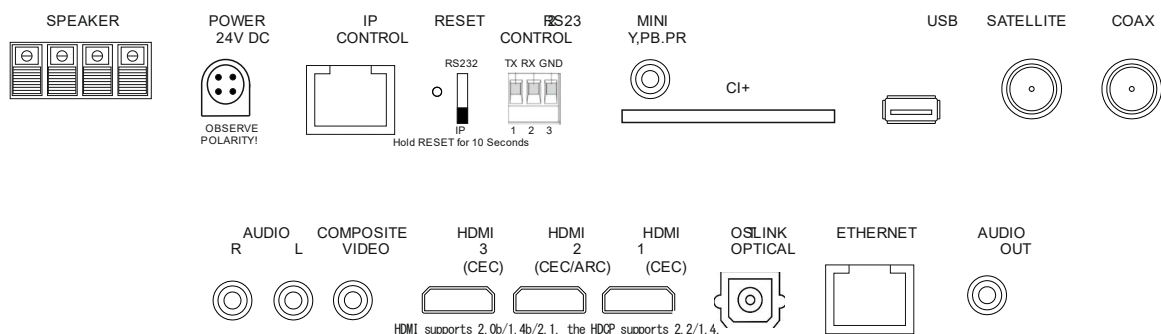


## Control Board Specification

Pinnacle 4 is the latest, class leading, 4K UHD board from Aquavision. Pinnacle 4 also offers digital and analogue, terrestrial and satellite TV receiver board able to receive both analogue [PAL/SECAM] and digital [DVB-T/T2/C/S2] television signals. It also supports H.265 video decoding. Pinnacle 2 tuner is suitable for use throughout Europe [including the UK], Ireland, and Australia etc.

- ◆ Supports panel resolution up to 3840\*2160@60Hz.
- ◆ Android 9.0 system.
- ◆ The USB slot can be used for updating software and playing multimedia and JPEG.
- ◆ HDMI 2.0b/1.4b/2.1 Compliant, HDCP 2.2/1.4 Compliant
- ◆ Support RJ45 and Wi-Fi Internet access.
- ◆ HDMI 1, HDMI 2, HDMI 3 Supports CEC
- ◆ HDMI 2 Supports ARC
- ◆ Supports H.264/H.265 MP/HP@L4.1 for SD and HD decoding
- ◆ Supports USB 2.0 multimedia play, supports audio and video play; supports txt and picture browse
- ◆ 3D video noise reduction
- ◆ Enhanced motion adaptive 3D Y/C separation comb filter for NTSC/PAL system
- ◆ Supports USB updates
- ◆ Supports HDR
- ◆ Supports video SDTV at 480i/576i and 480p/576p
- ◆ Supports video HDTV at 720p, 1080i, & 1080p, UHD at 4K
- ◆ Supports PC RGB input up to UXGA@60Hz[165MHz]
- ◆ Low Standby current <0.2W
- ◆ Bi-directional RS232, Discrete IR, and full IP control of all main features

### ◆ Connector details



## Preset Mode for USB

Please note that USB only supports PHOTO, MUSIC and MOVIE. The system automatically classifies files and only shows the supported files. Hard disk drives are supported however the maximum storage capacity is 1TB. Photos in EXIF format, and any form of flash animation are not supported.

Media	File Extension	Codec		Remark
		Video	Audio	
MOVIE	.mpg/.mpeg/.vob/.dat avi	MPEG-1/MPEG-2		1080P@60fps / 40 Mbps
		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	MP3	1080p@60fps / 40Mbps
		H.264		4K2K@30fps / 135Mbps
		HEVC/H.265	AC3*	4K2K @60fps / 100Mbps
		AVS		1080P@60fps / 40Mbps
		MJPEG	AAC	1920x1080@30fps / 40Mbps
	.mkv	H.263		1080P@60fps / 40 Mbps
		H.264	MP2	4K2K@30fps / 135Mbps
		MPEG-4		1080p@60fps / 40Mbps
		MJPEG	PCM	1920x1080@30fps / 40Mbps
		VP8		1920x1080@60fps / 20Mbps
	.mov	HEVC/H.265		4K2K @60fps / 100Mbps
		MJPEG		1920x1080@30fps / 40Mbps
		Xvid		1080p@60fps / 40Mbps
	.flv	AVS		1080P@60fps / 40Mbps
H.263			1080P@60fps / 40 Mbps	
.3gpp/.3gp	H.264		4K2K@30fps / 135Mbps	
	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		
rm*/rmvb*	RV30/RV40	COOK/MP2	1080P@60fps / 40Mbps	
dat/.vob/. mpg/.mpeg	MPEG-1, MPEG-2	MP2	Max Resolution:352x288	
.rm, .rmvb	rv30,rv40	COOK	Max Resolution And Frame Rate:1080p@60fps	
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		-



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## Features

	Type	LED
<b>ATV</b>	Receiving range	47.25MHz – 867.25MHz
	Input Impedance	75Ω
	Video System	PAL ,SECAM
	Sound System	BG, DK, I, L/L' NICAM/A2
<b>DTV</b>	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@HL, H.264 H265
	Sound System	MPEG-1 Layer 1/2, MPEG-2 Layer 2, DD, DD+
	Basic Functions	EPG, Subtitle, LCN, TELETEXT(Europe), MHEG-5(UK)
Max Storage Channels	1000CH(DVB-T/T2), 1000CH(DVB-C), 5000CH(DVB-S/S2)	
<b>PC</b>	Sync	H: 30-75KHz V: 56-75Hz
	Video Level	0.7Vp-p@75ohm
	MODE	Max Max UXGA@60Hz
<b>AV</b>	Colour system	PAL/NTSC/SECAM
	Video Level	1Vp-p@75ohm
	Audio Level	500mV rms
<b>YPbPr</b>	Video Level	Y:1Vp-p@75ohm, PbPr:0.7Vp-p@75ohm
	Audio Level	500mVrms
	Format	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
<b>HDMI</b>	Video Standard	TMDS
	Format	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 4K2K
Processor	CPU	CA9*2core@1.0G
	GPU	Mali400mp2
	O/S	android
	RAM	External 512M*2+Internal 512M
	eMMC Flash	4GB/8GB
WLAN	Max Data Rate	150Mbps/300Mbps
	Operating Frequency	2.4GHz
	Communications Standard	IEEE 802.11b/g/n
RJ45 NETWORK	10/100M auto-identification and DHCP	
AUDIO INPUT	PC Audio Audio Level 0.2----2 Vrms	
<b>OSD Language</b>	English/French/German/Spanish/Italian	
<b>Audio Amplifier</b>	2 X8W @ 8ohm THD<10%	

## Auxiliary Connections

Your Aquavision TV also has an RJ48, 10-way auxiliary connector and 2x IR connection sockets fitted to the daughter board that is positioned centrally along the bottom edge of the LCD Panel. IR connection details are on the IR sockets. This is an unmodulated signal. The RJ48 is designed for use with the Aquavision RSP5 remote switch panel, and also with the relay interface module. Technical details on these are as follows:

Connector Details	Tip	Ring	Sleeve
IR 1	IR V out(3.7V 8.1KOhm)	VCC (5V 100Ohm)	Ground
IR 2	IR V out (3. 7V 8.1KOhm)	VCC (5V 100Ohm)	Ground



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