

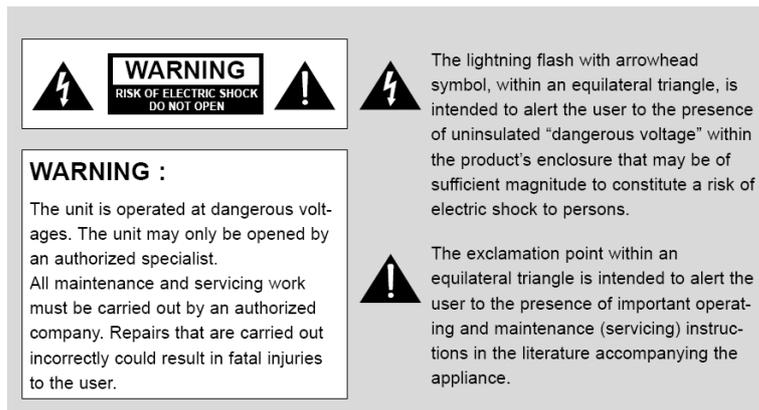


Pinnacle

European Operating Instructions



Television for the Discerning



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 Active Matrix LCD with anything hard as this may scratch, mark, or damage the Active Matrix 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 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. Water and Moisture

When installed correctly, this unit will be waterproof. We recommend that every couple of months you look at the silicone that is around the glass and make sure that this is still in tact and has not come away from either the glass or the bezel. If there is any sign of it coming away or any other fault, you will need to remove all the silicone and, after cleaning the unit, re-apply fresh. Leave for 48 hours to cure before allowing contact with moisture.

Warning (cont)

7. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

8. Attachments

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

9. Ventilation

Your AQUAVISION® will not, under normal operating conditions, require any 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 the bathroom or other domestic room, please consult your supplying dealer. Forced air ventilation will be required if this product is to be used in a steam room, sauna, or similar.

10. 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.

11. Power Lead Polarization

This product is equipped with a three-wire grounding-type cord. This is a safety feature. Do not defeat the safety purpose of the grounding-type cord.

12. 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.

13. 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.

14. 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.

15. Power Lines

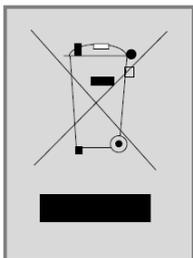
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should **be taken to avoid contact with such power lines or circuits, as contact with them might be fatal.**

16. 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.

17. 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. After any maintenance, you will need to completely clean the old silicone off and re-seal the front joints as stated overleaf.

 Note		<p>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.</p> <p>Please, dispose of this equipment at your local community waste collection/recycling centre.</p> <p>In the European Union there are separate collection systems for used electrical and electronic product.</p> <p>Please, help us to conserve the environment we live in!</p>
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Bathroom Regulations

PLEASE CHECK WITH YOUR ELECTRICIAN FOR THE LATEST REGULATIONS

Equipment for Bathrooms

Electrical equipment may be identified as having a certain level of mechanical and moisture protection, these are quoted as 'Ingress Protection' (or IP) numbers - such as 'IPXY', where X and Y are numbers, the X showing the level of mechanical protection and Y showing the level of moisture protection - in both cases, the higher the number, the better the protection. If a piece of equipment does not have an IP number, it must not be used in zones 0, 1 or 2 (or elsewhere having a wet/damp environment).

Typical electrical items which are marked with IP (Ingress Protection) numbers include: Extractor Fans, Heaters, Electrical Shower Units, etc. As well as IP numbers, items may be classed as PELV or SELV.

- Protective Extra-Low Voltage (PELV) - As the name suggests, the item uses low voltage but it is connected to earth.
- Safety Extra-Low Voltage (SELV) - Again a low voltage system but the output is isolated from the input.

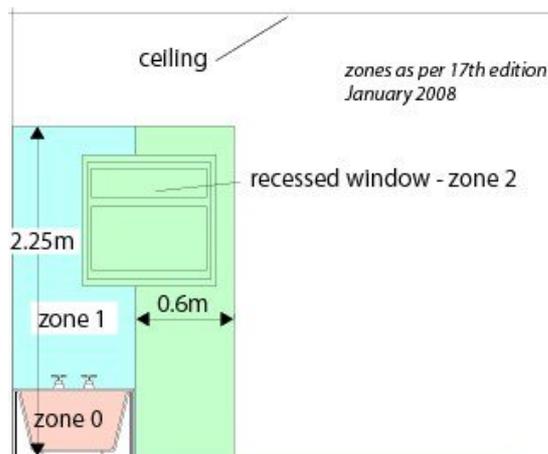
Standard electrical wall fittings (such as sockets, flexible cord outlets and fused switches, etc.) are not IP rated so cannot be installed within zones 0, 1 or 2. No standard socket outlets are allowed within 3m of the outer limit of zone 1, and any socket fitted would be on a RCD protected circuit.

Use of Equipment

Any electrical item approved for use in a zone may be used in another zone with a higher number, but not in a lower number zone.

Note:

- Providing that the space under the bath cannot be accessed without using tools (i.e. screwdriver, etc), that space is considered to be 'out of scope'.
- All electrical circuits within bathrooms must be protected by Residual Current Devices (RCD) not exceeding 30mA. This applies all electrical equipment whether it is controlled a switch in the bathroom or remotely switched.



Zone 0	The interior of the bath or shower which can hold water
Zone 1	The area directly above zone 0 limited vertically to 2.25m above the bottom of the bath or shower. Also 1.2m horizontally from the centre of a shower outlet to the height of the outlet or 2.25m whichever is the higher.
Zone 2	The area beyond zones 0 and 1, 0.6m horizontally and up to 2.25m vertically. Zone 2 also included any window with a sill next to the bath

Zone	Notes	Product
Zone 0	Requires electrical products to be low voltage (max. 12 volts) and be IPX7 (the mechanical protection is unimportant)	All sizes up to 19" with the transformer in Zone 3 or beyond
Zone 1	Requires electrical products to be IPX4 or better, or SELV with the transformer located beyond zone 2. If the fitting is 240v, a 30mA RCD must be used to protect the circuit	All sizes.
Zone 2	Requires electrical products to be IPX4 or better, or SELV with the transformer located beyond zone 2. If the fitting is 240v, a 30mA RCD must be used to protect the circuit	All sizes.
Beyond Zone 2	When the size of bathroom extends beyond zone 2, portable equipment is allowed, however they should be positioned such that their flex length does not enable them to be used in zone 2.	All sizes.

Control Board Specification

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

- Supports DVB-T/T2 MPEG-4 extended ASP up to 1080p @ 30fps
- Supports H.264 MP/HP @ L4.1 for SD and HD decoding
- Supports DVB-C 16, 32, 64, 128 and 256-QAM (Optional)
- Supports USB 2.0 multimedia playback
- Supports audio and video playback
- Supports text and picture browsing with no size limitation
- Analogue and digital HD port input signal largest support 1080p
- Supports analogue & digital Teletext – 1000 pages
- HDMI 1.4a compliant and DVI 1.0 compliant receiver supporting up to 225MHz @ 1080p 60Hz with 12-bit deep colour resolution HDCP 1.4a compliant receiver.
- Supports 3D video decoder NTSC-M, NTSC-J, NTSC-4.43, PAL I(B,G,H,D,N), PAL-M, PAL-N, PAL-60 and SECAM standards
- Enhanced motion adaptive 3D Y/C separation comb filter for NTSC/PAL systems
- Supports USB updates
- Supports video SDTV at 480i/576i and 480p/576p
- Supports video HDTV at 720P and 1080i and 1080p
- Reliable EMC and ESD handling
- Supports fast ethernet (RMII 10M/100M)
- Dual core ARM Cortex-A9 CPU which can run up to 1.5GHz and has a wide bus connecting to the memory sub-system
- Dual core ARM Mali-400 GPU handles open GL ES 1.1/2.0
- Built-in wireless 802.11b/g/n WIFI and RJ45 interface

Features

PANEL	Type	LED
	Resolution	Max. 1920X1080
	Interface	Single/ Double LVDS
	Voltage	5V, 12V
ATV	Receiving range	75Ω
	Video System	PAL ,SECAM
	Sound System	BG, DK, I, L/L', NICAM/A2
DTV	Receiving range	VHF (174MHz – 230MHz), UHF (474MHz - 862MHz)
	Input Impedance	75Ω
	Bandwidth	7MHz/8MHz
	Modulation	DVB-T:COFDM 2K/8K QPSK, 16QAM, 64QAM DVB-C:16QAM, 32QAM, 64QAM, 128QAM, 256QAM DVB-T2:COFDM 2K/8K QPSK,16QAM, 64QAM,256QAM
	Video System	MPEG-2 MP@HL, MPEG-2 MP@ML, H.264
Sound System	MPEG-1 Layer 1/2, MPEG-2 Layer 2, DD, DD+	
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
SCART	Video	CVBS&RGB input, CVBS output
	Video output/input	RGB: 0.7Vp-p@75ohm, CVBS: 1Vp-p@75ohm
	Audio	output/input 500mVrms
SMART	CPU	Amlogic 8726-MX , Dual Cortex A9 upto 1.5GHz
	GPU	Dual core ARM Mail 400 GPU @ 400MHZ
	O/S	Android 4.1.1
	RAM	1GB
	NAND FLASH	4GB
Networking	RJ45 (10M/100M)	
	Built-in Wireless 802.11 b/g/n WIFI	
Keyboard	Power/Menu/Source/ Up/ Down/ Left/ Right	
OSD Language	English/French/German/Spanish/Italian	
Audio Amplifier	2 X8W @ 8ohm THD<10%	
Standby	< 0.2W(Main Board Only)	

Preset Mode for USB

Media	Video Formats	H.264 (1080p@30fps) HP/MP/BP L1.4 Support - *.mkv, *.ts, *.m2ts, *.mov, *.mp4 VC-1 / WMV (1080p @30fps) Interlaced and Progressive Advanced Profile Level 3 AVS – Jizhun Profile (1080P@30fps) WebM (D1@30fps) RMVB (720p@30fps) - *.rm, *.rmvb MPEG1/2/4 (1080p@30fps) - *.avi, *.mpg, *.mpeg, *.dat, *.vob, *.ts, *.mov, *.mp4 MJPEG (D1@30fps) - *.avi, *.mov H.263 (D1@30fps) - *.avi, *.flv
	Audio Formats	Support MP3, AAC, WMA, RM, FLAC, OGG,Dolby, DTS, SRS
	Picture Formats	JPG,GIF,BMP,PNG
Notes: 1) USB only supports PHOTO, MUSIC and MOVIES. The system automatically classifies files, only showing the supported files 2) Hard disk drive supported. The maximum storage capacity is 1Tb 3) Photos not supported in EXIF format 4) Flash animation not support.ed 5) Text files supported		

Connector details

Front View



ETHERNET

USB 1
USB 2

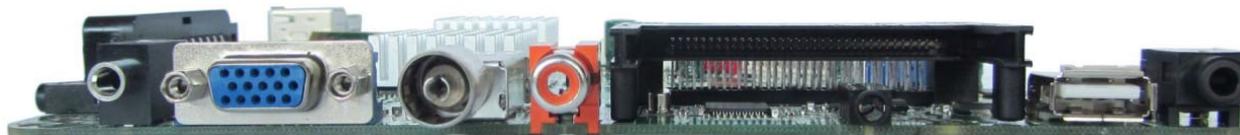
HDMI 1

HDMI 2

SCART

MINI
YPBPR

Side View



PC
AUDIO

VGA

UHF

SPDIF

CI SLOT

MINI AV

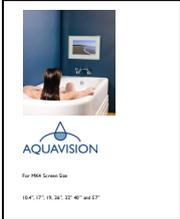
USB

AUDIO
OUT

Supplied Accessories

Make sure the following accessories are provided with your product. These should all be included in the box with the main LCD screen:-

1. Owner's Manual



2. Batteries (2 x AAA)



3. Master Remote Control



4. Water-Resistant Remote



Water-Resistant Remote Control

Key Name	Operation
Power	▶Power On/Off
PR+	▶Increases programme number & tune channel when no OSD activated ▶Navigates input source when source OSD activated ▶Executes function by OSD help commands when main OSD activated ▶Navigates previous menu when main OSD activated
PR-	▶Decreases programme number & tune channel when no OSD activated ▶Navigates input source when source OSD activated ▶Executes function by OSD help commands when main OSD activated ▶Navigates next menu when main OSD activated
VOL +	▶Increases speaker / headphone sound volume when no OSD activated ▶Executes function by OSD help commands when main OSD activated ▶Increases values of user menu when main OSD activated
VOL-	▶Decreases speaker / headphone sound volume when no OSD activated ▶Executes function by OSD help commands when main OSD activated ▶Decreases values of user menu when main OSD activated
OK	▶Same as Select key on keypad
MUTE	▶Toggles speaker / headphone sound mute status
TV/AV	▶Activates source change OSD when source change OSD is not activated ▶Deactivates source change OSD when source change OSD is activated
0~9	▶Enters digit value to change programme directly

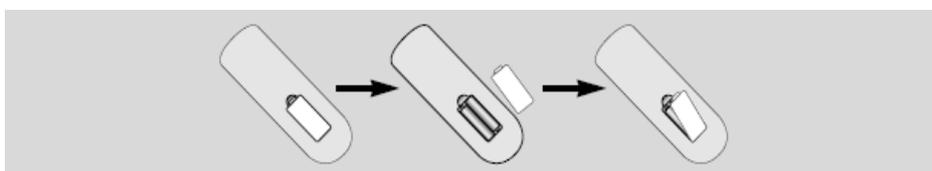
Replacing Batteries

Water Resistant Remote Control

Your Water-Resistant Remote Control comes as standard with a coin cell battery installed. Should this need to be replaced at any time, simply twist open the battery compartment on the rear of the remote control, by turning it with a coin, and remove the discharged battery. Replace with a CR2032 Lithium Battery, making sure you observe polarity. Replace the battery cover and twist to close.

Full Function Remote Control

1. Remove the battery cover by pulling it upward in the direction shown by the arrow
2. Insert the batteries with correct polarity ("+" to "+", and "-" to "-")
3. Replace the battery compartment cover



Notes for using either remote control

- Make sure there are no objects between the remote control and its sensor
- Do not place either of the remote controls near a heater
- Do Not place the master remote in a damp or wet place
- Strong impact to the remote control may cause operation failure
- Signal from the remote control may be disturbed by sunlight or other bright light. In this case, darken the room

Aquavision Master Remote Control

1. Buttons of the master remote control

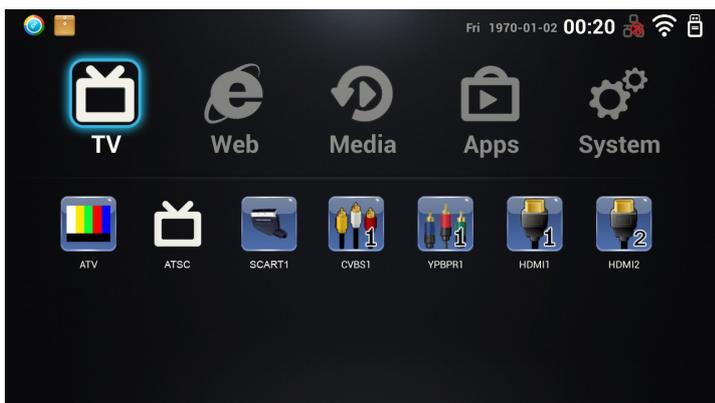
Index	Name	Function
1	Power	On/off the power supply
2	Info	Display the information of the current signal
3	Mute	Mute the sound
4	PMODE	Set up picture mode
5	SMODE	Set up sound mode
6	AUDIO	Switch for audio
7	Sleep	On/off the power supply within a period of time
8	Number0~9	Numeral button
9	-/--	Cursor button
10	Red	Only for teletext
11	Green	Only for teletext
12	Yellow	Only for teletext
13	Blue	Only for teletext
14	VOL-/+	Left/right or volume -/+
15	CH-/+	Down / Up or channel down / up
16	Menu	Main menu
17	Source	Switch the input source
18	Rec	Record digital service
19	Exit	Exit
20	Enter	Enter/DTV channel manager / ATV channel manager
21	TT	Teletext interface on/off
22	Hold	Teletext hold on/off
23	Mix	Teletext mix on/off
24	Clock	Teletext clock on/off
25	Index	Index of teletext
26	Size	Display aspect ratio
27	Reveal	Teletext hide characters on/off
28	Subpage	Teletext Subpage switch
29	EPG	Electronic program guide
30	FAV	Edit favorite list
31	TV/Radio	Switch between TV and Radio program
32	Pause/Play	Pause/Play
33	FA	Fast forward
34	FB	Fast backward
35	Stop	stop

1. Main Interface

-  All of the TV sources
-  Quick web links
-  Media Player Applications
-  Applications
-  Some applications on the System settings

2. Choose source

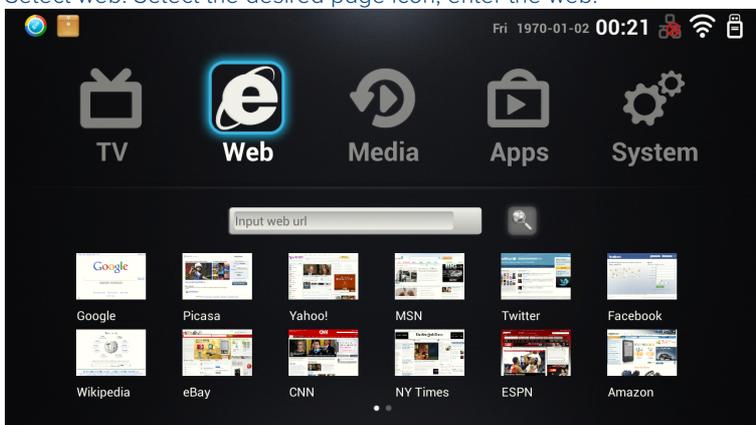
Enter TV source.
Choose the source and press “enter” key to enter TV source.
Exit TV source.
Press “exit” key to enter android launcher when in TV source.
TV source OSD Operating manual.



2-1

3. Web

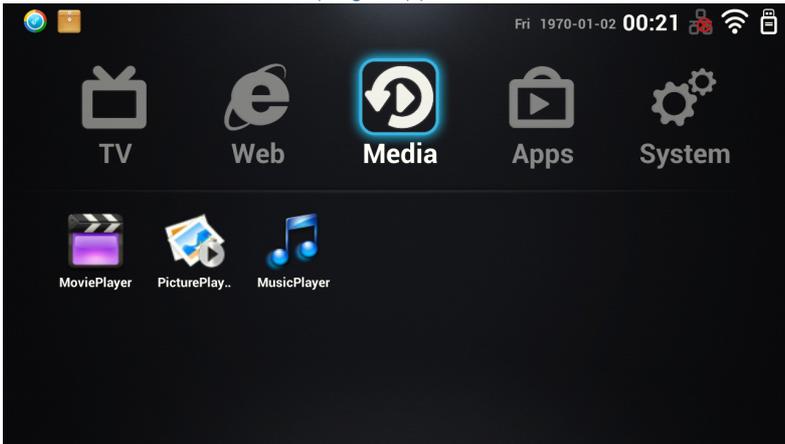
Select web. Select the desired page icon, enter the web.



3-1

4. Media

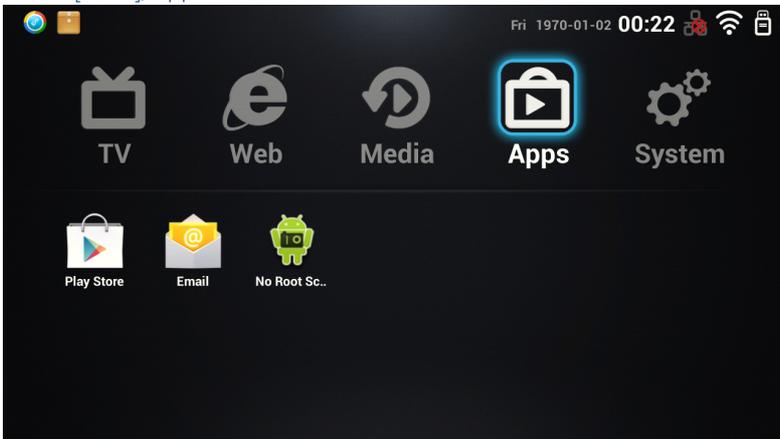
Select Media enter the movie player application.



4-1

5. Application

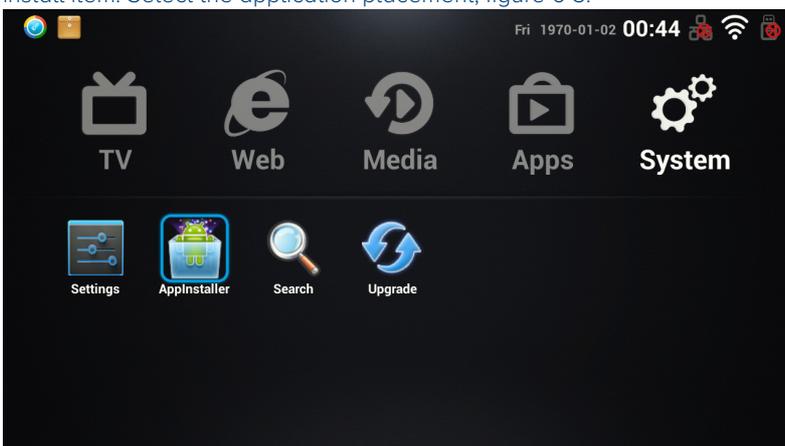
Select [APPS], Applications stored here.

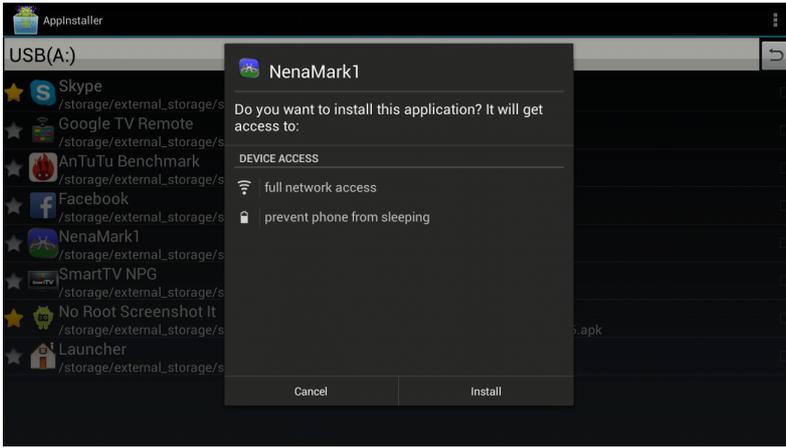


5-1

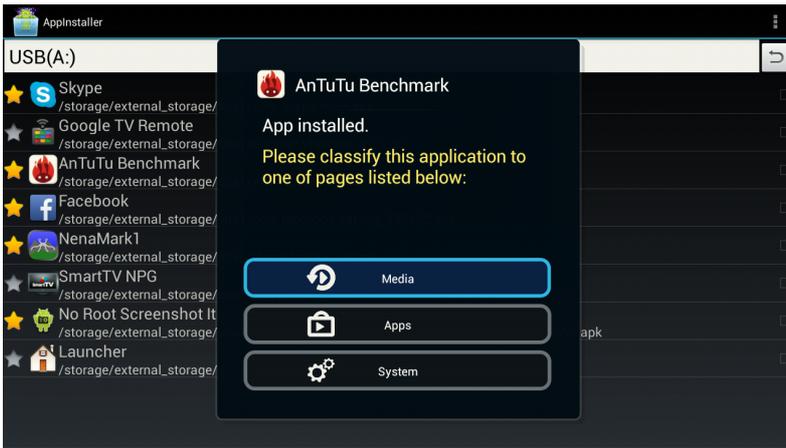
6. APK uninstall and Install

Select system, enter the Aps installer application . Select the apk directory, select the apk install package and select install item. Select the application placement, figure 6-3.



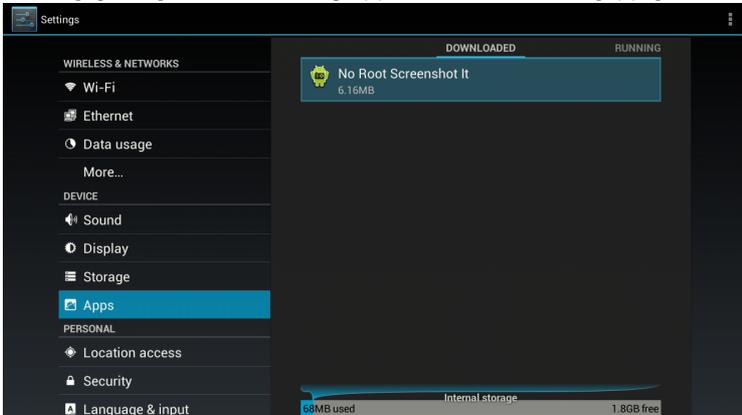


6-2

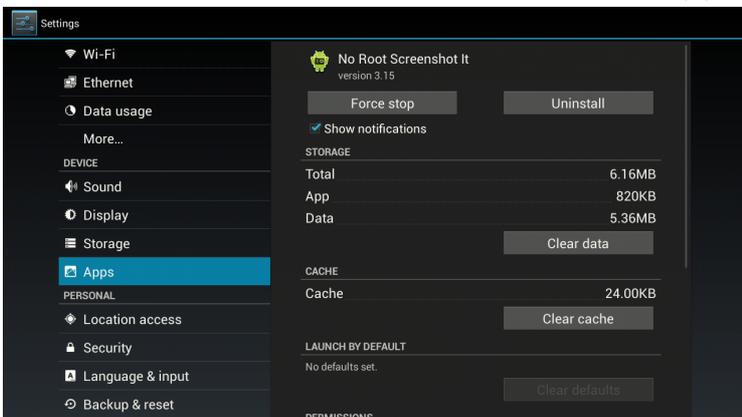


6-3

Select [System] enter the Setting application , select [Apps] item, select the app item to uninstall this app

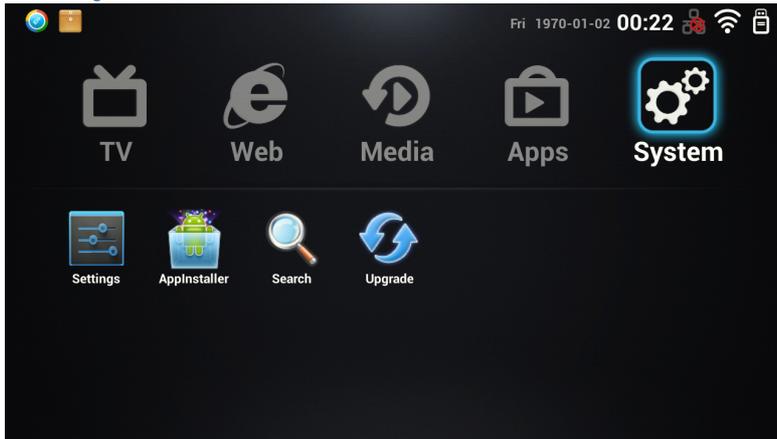


6-3



7. System

Select System

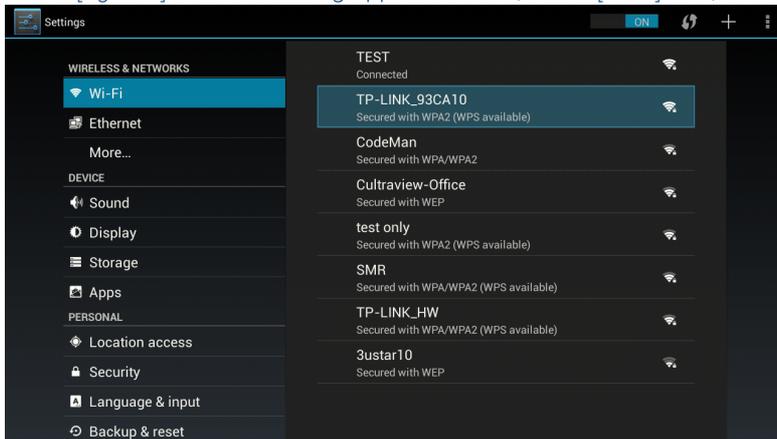


7-1

8. Network

8.1 Wifi

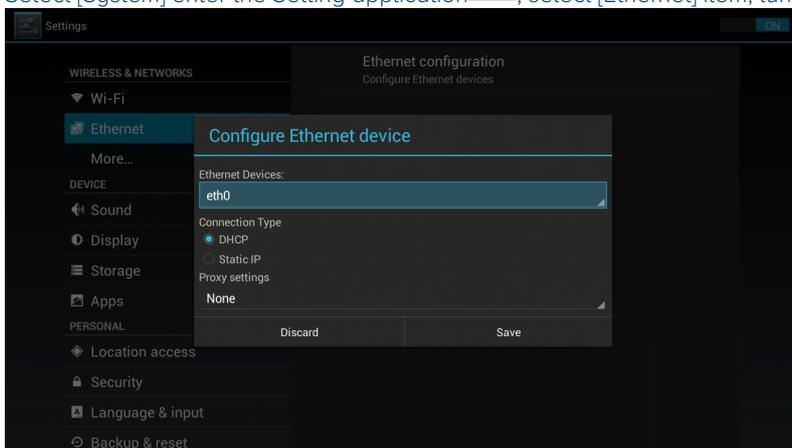
Select [System] enter the Setting application , select [Wi-Fi] item, turn off/on.



8-1

8.2. Ethernet

Select [System] enter the Setting application , select [Ethernet] item, turn off/on Ethernet configuration

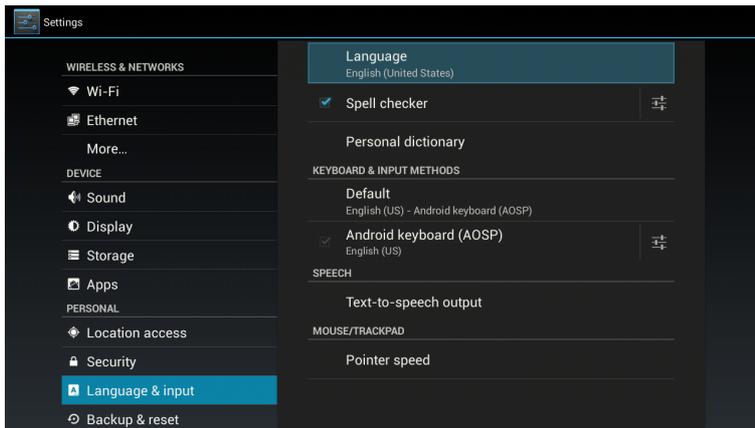


8-2

9. Language



Select [System] enter the Setting application, select [Language & input] item.

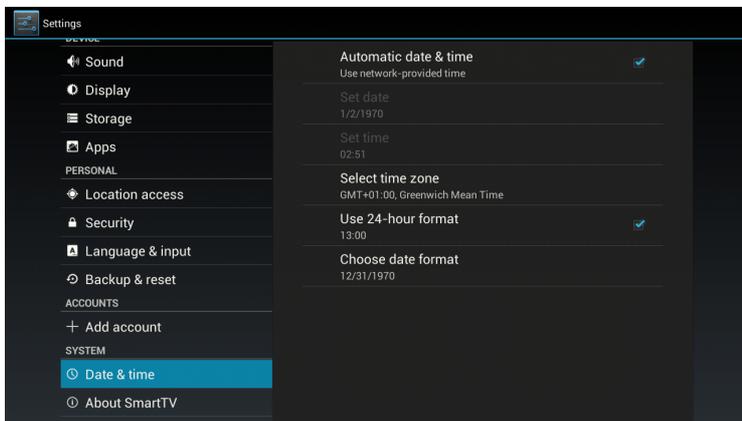


9-1

10. Date & Time

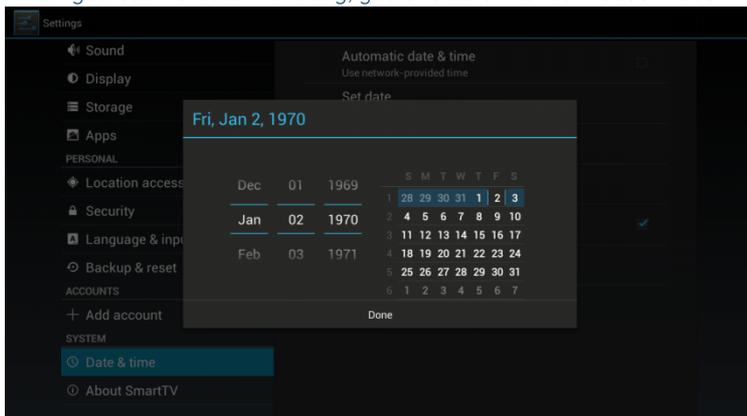


Select system, enter the setting application, select the [Date & Time] item to change date and time setting.

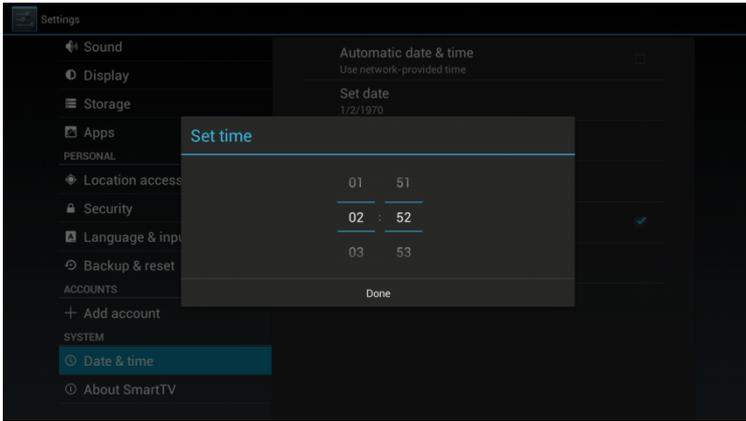


10-1

When you set the date manually, you should switch to mouse mode.



10-2

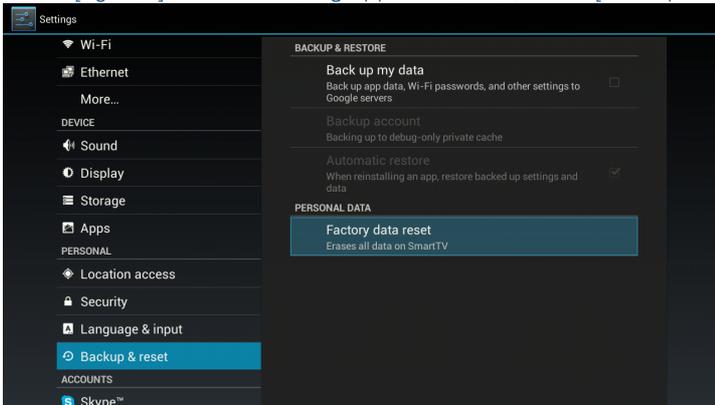


10-3

11. Reset



Select [System] enter the Setting application, select [Backup & reset] item.

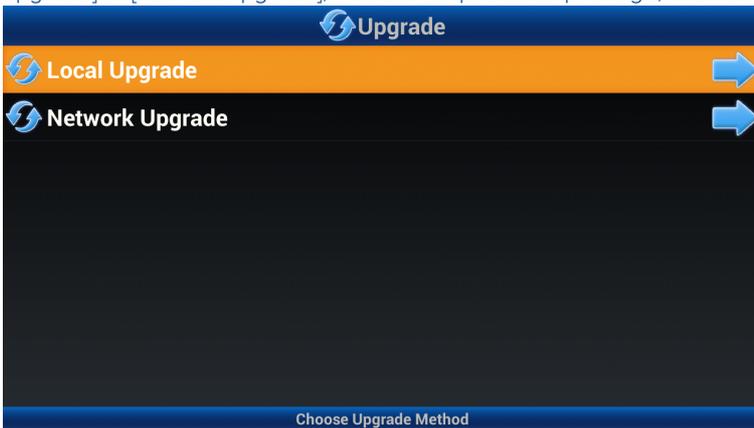


11-1

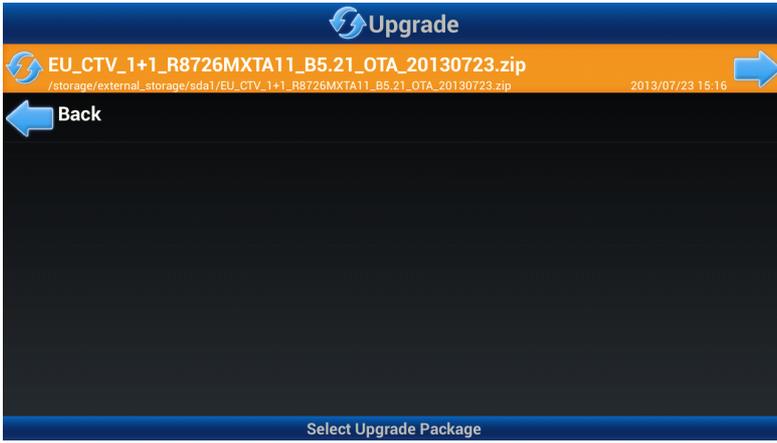
12. Upgrade



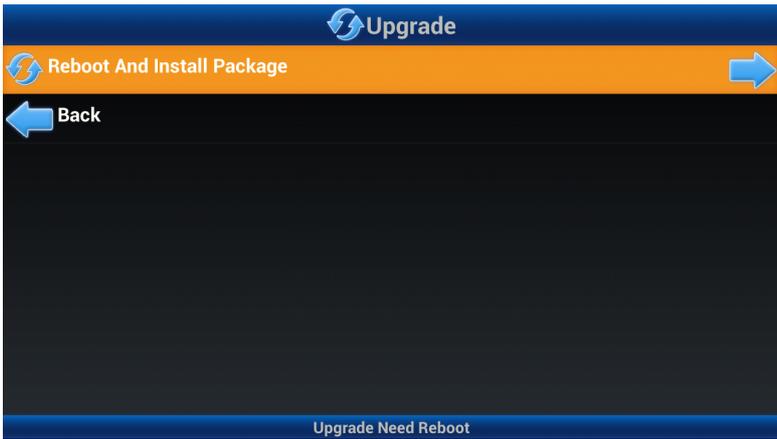
Select [system], enter upgrade application. Copy the upgrade file package to the root directory of Udisk. Select the [local upgrade] or [network upgrade], Select the update file package, and reboot and install package.



12-1



12-2



12-3

SKY MAGIC EYE

Some AQUAVISION® units are fitted with the “Sky Magic Eye” control feature.

As a standard feature, a “Sky Magic Eye” is integrated into some AQUAVISION® models. If you have chosen this option, or your model comes with it as standard, your AQUAVISION® picks up the infra red signals from your Sky remote control allowing you to control your Sky or Sky+ Digibox receiver when it is positioned in another room. To ensure that the “Sky Magic Eye” feature will work with your AQUAVISION®, it is important to set your system up correctly. To ensure it is, please follow the instructions below:

- Make sure that the main aerial or cable feed is connected to the rear of the Sky Digibox through the “aerial in” socket.
- From the “RF OUT-2” socket of your Sky Digibox, install a coax cable into your AQUAVISION®’s Sky RF input, aerial input socket. Care must be taken to use a good quality cable, (CT100 for example) and to make sure there are no “kinks”, “knots”, or tight bends in the cable. You must also make sure that if you use any distribution amplifiers, TV wall outlet plates, isolated signal boosters or splitters, that they are clearly marked as “DC BYPASS” or similar.

Enabling the “Sky Magic Eye” Control

To configure your SKY Digibox to accept signals via your AQUAVISION®, please follow the instructions below:

- Standing near your Digibox, press SERVICES using your Sky or Sky + remote control.
- Highlight the “System Setup” option and press ENTER.
- Press 0 then 1 then SELECT (zero, one, select), in quick succession. This will display the installer setup menu. (it would be a good idea to make a note of the RF Channel Number, you may need this later)
- Highlight “RF Outlets” and press ENTER
- Highlight “RF Outlet Supply” using the left/right arrows and select “ON”
- Highlight “Save New Settings” and press SELECT
- Press SKY to return to normal viewing
- Your SKY will now be able to be controlled via your AQUAVISION®

What you will now need to do is to tune your AQUAVISION® into your SKY receiver’s RF output. To do this, please follow the instructions below:

- Switch on your AQUAVISION® and select Analogue TV using the SOURCE button
- You can now either automatically or manually tune your AQUAVISION® in as detailed earlier in this manual. If you want to install the SKY Digibox manually, you will need the RF Channel Number that you wrote down earlier.

You will now be able to fully control all Sky channels on your Sky Digibox by pointing the Sky remote control at the AQUAVISION® unit.

RS232 and Infra-Red Codes*

Your AQUAVISION® is RS232 controllable via the p-pin “D” plug on the back of it. Operating codes for this are as follows. We have also included the Infra-Red codes to assist in home networking installation.

IR CODES	RS232 CODES		FUNCTION
	Command	Parameter	
03FCH1E			0
03FCH1D			1
03FCH1C			2
03FCH46			3
03FCH15			4
03FCH14			5
03FCH45			6
03FCH00			7
03FCH1F			8
03FCH1B			9
03FCH01	MUTE	00	MUTE ON
03FCH11	PWRX	99	TOGGLE ON/OFF
03FCH03	MUTE	99	TOGGLE ON/OFF
03FCH02	MUTE	01	MUTE OFF
03FCH53	LEFT	0+	DECREASE VOLUME BY 1 AND OTHER FUNCTIONS
03FCH57	RGHT	0-	INCREASE VOLUME BY 1 AND OTHER FUNCTIONS
03FCH05	ISCT	01	INPUT SCART 1
03FCH4F	ITVA	??	INPUT, TV ANALOGUE, FOLLOWED BY PRESET No EG 01 = 1
03FCH08	IDVB	??	INPUT, TV DIGITAL, FOLLOWED BY PRESET NUMBER EG 01 = 1
03FCH20	ICMP	00	COMPOSITE VIDEO INPUT
03FCH21	ISVD	00	S-VIDEO INPUT
03FCH22	IHDM	01	HDMI 1 INPUT
03FCH23	IHDM	02	HDMI 2 INPUT
03FCH47	UPXX	00	INCREASES CHANNEL BY 1 AND OTHER FUNCTIONS
03FCH4B	DOWN	00	DECREASE CHANNEL BY 1 AND OTHER FUNCTIONS
03FCH56	DUAL	01	CHANGE SOUND FORMAT
03FCH58	IAPC	00	ANALOGUE PC INPUT
03FCH04	ENTR	00	ENTER/OK
03FCH06	INFO	00	INFORMATION
03FCH24	ISCT	02	INPUT SCART 2
03FCH25	IRGB	01	INPUT RGB
03FCH5C	SLCT	00	SELECT
03FCH0F	GREN	00	GREEN
03FCH51	CYAN	00	CYAN/BLUE
03FCH13	SRCE	00	SOURCE
03FCH0E	YLOW	00	YELLOW
03FCH55	REDX	00	RED
03FCH50	EXIT	00	EXIT
03FCH43	MENU	00	
03FCH5A	ASPC	05	AUTO WIDE
03FCH26	PWRX	01	POWER ON
03FCH27	PWRX	00	POWER OFF
	ASPC	01	WIDE
	ASPC	02	PANORAMA
	ASPC	03	4:3
	ASPC	04	ZOOM
	ASPC	06	14:09
	VOLM	25	VOLUME NUMBER 25
	VOLM	50	VOLUME NUMBER 50
	VOLM	75	VOLUME NUMBER 75
03FCH0B			SLEEP
03FCH0A			STILL
03FCH07			PSM
03FCH4A			SSM
03FCH4C			-/-
03FCH1A			PREVIOUS CHANNEL
03FCH4D			PREVIOUS SIZE
03FCH54			SWAP
03FCH59			MIX
03FCH52			TEXT ON
03FCH5D			STORE
03FCH5F			FLOF/LIST
03FCH49			SIZE
03FCH5B			HOLD
03FCH16			CANCEL
03FCH17			INDEX
03FCH44			TIME
03FCH12			REVEAL
03FCH0D			TV/RADIO
03FCH0C			FAVOURITE
03FCH10			PAGE UP
03FCH19			DTV SETUP
03FCH18			GUIDE
03FCH09			PAGE DOWN

Computer Control of the System*

Your AQUAVISION® can be controlled from a computer, using the RS-232C terminal.

The input signal can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic external control of your television by your home-networking system or similar.

Connect an RS-232C cable cross-type (commercially available) to the supplied 9-pin "D" RS-232C for the connections.

This operation system should only be used by an experienced home-networking/computer installer.

Set the RS-232C communications settings on the computer to match the display's communications settings.

The display's communications settings are as follows:

Baud rate:	9,600 bps
Data length:	8 bits
Parity bit:	None
Stop bit:	1 bit
Flow control:	None

9-Pin "D" Connections are as follows:

DB9	DB25	FUNCTION
2	3	Receive Data
3	2	Transmit Data
4	7	Signal Ground

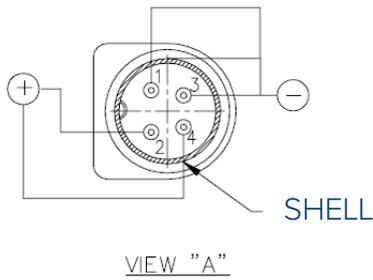
Communication Procedure

Send the control commands from the computer via the RS-232C connector. The display operates according to the received command and sends a response message to the computer of either "SUCCESS" or "FAIL". Do not send multiple commands at the same time. Wait until the computer receives the OK response before sending the next command.

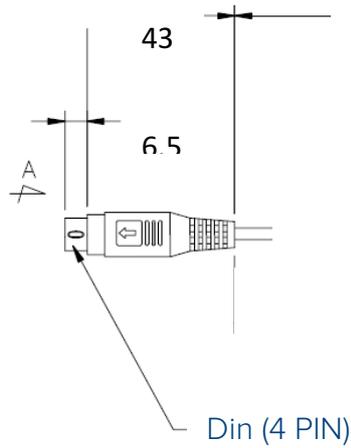
*Denotes this is an option available on certain models only

Power Supply Details

Part Number	Model/ Screen Size	Power Type	AC Input Range	AC Input [Min]	AC Input [Max]	DC Voltage [Min]	DC Voltage [Max]	Current [Max]	Current [Standby]
AVF-PSU5B	16-27"	Adaptor (24V/3A)	110-240V 50-60 Hz	90V 47Hz	264V 63Hz	23.5V	25.2V	DC 2.80A	3W
AVF-PSU5B	32-40"	Adaptor (24V/5A)				23.5V	25.2V	DC 4.80A	3W
AVF-PSU5B	65"	Adaptor (24V/8A)				23.5V	25.2V	DC 8.00A	3W



P1	P2	P3	P4
Ground	+Vcc	Ground	+Vcc
-	+	-	+



Power supply connector details



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. The below table details how many defaults are acceptable in a display before it should be replaced, within the terms & conditions of warranty. It is based on ISO13406 the international standard for pixel defects in TFT panels.

The table below shows the allowable number of malfunctioning pixels that are acceptable, These details are decided upon by the manufacturer of the actual LCD display and are not therefore subject to the discretion of AQUAVISION® or its retailers/distributors.

Panel Defect Criteria										
Dot inspection		Defect picture	Test Pattern	10.4"	17"	19"	26"	32"	40"	57"
Bright Dot	Random		Black, Gray	4	5	4	1	1	1	3
	two adjacent			1	2	1	0	0	0	1
Low dot	Random		Black, Gray	-	-	-	8	8	8	10
	two adjacent			-	-	-	0	0	0	0
	three adjacent			-	-	-	0	0	0	0
Dark dot	Random		White, R,G,B	4	7	6	8	8	8	10
	two adjacent			1	4	3	2	2	2	3
	three adjacent			0	1	1	0	0	0	1
Maximum allowable number of dot defect				8	10	10	10	10	10	15
Minimum distance between defects										
Bright dot to Bright dot			Black,Gray	All allowed	L=15mm	5mm	5mm	5mm	-	-
Dark dot to Dark dot			White,R,G,B							

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.

Warranty

Your AQUAVISION® television has a 1 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.



HEAD OFFICE AND FACTORY

Aquavision
Unit 7 Riverpark, Billet Lane
Berkhamsted, Hertfordshire
HP4 1HL
United Kingdom
+44 [0]1442 872665

AMERICAN OFFICE

Aquavision, Inc.
#197
5 Southside Drive, Suite 11
Clifton Park, NY 12065
America
+1 800 524 1804



sales@aquavision.tv
sales@aquavision.us

www.aquavision.tv
www.aquavision.us