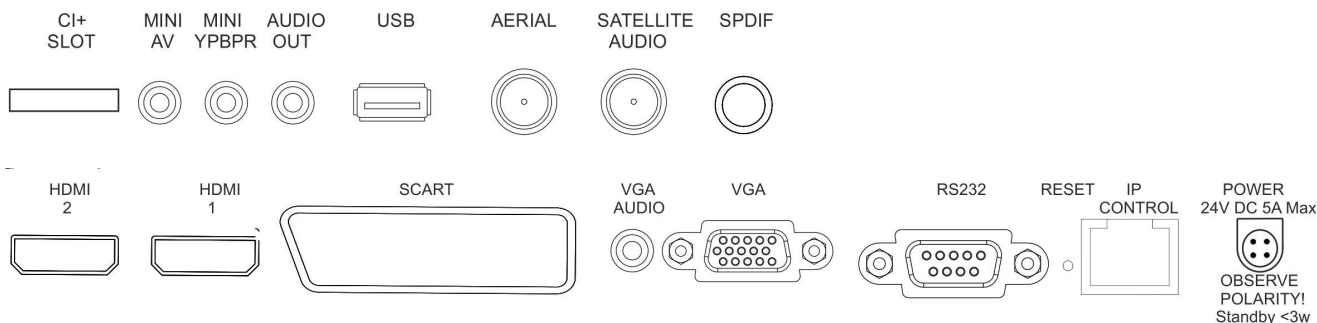


Sizes Available:

16", 22", 27", 32" and 43"

Socket Layout:



Nexus Control Board Specification

Nexus is a digital and analogue TV receiver board able to receive both analogue [PAL/SECAM] and digital [DVB-T/T2/C/S2] television signals. It also supports H.264 video decoding. Nexus is suitable for use throughout Europe [including the UK], Ireland and Australia.

- Supports DVB-T MPEG-4 extended ASP up to 1080p@30fps
- Supports 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
- Analogue and digital HD port input signal largest support 1080p
- The HDMI supports 2, the HDCP supports 2.2
- The HDMI channel can support the MHL or ARC function
- 3D video noise reduction
- Enhanced motion adaptive 3D Y/C separation comb filter for NTSC/PAL system
- Supports USB updates
- Supports video SDTV at 480i/576i and 480p/576p
- Supports video HDTV at 720p and 1080i and 1080p
- Supports PC RGB input up to UXGA@60Hz[165MHz]
- Reliable EMC and ESD handle
- Low Standby current <0.2W
- Bi-directional RS232 control of all main features
- Full IP Control with user defined IP address

Auxilliary Connections

Your Aquavision TV also has an RJ48, 10-way auxilliary connector and 2x IR connection sockets fitted to the daughter board that is positioned centrally along the bottom edge of the LCD Panel. This is an unmodulated signal and the technical details on this are as follows:

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

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.

Type	Container	Video Decoder	Max Resoluion
MOVIE	AVI	MPEG-4 ASP;H.264;DivX;Xvid	1920 x 1080
		WMV 9 / VC - 1	1920 x 1080
		MPEG-4 SP	CIF (352 x 288) QCIF (176 x 144)
		MJPEG	1280 x 720
	MPEG 1/2	MPEG-1 Video, MPEG-2 Video	1920 x 1080
	MPEG4	MPEG-2 Video;MPEG-4 ASP; H.264; Xvid;MJPEG;H.264	1920 x 1080
	WMV	WMV 9 / VC-1	1920 x 1080
	Real Media	RV30 / RV40	1920 x 1080
	Flash Sorenson	H.263; H.264	1920 x 1080
	QuickTime	MPEG-4 ASP; H.264;MJPEG	1920 x 1080
	ASF	WMV3 / WVC1; MP4S / M4S2	1920 x 1080
	Matroska Video	MPEG-2 Video; MPEG-4 ASP; H.264;Xvid; DivX;DivX Plus HD; RV30 / RV40; WMV9 / VC-1;	1920 x 1080
	DivX	MPEG-4 ASP; DivX; Xvid;	1920 x 1080
	TS Stream	MPEG-2 Video;H.264; WMV 9 / VC-1;	1920 x 1080

Type	Container	Max Resoluion
MUSIC	WAVE	LPCM; ADPCM
	WMA	WMA STD; WMA Prof
	AAC	AAC-LC / HE-AAC
	AC3	AC3; E-AC3
	MPEG	MP1; MP2; MP3; AAC-LC; HE-AAC;
	Read Audio	AAC / HE AAC; Cook
	Ogg	Vorbis
	FLAC	FLAC
	DTS	DTS
	PHOTO	JPEG
Progressive JPEG		61648
BMP		101439
PNG		101439
GIF		101439
TIFF		101439

RS232 Control and Pin Assignments

Please note that due to transmission being bidirectional, a 25ms pause should be left between each command to allow for the 'success' or 'fail' command to be read.

NOTE - RS32 CODE IS CASE SENSITIVE. PLEASE USE CAPITALS AT ALL TIMES.

IR DETAILS		
PARAMETER	TYPICAL	RANGE
0	1.12MS	1.0-1.23MS
1	2.25MS	2.0-2.4MS
LEADER	9.0MS	8.0-10.0MS
WORLD DISTANCE	108MS	-

EU Specification

PANEL	Type	LED
	Resolution Max.	1920X1080
ATV	Receiving range	49MHz – 863MHz
	Input Impedance	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-T2: COFDM QPSK, 16QAM ,64QAM , 256QAM
		DVB-C:16QAM, 32QAM, 64QAM, 128QAM, 256QAM
		DVB-S2:QPSK, 8PSK
Video System	MPEG 2 MP@HL, MPEG-2, MP@HL, H.264	
Sound System	MPEG-1 Layer 1/2, MPEG-2 Layer 2, DD, DD+	
PC	Sync	H: 30-75KHz V: 56-75Hz
	Video Level	0.7Vp-p@75ohm
	MODE	Max Max UXGA@60Hz
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	RBG: 0.7Vp-p@75ohm, CVBS: 1Vp-p@75ohm
	Audio	output/input 500mVrms
OSD Language	English/French/German/Spanish/Italian	
Audio Amplifier	2 X8W @ 8ohm THD<10%	



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