<div></div> <div>Step 1. Select the setup language you prefer.</div>
	<div></div> <div>Step 2. Please select country.</div>
	<div></div> <div>Step 3. Enter the correct local time and time zone using the remote control.</div>
	<div></div> <div>Step 4. Ensure that your co-axial cables are connected correctly before proceeding (see page 13 for details).</div>

Setup Wizard		
2		<p>Step 5. Scan for digital channels.</p> <p>If you do not have digital service, press OK to skip this stage. The onscreen menu will ask you for confirmation.</p>
		<p>Step 6. Scan for analog channels.</p>
<p>Step 7. Setup is now complete. You are ready to begin watching TV.</p> <p>If you leave the setup process before it is complete, you will be given a choice of options:</p> <ol style="list-style-type: none"> 1. Resume setup 2. Resume setup at next startup 3. Exit and don't remind me <p>Select an option and press OK to exit.</p>		
Changing channels		
3		<p>a. Press 0-9 on the remote control to select a channel. The channel changes after 2 seconds. Press ENTER to select the channel immediately.</p>
		<p>b. Pressing the channel (CH) up/down button on the remote control will also change the channel.</p>
Adjusting the volume		
4		<p>Adjust the volume level using the volume (VOL) +/- button on the remote control.</p>

Scanning the channels

The first time you use your TV, use the following method: Menu -> Settings -> Channel settings -> Scan -> "Yes". The TV will auto-detect available channels and store them in memory.



NOTE: The first time you access the OSD, a language setting subwindow will pop up, and you will be asked to choose your language settings.

OSD Navigation






Many of the advanced settings and adjustments are available through using the OSD (on screen display) menus, as shown in the example screenshot below.



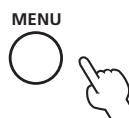
Basic operations required to navigate these menus (Picture, Audio, Settings, Options, Empowering) are described in this section. The first time you access the OSD, you will be asked to choose your language settings.

NOTE: You can also interact with these menus using the front panel controls.

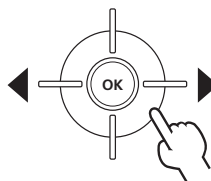
Navigating the OSD with Remote Control

There are five main OSD menus. These are: Picture , Audio , Settings , Options  and Empowering . Use the following method to easily navigate these menus.

1. Press the “Menu” button on the remote control or the “Menu” button on the control panel.



2. Select your desired menu by using the Left/Right sides of the directional pad to switch between the five menus.



3. Use the directional pad to interact with the menu. The Up/Down directions will scroll through the menu options, while Left/Right will adjust the different settings (for example, in the Picture menu, settings such as brightness, contrast, etc). If there are no adjustments, press Enter to select.

Teletext

Most TV channels also broadcast information via the teletext feature. This Acer LCD TV has 252 pages of memory which will store pages and subpages, thereby reducing waiting time. The teletext buttons on the remote control are listed below.

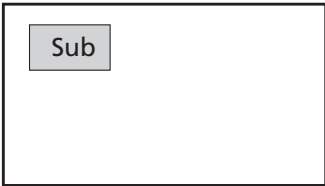
Item	Description
INDEX	Go to index page
SUBTITLE	Show subtitle on the screen
TELETEXT	Press to switch from TV/AV to Teletext mode.
REVEAL	Press to reveal hidden teletext information.
SIZE	Press once to zoom teletext page to 2X; press again to resume.
MIX	Press to overlay teletext page on the TV image, i.e. subtitle
HOLD	Press to pause the current teletext page in multi-page viewing mode.
Color buttons (R/G/Y/B)	Operates corresponding button on the teletext page.

Advanced Features

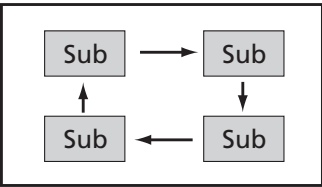
PIP/PBP/POP

PIP (Picture in Picture)

- 1. Press “PIP/PBP/POP” key once to display picture in picture as shown in the image above. Press “Active” key to switch between main display pictures, and press TV/SCART/AV/PC or channel selection to change the content of the subscreen.



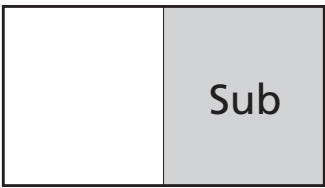
- 2. Press “swap” key to change the content between the primary and the subscreen.



- 3. When in PIP mode, press “Position” key to select the location of the subscreen, from Upper Left > Upper Right> Lower Right> Lower Left, as shown in the image above.

PBP (Picture by Picture)

Press “PIP/PBP/POP” key twic to display picture as shown in the image above. Press “Activate” to toggle the screen in focus and press TV/SCART/AV/PC or channel selection to change the content of the sub screen.



POP (Picture on Picture)

- 1. Press “Size/Mode” key to display the 1+ 12 picture on picture mode as shown in the image above. Press “Activate” key to toggle focus on subscreen and press TV/SCART/AV/PC or channel selection to change the content of the subscreen.


Sub	Sub	Sub	Sub
Sub			Sub
Sub			Sub
Sub	Sub	Sub	Sub

1. Press “Size/Mode key to display the 1 +5 picture on picture mode as shown in the image above.

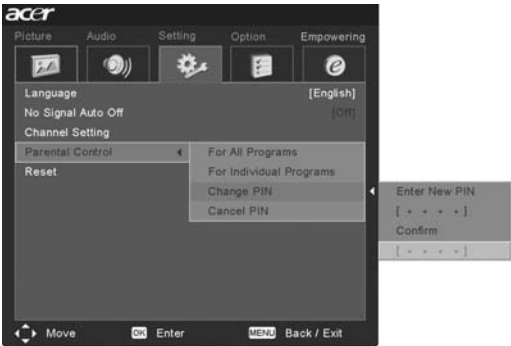
Sub	Sub	Sub
		Sub
		Sub

2. Press “Activate” key to toggle focus on subscreen and press TV/SCART/AV/PC or channel selection to change the content of the subscreen.

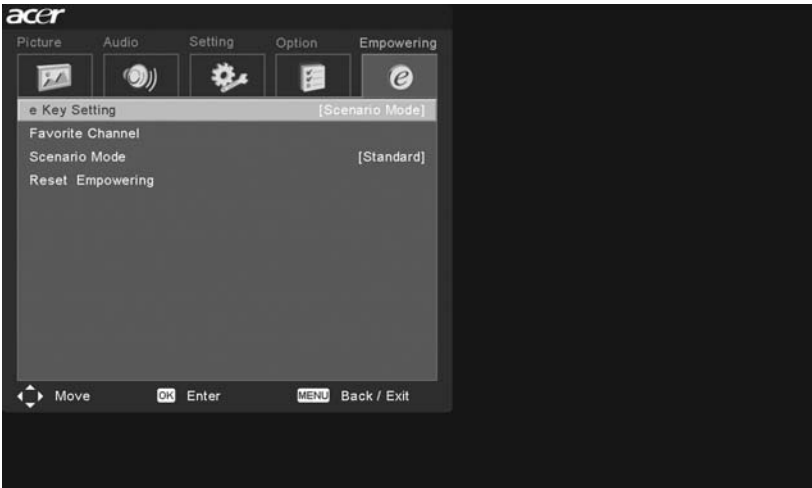
Parental Control

When in TV mode, you can find a Parental Control feature in the Options  menu. Enter a four digit PIN number using the number keys on your remote control. Use this number to adjust the Parental Control settings, to prevent access to certain channels.

If you forget your PIN number, please enter 6163 to rest.



Empowering Key: Scenario Mode and Favorite Channels



Use the OSD to define your “e” Empowering key setting: Scenario mode and Favorite channel. The default value for the “e” key is the Scenario mode. Use the following method: Menu -> Empowering -> e key Setting.

Choose between “Favorite channel” or “Scenario Mode”. Now, when you press the “e” key, your chosen selection will be accessed.

Scenario Mode

Press the “e” Empowering key and use the Scenario Mode to select pre-defined audio and video settings for optimal enjoyment of the following scenarios: Standard, Movie, Sport, Concert, Game, User.

Favorite Channels

One the remote control, pressing the “e” Empowering key for less than 1 second will toggle TV programs sequentially according to your favorite list. There are five slots in which you can store TV programs. Press “e” Empowering key for more than 2 seconds.

- ☐ When current program is not stored in favorite list, pressing the “e” key for more than 2 seconds stores the TV program information at the bottom of the favorite list. If there is no empty slot in the favorite list, the first program will be wiped out and the new TV program is added at the bottom of the favorite list. Simply put, it’s “First in, first out”.
- ☐ When the current program is stored in the favorite list, pressing “e” key for more than 2 seconds will remove the program from the favorite list.
- ☐ To view currently stored favorite channels, press the “e” Empowering key.

Hardware Specifications and Configurations

Electro / Optical

1.	Size of screen	26 inches
2.	LCD panel supplier	QDI, AUO
3.	Screen aspect ratio	16 : 9
4.	Type of screen	TFT with Super MVA technology or SIPS or QSV
5.	Screen resolution	1366 x 768
6.	Display colors	16.7 M colors (8 real bits per color)
7.	Chromaticity	Red 0.638 0.335 Green 0.271 0.597 Blue 0.145 0.065 White 0.275 0.298
		Data from QDI panel specification
8.	Color temperature	Five models are adjustable, Cold 16,000 degree K Middle-cold 14,000 degree K Standard 12,000 degree K Middle-warm 10,000 degree K Warm 8,000 degree K
9.	White uniformity	+/- 5% of the white average color temperature at 100% luminance
10.	White dispersion	+/- 5% of the white color temperature desired at 100% luminance
11.	Brightness	500 Cd/m ² (typical)
12.	Contrast	800 : 1 (typical)
13.	Uniformity	>= 85% (white and color uniformity measured on 9 points)
14.	Overscan	Video source with overscan supported Graphic source without overscan supported
15.	Vision angle	Ultra wide viewing angle: 176 (H), 176 (V) (CR>20)
16.	Gamma	The gamma value (global value) must be between 2.2 and 2.6 measured from DVI.
17.	Response time (T _R / T _F)	25ms
18.	Screen (lamp + LCD) life	>50,000 hrs at nominal backlight intensity
19.	Panel interface	1-ch LVDS

NOTE: Item, 9 to 13, 15, 17 to 19, provided from AUO panel specification

Mains

- | | |
|--|--|
| 1. Power supply electrical specification | <p>The power supply for this product is an internal converter, with a non-replaceable fuse internally. This converter is designed to meet CE mark requirement.</p> <ul style="list-style-type: none">• Input voltage and frequency range:
The operating range of line voltage is AC 90 volts to 264 volts, 47Hz to 63 Hz. Power consumption is under 213W.• Line fuse:
The AC input is fused and becomes electrically open as a result of an unsafe current condition. This fuse is inside the power supply converter and is not use replaceable, and must be returned for replacement. This fuse is well selected to handle inrush current for all combinations of line voltage and frequency. |
| 2. Stand-by consumption | <5W |
| 3. Power consumption | <213W |
| 4. Mains disturbance behaviour | <p>No disjunction during 0 to 40ms mains interrupt, with max load, min mains voltage.
No software reboot during the test.
No over voltage causing any damage during mains interrupt (0 to any time).</p> |
| 5. Inverter | <p>The inverter which is used to light up backlight of LCD panel is well designed to meet requirement of panel specification.</p> |

Acoustical / Audio

1.	Audio power amplifier	2 x 10W rms on 4 ohm load impedance	
2.	Loudspeakers	Attachable (1 x full range + 1 x sub-woofer speakers) x 2	
3.	Loudspeaker performances	Max. audio output (at 10% THD max.) at 1.0Vp-p / 1KHz input: 10W + 10W	
		Sound distortion at 1W / 1KHz	1% THD max. Two of 10W
		Speaker	4 ohms at 1KHz
		Speaker impedance	500uW max.
		Residual hum at min. volume	1000uW max.
		Max. hum at max. volume	
4.	Analog TV audio modes	AM / FM mono, stereo, sound1, sound2	
5.	Audio enhancement	Stereo SRS WOW BBE * Audio enhancement effect is audible at 5M in front of the screen.	
6.	acoustical noise (complete TV)	Audible noise in standby mode <35dBA (ISO-7779) Audible noise in power ON mode <35dBA (ISO-7779) Parasitic noise due to mechanical vibration during audio sweep must be inaudible at 1m around the TV.	

Hard / Soft Performance

1. Languages supported	Czech, Danish, Dutch, English, French, German, Italian, Polish, Portuguese, Russian, Spanish and Swedish
2. Starting time	A correct picture (color, aspect ratio, stability) can be displayed <6 second after power on
3. Wake-up behaviour	The system can be waken up if the button Standby is pressed (keypad "power" or remote control "power", "0 ~ 9", "CH +/-").
4. Stand-by reason	The TV pass in standby mode upon: <ul style="list-style-type: none"> • The button "power" is pressed (keypad or remote control). • On the selected source: no sync signal after 8 minutes.
5. Analog tuner performance	

No.	PARAMETER		MIN	TYP	MAX	UNIT
1	Video output level		0.7	1.0	1.3	Vp-p
2	Video S/N		40	45	---	dB
3	Noise limiting		---	38	45	dbuV
4	Video frequency characteristics	2Mhz		0.0	-1.5	dB
		3Mhz		-0.5	-2.5	dB
		3.58Mhz		-1.0	-4.0	dB
5	Audio output level		0.350	0.450	0.550	Vrms
6	Audio S/N		50	63	---	dB
7	Frequency Range		48.25		863.25	MHZ

- | | | | |
|----|---------------------------|-----------------------|---|
| 6. | Scanning mode | Automatic: | <ul style="list-style-type: none"> • Multi-standard, frequency based • Level range: 55dBuV to 100dBuV • Abort possible during scanning process |
| | | Manual: | <ul style="list-style-type: none"> • Frequency setting is available. |
| 7. | Analog TV naming function | Automatic: | CNI recognition |
| | | Manual: | 5 characters |
| 8. | PIP / POP / PBP function | PIP | |
| | | PIP multiple size | 20%, 30% |
| | | PIP multiple position | 4 corners |
| | | POP | |
| | | POP source | video / graphic (main) by ATV (sub) |
| | | POP (main + sub) | 1 + 5, 1 + 12 |

In PIP / POP / PBP mode, de-interlacer does not support to 1080i.
PIP / PBP

- Support video by video
- Support video by graphic (support graphic signal up to 1080i and no de-interlacer in 1080i)
- No auto SCART supported
- VGA and DVI support only up to 1024 x 768 @ 60Hz

NOTE: Video includes ATV, SCART1-3 (CVBS and S-Video), AV1, AV2 and DTV. Graphic includes component1, VGA, DVI and HDMI.

Main Sub	TV	SCART1	SCART2	SCART3	Component 1	AV1	AV2	DTV	VGA	DVI	HDMI
TV	×	●	●	●	●	●	●	●	●	●	●
SCART1	●	×	●	●	●	●	●	●	●	●	●
SCART2	●	●	×	●	●	●	●	●	●	●	●
SCART3	●	●	●	×	●	●	●	●	●	●	●
Component 1	×	×	×	×	×	×	×	×	×	×	×
AV1	●	●	●	●	●	×	●	●	●	●	●
AV2	●	●	●	●	●	●	×	●	●	●	●
DTV	●	●	●	●	●	●	●	×	●	●	●
VGA	●	●	●	●	×	●	●	●	×	×	×
DVI	●	●	●	●	×	●	●	●	×	×	×
HDMI	●	●	●	●	×	●	●	●	×	×	×

POP

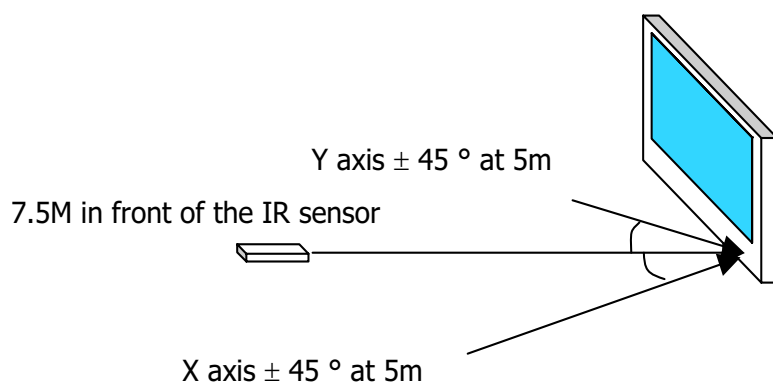
- POP sub window only Analog TV support
- No auto SCART supported in POP mode
- In POP12 mode, support component1 (up to 1080i), VGA / DVI (up to 1024 x 768 @ 60Hz) and HDMI (up to 1080i)
- In POP5 mode, VGA, DVI and HDMI supported²
- Component1 can support up to 576P in POP5 mode¹.

Main Sub	TV	SCART1	SCART2	SCART3	Component 1	AV1	AV2	DTV	VGA	DVI	HDMI
TV	x	●	●	●	● ¹	●	●	●	● ²	● ²	● ²
SCART1	x	x	x	x	x	x	x	x	x	x	x
SCART2	x	x	x	x	x	x	x	x	x	x	x
SCART3	x	x	x	x	x	x	x	x	x	x	x
Component 1	x	x	x	x	x	x	x	x	x	x	x
AV1	x	x	x	x	x	x	x	x	x	x	x
AV2	x	x	x	x	x	x	x	x	x	x	x
DTV	x	x	x	x	x	x	x	x	x	x	x
VGA	x	x	x	x	x	x	x	x	x	x	x
DVI	x	x	x	x	x	x	x	x	x	x	x
HDMI	x	x	x	x	x	x	x	x	x	x	x

9. TTX level
 - FLOF level 1.5 source can be RF, DVBT or AV.
 - TTX characters set must follow the country language selection.
10. TTX keys function
 - Full screen, Subtitle, Hold, Size, 4 color keys (R, G, Y, B)
11. Video standard supported
 - PAL, SECAM (automatic detection)
 - PAL (4.43 M, 50Hz) B G D K
 - SECAM L
12. Video ADC and processing
 - 10 bits (chroma and luma)
 - Luma / chroma AGC
 - 10 bits processing
 - Noise reduction
 - Chroma transient improvement
 - Luma transient improvement
 - 3D comb filter
 - De-interlacer
13. Time to synchronize
 - During a source / channel change, within 4 second to obtain a stable display
14. Video management
 - User adjustments: contrast, brightness, color, tint (NTSC), sharpness
 - Color temperature: cold, middle-cold, standard, middle-warm, warm
15. Aspect ratio
 - Aspect ratio available for all the video sources
 - 4/3, 16/9, panorama, letterbox1, letterbox2, letterbox3

NOTE: PC & DVI only support 4/3 & 16/9

16. Scenario functions	Settings:	Standard, movie, sport, concert, game, user
	Noise reduction:	Off, Low, Middle, High
17. Audio management	User adjustment:	Volume, Balance, Bass, Treble, Mute, Mono / Stereo / Sound1 / Sound2
18. Audio enhancement	Stereo, SRS, WOW, BBE	
19. AV sub-format supported	CVBS, YC, RGB, YUV	
20. Copy protection management	HDCP (HDMI)	
21. IR performance	The reception distance indicates the distance between IR emitter and receptor which allow to recognize 85% or more IR frames.	
	Reception distance:	>7.5M perpendicular to the IR sensor >5M at 45° horizontally >5M at 45° vertically



Connectors

1. Tuner type	IEC 69-2 fem following:	IEC 600169-2
2. AV type	SCART following:	EN 50 049-1
	RCA following:	IEC 933-5
	Jack:	3.5mm
	VGA connector fem following:	VESA
	DVI-D connector HDMI type A following:	EIA / CEA 861B
3. Color	SCART	black
	Jack	black
	Mini Din	black
	Audio Left	white
	Audio Right	red
	CVBS	yellow
	Y	green
	P _B / C _B	blue
	P _R / C _R	red
4. Accessibility	Front side	

Function	Video connector	Audio connector
AV2	CVBS input (RCA)	Audio Right / Left (2 x RCA)
Headphone output	-	Audio Right / Left Jack fem 3,5mm

Rear side

Function	Video connector	Audio connector
RF analog input	IEC69-2 fem	
RF digital input	IEC69-2 fem	
SCART1 RGB/CVBS	SCART (EN 50 049 –1)	
SCART2 YC/CVBS	SCART (EN 50 049 –1)	
SCART3 RBG/CVBS	SCART (EN 50 049 –1)	
Component1	Y, U, V (3 x RCA)	
AV1	YC (1 x mini-DIN) CVBS (1 x RCA)	Audio Right / Left (2 x RCA)
HDMI	HDMI	Audio Right / Left (2 x RCA)
DVI-D	DVI-D	
VGA	SUB-D15	Audio Right / Left (Jack fem 3,5mm)
AV output	TV CVBS out (1 x RCA)	

Environmental Requirements

The TV shall meet the following environmental requirements under normal operating conditions.

1. Operating 25° +/- 5° for purity, white point, mis-convergence, luminance measurements and white uniformity measurement

	Operating temperature:	0°C to 40°C
	Operating humidity:	10% to 90% (non-condensing)
2. Storage and Shipping	Storage temperature:	-10°C to 60°C
	Shipping temperature:	-10°C to 60°C
	Storage humidity:	10% to 90% (non-condensing)
	Shipping humidity:	10% to 90% (non-condensing)
3. Altitude	Operating altitude:	0 to 12,000 feet
	Shipping altitude:	0 to 40,000 feet
	Storage altitude:	0 to 40,000 feet
Units tested at an altitude up to 12,000 feet must operate at normal conditions without exhibiting abnormal behavior such as arcing or shutdown.		

IMPORTANT:For more detailed product specifications, please refer to “VWE2 Service Data”. You can double click Acrobat Document icon below to read the document. The document is provided by our vendor, please keep it as internal use only.

