

AQUAVISION®
television evolved

DB Range Operating Instructions

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 WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN 	 The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
WARNING : The unit is operated at dangerous voltages. The unit may only be opened by an authorized specialist. All maintenance and servicing work must be carried out by an authorized company. Repairs that are carried out incorrectly could result in fatal injuries to the user.	 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING :

To reduce the risk of electric shock do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel. To prevent fire or shock hazard, do not expose the rear of the set to rain or moisture. Do not rub or strike the Aquavision with anything hard as this may scratch, mark, or damage the TV LCD permanently.

CAUTION:

Unauthorized tampering with the inside of the TV invalidates the warranty.
The manufacturer shall not warrant for any damage caused by improper installation, maintenance and/or repair work by third parties.

Important safeguards for you and your new product:

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product and save them for future reference. Observing the simple precautions discussed in this operating guide can help you get many years of enjoyment and safe operation from your new AQUAVISION®. This product complies with all applicable regulations and voluntary safety standards.

1. Read Instructions

All safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Disconnect the unit from the electricity supply before cleaning. Do not use abrasive cleaners. Use a damp cloth for cleaning.

6. Transporting Product

This product should be moved with care. Observe health & safety, and all other relevant regulations as this item is extremely heavy. If it needs moving, we recommend it be moved on a wheeled device to reduce the chance of damage to persons when trying to lift it. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

7. Attachments

Do not use attachments or accessories not recommended by AQUAVISION® as they may cause hazards.

8. Ventilation

Your AQUAVISION will, under normal operating conditions, require convection ventilation. It has been designed so that any heat will dissipate through the glass at the front of the unit. This will get hot but need not cause concern. If the unit is to be installed in a place other than a domestic room, please consult your supplying dealer.

9. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your supplying dealer.

10. Power Lead Polarization

This product is equipped with a three-wire grounding-type cord. This is a safety feature and the product must be earthed.

11. Power Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

12. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. A "face plate" also needs to be installed with an isolating capacitor to prevent any damage from static.

13. Lightning

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

14. Power Lines

When installing an outside antenna system, extreme care should be taken to avoid contact with such power lines or circuits, as contact with them might be fatal.

15. Earthing the product

This product must be earthed properly to comply with the safety regulations in the country of use. If you are unsure of these regulations, please consult a qualified electrician.

16. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel. If the TV does not operate properly, switch it off and call your dealer.

17. Damage Requiring Service

Isolate this product from the mains supply and refer servicing to qualified service personnel under the following conditions: If the power-supply cord or plug is damaged. If the glass front has been damaged. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation. If the product has been dropped or the cabinet has been damaged. If the product exhibits a distinct change in performance.

18. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by AQUAVISION® or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other safety hazards and will not be covered under warranty.

19. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

20. Mounting

The product should be mounted on a wall or floor only as recommended in the instructions.

21. Please note:

The installation of your AQUAVISION® unit should be carried out by a technically competent and qualified person and must conform to all the relevant regulations. If in doubt, please refer to your supplying dealer.

22. Power

This set operates on an AC supply; the voltage is as indicated on the label on the back cover. This appliance must be earthed at all times through the chassis as well as through the power lead.

23. Location

This AQUAVISION® must be positioned according to the latest regulations concerning the area it will be installed into. Position your TV so that no bright light or sunlight will shine directly on the screen and locate it at a suitable viewing height. Do not expose the TV to vibration, dust or heat. Also ensure that the TV is placed in a position that allows a free flow of air. The unit must also be kept away from any moisture.

24. Caution: Modifications

Do not attempt to modify this product in any way without written authorisation from AQUAVISION.

25. Installation

It is the installer's responsibility to ensure that the AQUAVISION® unit is installed correctly as stated in these instructions and in conjunction with the latest safety regulations. Your guarantee will be void if any problems are caused through installation faults.

When the Aquavision is wallmounted, it is the installer's responsibility to ensure the wall, fixings, and all brackets are suitable for the weight of this television. It is also recommended that the fixings are checked annually for wear, etc. caused by vibration and for general material degradation.

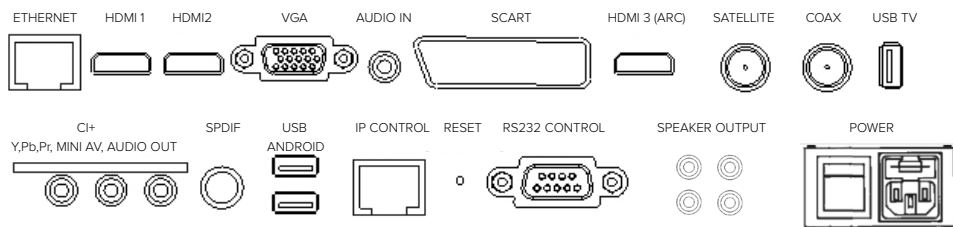
When the Aquavision is installed in conjunction with our floor standing kit, please make sure of the following:

- The strain retention strap is fitted correctly between the bottom of the television and the rear leg.
- The Clevis pin fixings holding the retention strap and the rear leg are fitted correctly and the safety catches supplied are fitted correctly
- It is also recommended that the rear leg is permanently secured to the floor and a top mounted safety strap is fitted to stop any chance of the television being tipped over.

IMPORTANT NOTE!

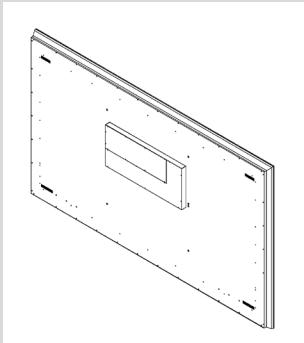
This television is extremely heavy and would possibly kill someone if it fell on them.
If in doubt, consult a specialist. Aquavision accept no responsibility for the fitting & installation of its products.

Television Inputs:

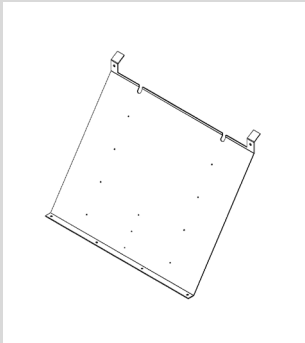


Supplied Products

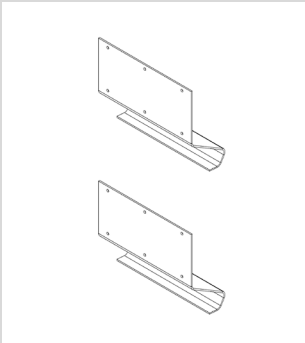
1x DB100 Television



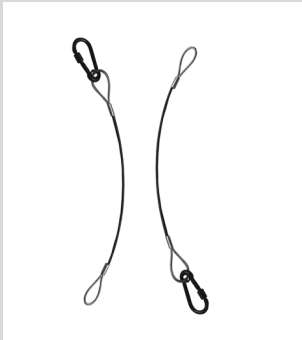
1x Rear Support Leg (optional)



2x Front Feet (optional)



2x Safety Cables (optional)



1x Aquavision Remote Control



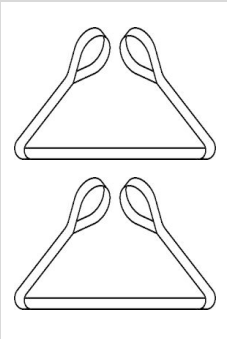
1x Android Smart TV Remote



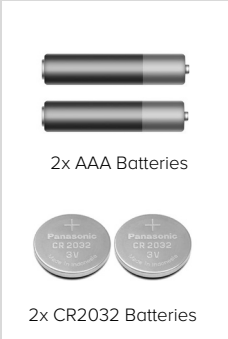
6x M5 Hex Bolts



2x Heavy Lifting Straps



4x Batteries



1x IEC Power Lead

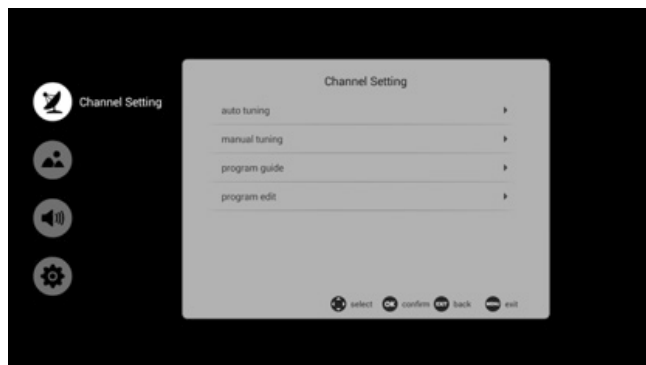


1. Main Menu on TV

1.1 Channel

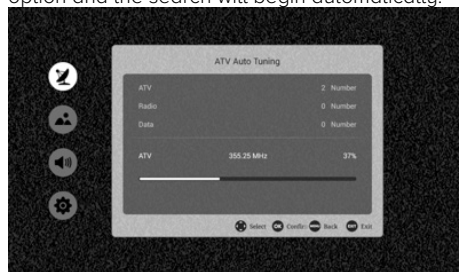
At the DTV/ATV input source, the Main Menu items from the top are Channel Setting->Picture->Sound->Advanced. The first item listed is the Channel Settings page as default. Press the right arrow key to bring up the sub page options. In this page, there are four sub items: Auto Tuning, Manual Tuning, Programme Guide (this item is only showed in DTV channel) and Programme Edit.

1.1.0 Channel Menu



1.1.1 Auto Tuning

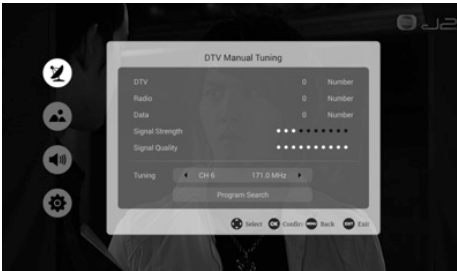
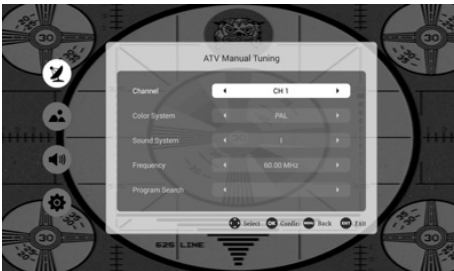
Once you click the right arrow key on Channel Settings, this will automatically highlight Autotuning. Click the right arrow again to bring up the next set of options to choose. Using the arrow key again, choose ATV auto tuning, DTV Auto Tuning or ATV /DTV Auto Tuning. Press enter on your required option and the search will begin automatically.



Column	Descriptions
ATV	Number of ATV channels
DTV	Number of DTV channels
Radio	Number of Radio channels
Data	Number of Data channels
Progress Bar	The progress of the searching process

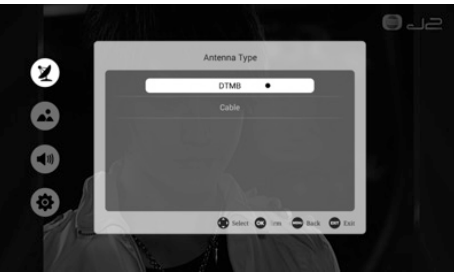
1.1.2 Manual Tuning

Manual Tuning contains ATV Manual Tuning and DTV Manual Tuning



Item	Adjust Item	Default	Description
Channel	1-100	1	Current channel shows
Colour System	PAL,NTSC,SECAM,AUTO	PAL	Programme colour system
Sound system	I,L,M,N,BG,DK	I	Programme sound system
Frequency	40-100mhz		Channel frequency size
Programme Search	-	-	Start or stop channel search

1.1.3 Antenna Type

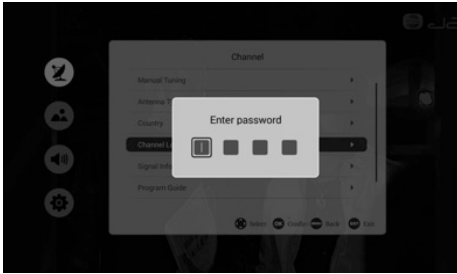


Item	Description
DTMB	Set DTMB format
Cable	Set Cable format

1.1.4 Country - Only shows in DTV



1.1.5 Channel Lock - Only shows in DTV

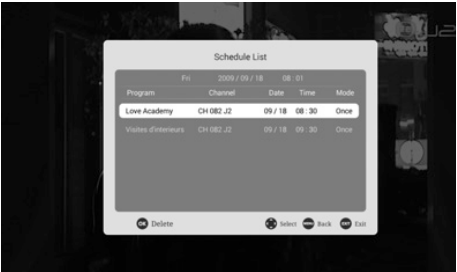


1.1.6 Signal Information - Only shows in DTV



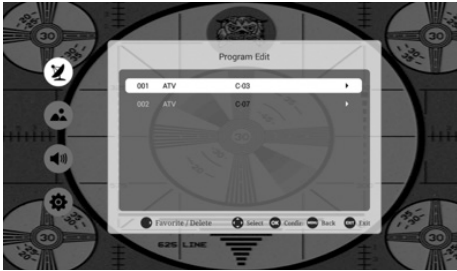
1.1.7 Programme Guide (Only shows in DTV)

Programme Guide is also known as EPG (Electronic Programme Guide), it provides all of the television programme information in a period of time. In this programme guide section, there are three columns: channel, programme and date. You can choose your chosen channel and date. You can use the 'remind' function for future programmes by pressing 'OK' on your selected programme. You can also view all reminders on the 'Schedule List'



1.1.8 Programme Edit

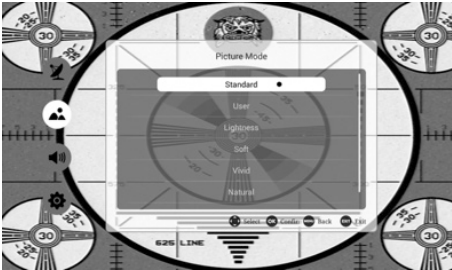
The Programme Edit section shows basic information of all the TV programmes. Press the Enter key, to highlight. This will give you more options and tools to set programme properties such as Favourite, Delete and Skip.



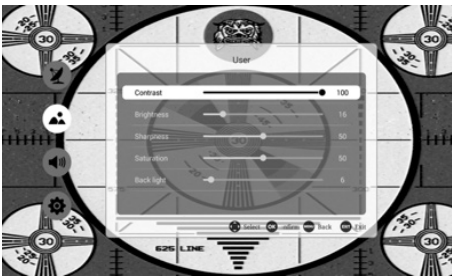
Key	Range	Description	Description
Favourite	ATV/DTV	Set your favourite channel	Current channel shows
Delete	ATV/DTV	Delete the current channel	Programme colour system
Skip	ATV/DTV	Choose if skip the current channel when CH+/- channel tuning.	Programme sound system

1.2 Picture

1.2.1 Picture Mode



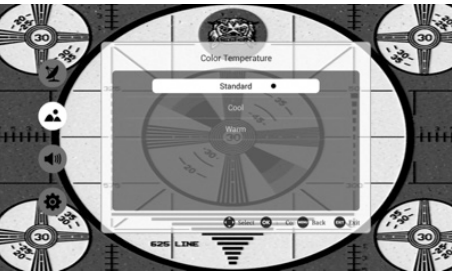
Item	Adjust Range	Default	Description
Picture mode	- Standard - User - Lightness - Soft - Vivid - Natural	Standard	Change the current 'Picture Mode'



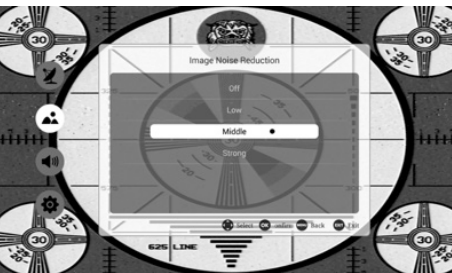
Item	Description
Contrast	Adjust Contrast for user operation
Brightness	Adjust Brightness for user operation
Sharpness	Adjust Sharpness for user operation
Saturation	Adjust Saturation for user operation
Back light	Adjust Back light for user operation

1.2.2 Colour Temperature

Like Picture Mode, Colour temperature is also a factor that influences the final image quality. There are three different Colour Temperature settings to choose from: Standard, Cool & Warm.



1.2.3 Image Noise Reduction



Item	Description
OFF	Close Image Noise Reduction Function
Low	Set Image Noise Reduction level Low
Middle	Set Image Noise Reduction level Middle
Strong	Set Image Noise Reduction level Strong

1.2.4 Zoom Mode

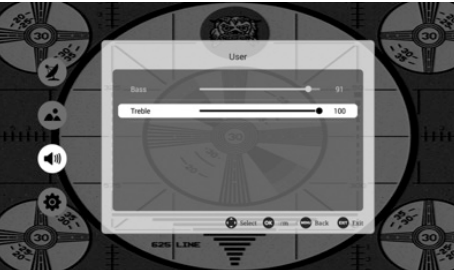
Input source	Panel resolution
ATV/DTV	16:9, 4:3, Auto, Zoom1, Zoom2
HDMI	16:9, 4:3, Auto, Just Scan, Zoom, Zoom2
VGA	16:9, 4:3

1.3 Sound

1.3.1 Sound System



Item	Adjust Range	Default	Description
Sound Mode	Standard User Music Movie Sports	Standard	Change the current 'Sound Mode'



Column	Description
Bass	Adjust low sound effect (0-600HZ)
Treble	Adjust high sound effect (>1000HZ)

1.3.2 Balance

Adjust sound balance by moving the bar LEFT or RIGHT to the desired setting:



1.3.3 AVC/Surround

Turn ON/OFF the AVC/Surround



1.3.4 SPDIF Out



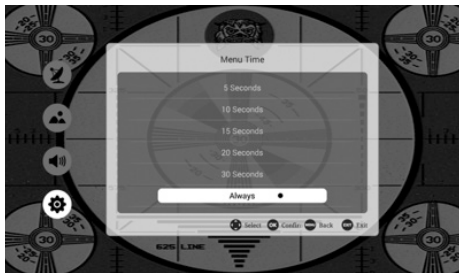
PCM	Make the sound out in PCM
RAW	Make the sound out in RAW
OFF	Close the function of SPDIF OUT

1.3.5 Alone

The Alone option is for sound only. This setting gives you the option to switch to a blank screen but still have sound from the chosen channel.

1.4 Advance

1.4.1 Menu Time



Item	Adjust Range	Default	Description
Menu Time	5s->10s->15s->20s->30s->Always	5s	Change the menu screen time

1.4.2 Sleep Time

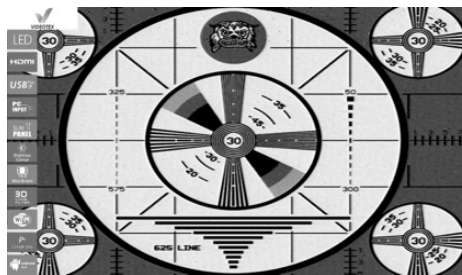


Item	Adjust Range	Default	Description
Sleep Time	Off->10Min->20Min->30Min->60Min->90Min->120Min->180Min->240Min	Off	Change the menu sleep time

1.4.3 Blue Screen

Blue Screen on: set TV background Blue Screen.

1.4.4 Store Mode



1.4.5 Restore to Default

This resets settings such as Menu time to default value (5s).



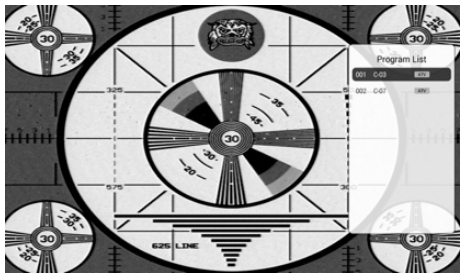
1.5 Input Source Menu

In TV interface, if you want to change the channel, you can press the source key to launch TV source and change the selected application to select different inputs.



1.6 Channel List

All TV channels show in a menu list. Select the Input source.



1.7 Personal Video Recorder

1.7.1 PVR File System

PVR function is only available for DTV. It includes Record, Time-shift and Playback functions. Recording includes in-time record and preserve record. In-time recording can be accessed through the short-cut key immediately. Record and Playback can be done at the same time, that means you can record DTV and play USB equipment at the same time. Time-shift is another function for both recording and playing together. The following explains this in detail. Choose PVR from the CHANNEL menu, as follows:



Item	Description
Select Disk	Choose the disc
Speed Check	Check USB speed
Format	Storage format
Recode List (shortcuts "index")	The list of recordings
Video Record (shortcut "Record")	Start recording

- 1) Speed check: Check that the storage equipment PVR File System is well established. Default as Start. Click OK/Enter and then the right arrow key to view the USB files system and speed. The processing shows Checking. When the USB is not inserted properly or inspection has failed, it will show FAIL.
- 2) Format: At Format, press OK/Enter or the right arrow key to start Checking PVR File System. After you have confirmed the USB equip information, it pop out to the Format Disc menu.
- 3) Channel – Recorded List 1 pattern for reference. The menu is as follows:



Menu	Description
Ascend	Select forward
Sort	Change the order in list based on LAN or time
Delete	Delete programme in recorded list

4) PVR - Record Mode



1.7.2 Time Shift

Time-shift is similar to the Record menu, it includes two modes: one is Full Mode and the other is Simple Mode. They can switch by Exit key. At Time-shift mode, Time-shift keeps still.

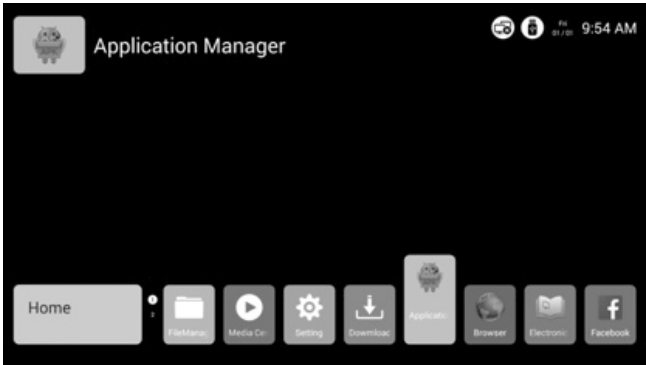


Key	Function
Pause	Start time-shift play
Stop	Stop Time-shift mode
Rev	Return to Time-shift Play condition and previous playing for 30 seconds. If previous to Time-shift recorded content, play it from this place
FF	Return to Time-shift Play condition and next playing for 30 seconds. If previous to Time-shift recorded content, play it from this place
Time Play	At Time-shift Play condition, the system record DTV and play it at the same time.
Backward	Fast Rewind
Forward	Fast Forward
A-B	A->B circle signs, when mark A or B, highlight showings, which only shows at play condition.
Slow Down	Play slow down

2. Launcher App

2. Launcher App

The basic four applications in this system are App Manager, Media Center, File Manager, and Settings. They provide the most common functions for managing the TV system in launcher, including file operator, music, and application installer or uninstaller.



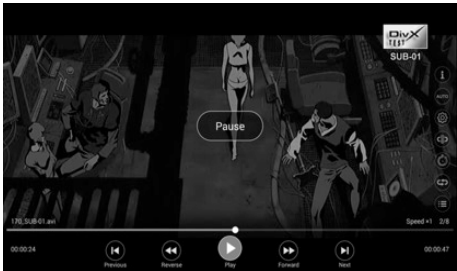
2.1 File Manager

The file manager is used to show and operate all files in the local storage and USB. You can perform file operations by clicking the menu key, then choosing file operations.



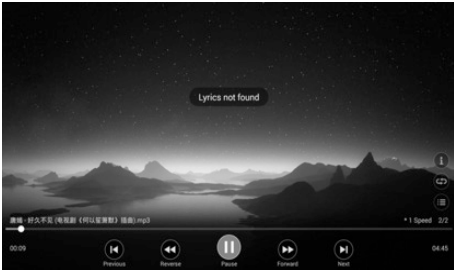
2.2 Media Centre

2.2.1 Video in Media Centre

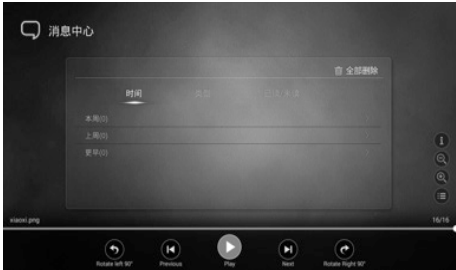


Name	Description
Previous	Play last programme
Reverse	Play in backward (in different speed)
Play	Stat or stop play video
Forward	Play in forward (in different speed)
Next	Play next program

2.2.2 Music in Media Centre



2.2.3 Pictures in Media Centre



2.3 Settings



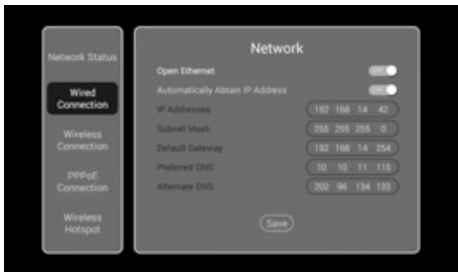
Item	Description
Network	Network setting
Language and Input	Set OSD language and input methods
Time and Date	Set time zone and current time
System	Some system information on TV
WiFi Display	Set WiFi display on
System Upgrade	System Upgrade
Restore Factory Settings	Reset the setting in default mode
About	About TV information

2.3.1 Network Settings

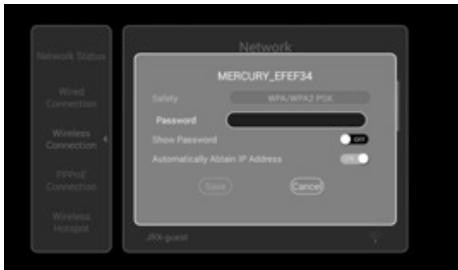
1) Network Status



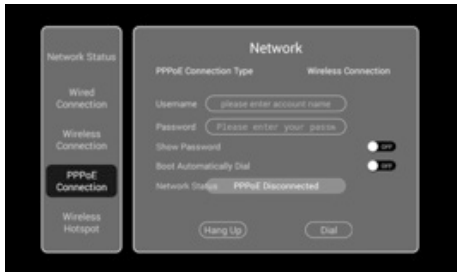
2) Wired Connection



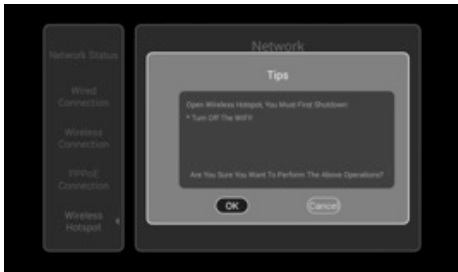
3) Wireless Connection



4) PPPoE Connection

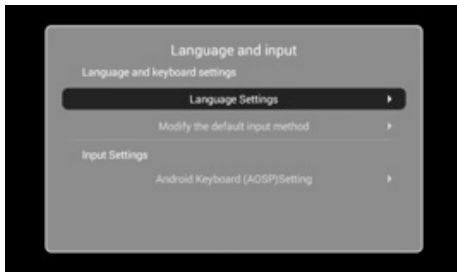


5) Wireless Hotspot

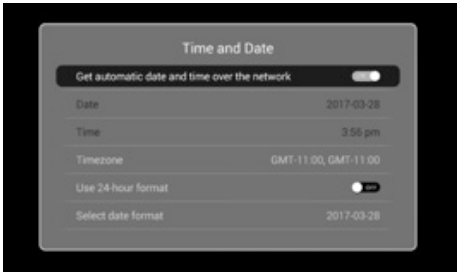


2.3.2 Language and Input

Press Column “Language Setting” to change OSD language
Press Column “Modify the default input method” to change input method



2.3.3 Time and Date



Column	Description
Get time and date over network	ON: Get time and date over network OFF: Get time and date over TV
Use 24-hour format	ON: Use 24-hour format OFF: Use 12-hour format
Select date format	1:Month-Day-Year 2:Day-Month-Year 3:Year-Month-Day
Time Zone	Set the Time Zone

2.3.4 System

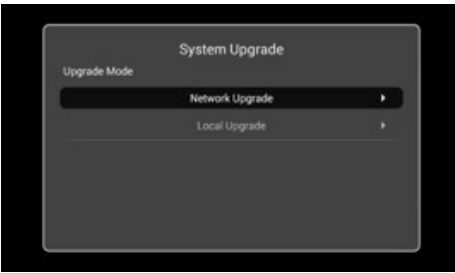


Item	Description
Allow install of non App-store application	ON: Allow install of non App-store application OFF: Do not allow install of non App-store application
Cache Cleaner	Clean cache
Google Account Manager	Show Google account information

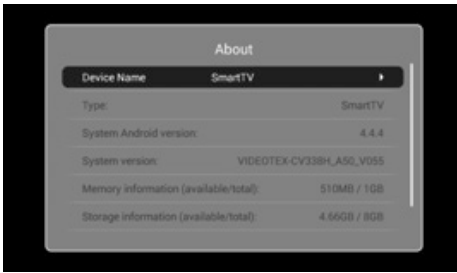
2.3.5 WiFi Display



2.3.6 System Upgrade



2.3.7 About



Item	Description
Device Name	The name of TV device
System Android version	Android version
System version	Software version

3. Specification & Codes

Pinnacle is a digital and analogue SMART TV board, which is able to receive the PAL/SECAM analogue television and digital television (DVB-T/C/T2) signals. It also supports H.264/H265 video decoding. Pinnacle is suitable for use throughout Europe (including the UK), Australia, etc. It can also be used to create a WIFI hotspot.

- HDMI 2.0/1.4b Compliant, HDCP 2.2/1.4 Compliant
- Supports RJ45 and WiFi Internet access.

Features:

ATV	Receiving range	47.25MHz – 867.25MHz
	Input Impedance 75Ω	75Ω
	Video System	PAL, SECAM
	Sound System	BG, DK, I, L/L', NICAM/A2
	TELETEXT	1000Pages
	Max Storage Channels	100CH
DTV	Receiving range	DVB-T/T2: VHF (42MHz – 230MHz), UHF (474MHz - 862MHz) DVB-S/S2: (900MHz - 2200MHz)
	Input Impedance	75Ω
	Bandwidth	7MHz/8MHz
	Modulation	DVB-T: COFDM 2/8K, QPSK, 16QAM, 64QAM DVB-T2: QPSK, 16QAM, 64QAM, 256QAM DVB-C: 16QAM, 32QAM, 64QAM, 128QAM, 256QAM DVB-S2: QPSK, 8PSK, 16APSK
	Video System	MPEG-2 MP@HL, MPEG-2 MP@ML, H.264, H.265
	Basic Functions	EPG, Subtitle, LCN, TELETEXT(Europe), MHEG-5(UK)
	Max Storage Channels	1000CH(DVB-T/T2),1000CH(DVB-C), 5000CH(DVB-S/S2)
PC	Sound System	MPEG-1 Layer 1/2, MPEG-2 Layer 2, DD, DD+
PC	Video Level	0.7Vp-p@75ohm
	Format	Max SXGA@75Hz
AV	Colour system	PAL/NTSC/SECAM
	Video Level	1Vp-p@75ohm
	Audio Level	500mV rms
YPbPr	Video Level	Y:1Vp-p@75ohm, PbPr:0.7Vp-p@75ohm
	Audio Level	500mVrms
	Format	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
HDMI	Video Standard	TMDS
	Format	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 4K2K
SMART	CPU	CA9*2core@1.0G
	GPU	Mali400mp2
	O/S	Android
	RAM	External 512M*2+Internal 512M
	eMMC FLASH	4GB/8GB
Networking	RJ45	(10M/100M) auto-identification and DHCP
	Max Data Rate	150Mbps/300Mbps
	Operating Frequency	2.4GHz
	Communications Standard	IEEE 802.11b/g/n

Features cont:

Keyboard	Power/Menu/Source/ Up/ Down/ Left/ Right	
OSD Language	English/French/German/Spanish/Italian	
Audio Amplifier	Frequency response	100Hz-15KHz @±3dB (1KHz -12dB reference signal)
	Max Output Power	2*8W @ 8ohm THD+N<10%@1KHz *15W@8ohm THD+N<10%@100Hz @ 24V, Audio input:0.5Vrms
Standby	< 0.2W(Main Board Only)	

Pre-set Mode for USB:

Media	File Extension	Codec - Video	Codec - Audio	Remark	
MOVIE	.mpg/.mpeg/.vob/.dat	MPEG-1/MPEG-2	MP3 AC3* AAC MP2 PCM	1080P@60fps / 40 Mbps	
		.avi		MPEG-1/MPEG-2	1080P@60fps / 40 Mbps
				Motion JPEG	1920x1080@30fps / 40Mbps
				MPEG-4	1080p@60fps / 40Mbps
				H.263	1080p@60fps / 40Mbps
				H.264	4K2K@30fps / 135Mbps
				Xvid	1080p@60fps / 40Mbps
		.ts/.trp/.tp		MPEG-2	1080P@60fps / 40 Mbps
	H.264			4K2K@30fps / 135Mbps	
	HEVC/H.265			4K2K @60fps / 100Mbps	
	AVS			1080P@60fps / 40Mbps	
	MVC			1080P@30fps / 80Mbps	
	.mp4	MPEG-4		1080p@60fps / 40Mbps	
		H.263		1080p@60fps / 40Mbps	
		H.264		4K2K@30fps / 135Mbps	
		HEVC/H.265		4K2K @60fps / 100Mbps	
		AVS		1080P@60fps / 40Mbps	
		MJPEG		1920x1080@30fps / 40Mbps	
	.mkv	H.263		1080P@60fps / 40 Mbps	
		H.264		4K2K@30fps / 135Mbps	
		MPEG-4		1080p@60fps / 40Mbps	
		MJPEG		1920x1080@30fps / 40Mbps	
		VP8		1920x1080@60fps / 20Mbps	
		HEVC/H.265		4K2K @60fps / 100Mbps	
	.mov	MJPEG		1920x1080@30fps / 40Mbps	
		Xvid		1080p@60fps / 40Mbps	
		AVS		1080P@60fps / 40Mbps	
	.flv	H.263		1080P@60fps / 40 Mbps	
		H.264		4K2K@30fps / 135Mbps	
	.3gpp/.3gp	MPEG-1/MPEG-2		1080P@60fps / 40 Mbps	
		MPEG-4		1080p@60fps / 40Mbps	
		H.263		1080P@60fps / 40 Mbps	
		H.264		4K2K@30fps / 135Mbps	
		HEVC/H.265		4K2K @60fps / 100Mbps	
		AVS		1080P@60fps / 40Mbps	
		MJPEG		1920x1080@30fps / 40Mbps	

Pre-set Mode for USB cont:

MOVIE	.rm*/.rmvb*	RV30/RV40	COOK/MP2	1080P@60fps / 40Mbps
	.dat/.vob/.mpg/.mpeg	MPEG-1, MPEG-2	MP2	Max Resolution:352×288
MUSIC	.mp3	--	MP3	Sample Rate: 16K~48KHz Bit Rate: 8K~320Kbps
	.m4a/.aac	--	AAC	Sample Rate: 8K~48KHz
PHOTO	.jpeg	Progressive JPEG		Max Resolution:7000x7000
	.jpeg	Baseline JPEG		Max Resolution: 15360x8640
	.bmp	--		Max Resolution: 15360x8640
	.png	--		Max Resolution: 15360x8640
SUBTITLE	.srt	SubRipper		Plain text only
	.sub	SubViewer/MicroDVD/DVDSubtitleSystem/VobSub		SubViewer 1.0 & 2.0 only
	.smi	SAMI		Plain text only
	.ssa	SubStation Alpha		Plain text only
	.ass	Advance SubStation Alpha		Only basic feature
	.txt	TMPlayer		--

Note:

1) The product includes the following optional patent technology: DD, DD+, RMVB, WMA, HDCP2.2 etc. Related patent license should be provided if you need to use these patents. DD+, RMVB, WMA, HDCP2.2

* Need the specific chip and hash key

2) Resolution is a kind of reference design, instead of hardware limitation. Because it is bounded by DRAM size and performance.

3) The larger resolution, the bigger DRAM size.

4) The larger resolution, the less performance, since it requires longer time to show a picture.

5) Jpeg decoder is a hardware decoder. The limitation of max resolution is 15360x8640.

6) PNG/BMP decoder is a software decoder (running on co-processor). The limitation of max resolution depends on DRAM size.

3.1 The AQUAVISION Codes are shown below to assist in home networking installation:

IR CODES	HEX	NEC System Code	NEC Code (Hex)	NEC Code (Dec)	RS232 CODES CV9202H-T PROD- UCTS		RS 232 FUNCTION	REQUIRED RS232 RESPONSE	Long Hex Code
03FCH00	0X07	3	0	0	NMBR	0007	7	NMBR0007	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH01	0X0A	3	1	1	MUTE	01	MUTE ON	MUTE ON	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH02	0X0B	3	2	2	MUTE	00	MUTE OFF	MUTE OFF	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH03	0X0D	3	3	3	MUTE	99	MUTE TOGGLE ON/OFF	MUTE99	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH04	0X25	3	4	4	ENTR	00	ENTER/ OK	ENTR00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH05	0X14	3	5	5	ISCT	01	INPUT SCART 1	ISCT01	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH06	0X0F	3	6	6	INFO	00	INFOR- MATION	INFO00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH07	0X0E	3	7	7			PSM		0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7

IR CODES	HEX	NEC2 System Code	NEC2 Coand (Hex)	NEC2 Coand (Dec)	RS232 CODES CV9202H1 PROD- UCTS		RS 232 FUNCTION	REQUIRED RS232 RESPONSE	Long Hex Code
03FCH08	0X12	3	8	8	IDVB	????	INPUT, TV DIGITAL, FOL- LOWED BY PRESET NUMBER EG 0001 = 1, 0003 = 3	IDVB FOL- LOWED BY NEW 4 DIGIT CHANNEL NUMBER EG 0001 = 1, 0003 = 3	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH08	0X12	3	8	8	IATS	???	INPUT, ATSC TV FOL- LOWED BY PRESET NUMBER EG 0001 = 1, 0003 = 3	IATS FOL- LOWED BY NEW 4 DIGIT CHANNEL NUMBER EG 0001 = 1, 0003 = 4	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH09	0X14	3	9	9	PAGE	00	PAGE DOWN NOW = "WEST"	PAGE00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH0A	0X15	3	0A	10			STILL		0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH0B	0X29	3	0B	11			SLEEP		0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH0C	0X15	3	0C	12	FAVX	00	FAVOUR- ITE	FAVX00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH0D	0X16	3	0D	13	TVRD	00	TV/ RADIO (PLUS CHAN- NEL NUM- BER)	TVRD00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH0E	0X39	3	0E	14	YLOW	00	YELLOW	YLOW00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7

IR CODES	HEX	NEC2 System Code	NEC2 Coand (Hex)	NEC2 Coand (Dec)	RS232 CODES CV920ZH-T PROD- UCTS		RS 232 FUNCTION	REQUIRED RS232 RESPONSE	Long Hex Code
03FCH0F	0X36	3	0F	15	GREN	00	GREEN	GREN00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH10	0X17	3	10	16	PAGE	01	PAGE UP NOW = "EAST"	PAGE01	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH11	0X0C	3	11	17	PWRX	99	TOGGLE ON/OFF	PWRX99	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH12	0X2C	3	12	18			REVEAL		0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH13	0X18	3	13	19	SRCE	00	SOURCE	SRCE00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH14	0X05	3	14	20	NUMB	0005	5	NMBRO005	0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH15	0X04	3	15	21	NUMB	0004	4	NMBRO004	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH16	0X19	3	16	22	CNCL	00	CANCEL	CNCL00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7

IR CODES	HEX	NEC2 System Code	NEC2 Coand (Hex)	NEC2 Coand (Dec)	RS232 CODES CV9202H-T PROD- UCT'S		RS 232 FUNCTION	REQUIRED RS232 RESPONSE	Long Hex Code
03FCH17	0X35	3	17	23	INDX	00	INDEX	INDEX	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH18	0X1C	3	18	24	EPGX	00	GUIDE	GUIDE	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH19	0X1D	3	19	25			DTV SET UP		0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH1A	0X22	3	1A	26	PRCH	00	PREVI- OUS CHAN- NEL	PRCH00	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH1B	0X09	3	1B	27	NUMB	0009	9	NMBR0009	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH1C	0X02	3	1C	28	NUMB	0002	2	NMBR0002	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH1D	0X01	3	1D	29	NUMB	0001	1	NMBR0001	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7

IR CODES	HEX	NEC2 System Code	NEC2 Coand (Hex)	NEC2 Coand (Dec)	RS232 CODES CV9202H-1 PROD- UC/IS	RS 232 FUNCTION	REQUIRED RS232 RESPONSE	Long Hex Code	
03FCHI1E	0X00	3	1E	30	NUMB	0000	0	NMBR0000	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCHI1F	0X08	3	1F	31	NUMB	0008	8	NMBR0008	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 05F7
03FCH20	0X1A	3	20	32	ICMP	00	COMP VIDEO INPUT	SUCCESS or FAIL	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 05F7
03FCH21	0X1B	3	21	33	ISVD	00	S-VIDEO INPUT	SUCCESS or FAIL	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 05F7
03FCH22	0X23	3	22	34	IHDM	01	HDMI 1 INPUT	SUCCESS or FAIL	0000 006C 0000 0022 015B 00AD 0016 0041 0016 0041 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0016 0016 0016 0016 0016 0016 0041 0016 0016 0016 0016 0016 0041 0016 0016 0016 0041 0016 0041 0016 0041 0016 0016 0016 0041 0016 0041 0016 05F7

3.3 RS232 Control

The RS232 connector on the back of the LCD is a 9 Pin 'D' and is CASE SENSITIVE. Please use CAPITALS at all times. Due to the transmission being bi-directional, a 25ms pause should be left between each command to allow for the 'success' or 'fail' command to be read.

Baud Rate EU:	115200bps
Data Length:	8bits
Parity Bit:	None
Stop Bit:	1 bit
Flow Control:	None

IR Details		
Parameter	Typical	Range
0	112MS	10-123MS
1	2.25MS	2.0-2.4MS
LEADER	9.0MS	8.0-10.0MS
WORD DISTANCE	108MS	

3.4 IP Control

Your Aquavision comes as standard with IP Control. Initial IP is set to 192.168.1.11. Please go to 192.168.1.11/setup to change these settings.

3.5 Pixel Errors

LCD displays are made up of a set number of pixels and each pixel is made from 3 sub-pixels; one Red, one Blue and one Green. Every sub-pixel is addressed by its own transistor and so the manufacture of a glass substrate is very complex. Due to the nature of the manufacturing process, occasional defects can occur. Pixel defects or failures cannot be fixed or repaired and can happen at any stage in the LCD's life.

3.6 Troubleshooting

Problem	Check Item
No picture on screen and no sound from speakers.	Insert the AC power cord plug securely in AC power outlet. Make sure the remote control is not on standby.
No picture/No picture from AV terminal.	Check the brightness setting of the display. Lamp may have malfunctioned. Make sure a cable with no VIDEO input signal is connected to the S-VIDEO INPUT terminal.
Picture is displayed, but no sound from the speakers.	Check the sound setting. Make sure the sound is not muted. Make sure the speakers are connected properly. Make sure the connectors of the optional speaker system are securely inserted.
Picture is too light.	Make sure COLOUR and CONTRAST settings are adjusted correctly.
Picture is too dark.	Make sure BRIGHTNESS setting is not set too low. Check to see BRIGHTNESS setting. Lamp may have malfunctioned.
Remote control does not work.	Change the batteries. Make sure the infrared transmitter window is not receiving strong light such as light from fluorescent lamps.
No picture from AV OUT terminal.	Make sure AV INPUT is not set. Make sure the input source is set to other than AV.
The picture is not sharp. The picture moves.	The reception may be weak. The state of the broadcast may also be bad. Make sure the antenna is facing the right direction. Make sure the outside antenna is not disconnected.
The picture is doubled or tripled.	Make sure the antenna is facing the right direction; There may be reflected electric waves from mountains or buildings.
The picture is spotted.	There may be interference from cars, trains, high voltage lines, neon lights, etc. There may be interference between the antenna cable and power cable. Try positioning them further apart.
There are stripes on the screen or colours fade.	Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations and transmission antennas of amateur radios and cellular phones may also cause interference. Use the unit as far apart as possible from devices that may cause possible interference.
There is no digital TV reception	Check model number of screen does not have a "B" suffix. This denotes it is a basic specification unit and does not therefore have a digital tuner fitted. Also check that the aerial is digital compatible.

3.7 Warranty

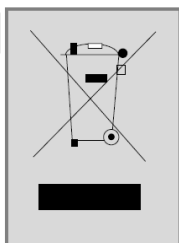
Your AQUAVISION® television has a 2 year return to base warranty. The warranty means that if technical assistance is needed as a consequence of an error in a component, or if AQUAVISION®'s products do not meet a reasonable standard, then the television can be repaired or replaced at the manufacturer's discretion. Please find the contact details at the end of this section or contact your supplying agent.

Please be aware that the AQUAVISION® warranty does not cover any of the following scenarios.

If the television:

- a. has been used in an unauthorised manner.
- b. has not been maintained, installed or cleaned correctly.
- c. has been exposed to unexpected external forces.
- d. has been opened or disassembled in any other way than as stated.

Finally, the warranty is only valid in the country where the product was initially purchased.



This product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please, dispose of this equipment at your local community waste collection/recycling centre.

In the European Union there are separate collection systems for used electrical and electronic product.

Please, help us to conserve the environment we live in!



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Enquiries: sales@aquavision.tv

Telephone: +44(0)161 711 1900

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