

2. Product Specification

2-1 Product Features

Block	Specification	Major IC	Remark
DMD	- Panel Resolution : 1280 x 720 (Diamond Pixel)	HD5 DMD Panel(K220 Engine)	
RF	- VSB Half Nim Tuner (ATSC/NTSC system)	DTVS305CV201A	
Power	- Input Voltage : AC110V - Stand-By : under 3W	Stand-by (KA1M0565)	
Video	- Component interface : 480i/480p/720p/1080i - Digital interface : 2 HDMI In (DVI Comportable with adaptive jack only) - DNle	ATI X240H, MST3389, DNle-Pro	
Sound	- Speaker : 10W X 2 - SRS TruSurround XT	STV8258	
Cabinet	- L6 Design		

■ Chip Description

- ATI X240H : Xilleon 240H (X240S & X240H) integrate the functions necessary to implement a digital television receiver with a minimum number of external components. The X240S/H receives DTV signals from an off-air or cable tuner, analog signals from an off-air tuner, cable tuner, or external CVBS or S-Video inputs, and digital video signals via an ITU-R BT.656 or 24-bit digital interface. All of the necessary functions are included to process the video, add graphics, perform HD or SD MPEG decode, and generate analog, 24-bit digital, or ITU-R BT.656 outputs.
- MST3389 : The MST3389 integrates both analog interfaces and DVI/HDMI compliant receivers for enabling advanced digital display devices such as digital TVs, plasma displays, LCD TVs and projectors to receive and display motion video and computer graphics inputs. Compliant with the HDMI 1.0 specification, the MST3389 enables consumer electronic devices to receive uncompressed, high quality, digital audio and video HD content over a single, low-cost HDMI cable. The MST3389 is available in a 160-pin PQFP package.
- STV8258 : The STV8258 based on audio digital signal processors (DSP), performs high quality and advanced dedicated digital audio processing. These devices provide all of the necessary resources for automatic detection and demodulation of analog audio transmissions for European and Asian terrestrial TV broadcasts.
- DNle-Pro : The 12 algorithms are applied in DNle-PRO. The 7 secondary algorithms which are NR(Noise Reduction), DE(Detail Enhancement), CE(Contrast Enhancement), WTE(White-tone Enhancement), DCE(Detail Contrast Enhancement), BWS(Black & White Stretch) and CTE(Color Tone Enhancement), and the rest, NE(Noise Estimator), CVD(Color Vision Deficiency), ISBC, PCC(Preferred Color Control), SD3(3-SD H scaler).

2-2 Key Features

Model	PT50DL24	PT61DL34
Voltage	AC 110-120V~	AC 110-120V~
Frequency of Operation	60Hz	60Hz
Power Consumption	200 watts	200 watts
Dimensions (W x D x H)	46.54 x 14.13 x 34.25 inches 1182 x 359 x 870 mm	56.93 x 18.27 x 41.65 inches 1446 x 464 x 1058 mm
Weight	36 Kg / 79.37 lbs	49 Kg / 108.02 lbs

■ H/W Configuration

- DMD Panel : 0.45" (1280 x 720p, TI)
- 1 Optical Engine for the Panel : Slim and Cost-effective
- Color Wheel : R/G/B/Y/C Color Implementation
- Lamp : 120W (10,000 hours) → Dynamic Mode 150W Drive (6,000 hours)
- Support HDMI Interface : Adopts DVI/HDMI systems for digital HDs including STB.
- DNle3 : High quality image implementation
- USB Interface : Adopts WiseLink(USB1.1)

■ S/W Configuration

- MCU : Built-in 264 MHz MIPS X240H CPU
- 4-Layered Architecture : Device Driver/OS/Hardware Abstraction/Application
- OSD : 32Bit True Color Graphics OSD
- Enhanced system stability by separating the DTV control and the application control systems into multi-processes.

■ Picture

- DMD Panel
 - * Panel Size : 0.45"
 - * Panel Resolution : 1280 x 720 (Diamond Pixel)
- Tuner : Integrated HDTV Tuner (NTSC/ATSC TUNER Embedded)
- Display Format : 1280 x 720 (Diamond Pixel)

■ Sound

- Sound System : Dolby Digital
- Amp/Channel : 2 Channel Digital Amp
- Speaker System & Output(RMS)
 - * Main L/R : 10W + 10W
 - * Sound (RMS) : 10W + 10W

■ In/Out Terminals

- Side : 1 CVBS In, Wiselink
- Rear : 2 RF In, 2 CVBS In, 2 S-VHS In, 2 Component In, 2 HDMI In(DVI compatible With Adaptive Jack Only), 1 Optical audio out, 1 Monitor out, 1 PC in

■ Feature

- Component Interface (480i/480p/720p/1080i, Y/Pb/Pr)
- Digital Interface : 2 HDMI In(DVI compatible with adaptive jack only)
- Language : English/French/Spanish
- Picture Size : 4:3/16:9/Zoom1/Zoom2/Wide Fit
- V-CHIP
- Closed Caption
- Sleep Timer : 180 Min.
- Optical sound output
- Game mode
- PC input
- Wiselink






■ Remocon

- TM87B

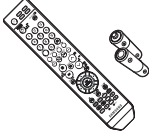









■ Power Supply

- 110V

2-3 Specifications Analysis

Model		HLS4266W	HLS4666W	HLS5065W	PT50DL24X	HL-R4266W
Design						
Picture	Display Device	DLP	DLP	DLP	DLP	DLP
	Built-in Tuner	ATSC, NTSC	ATSC, NTSC	ATSC, NTSC	ATSC, NTSC	ATSC, NTSC
	Display Format	1080i, 720p, 480p, 480i	1080i, 720p, 480p, 480i	1080i, 720p, 480p, 480i	1080i, 720p, 480p, 480i	1080i, 720p, 480p, 480i
	Screen Size	42 inch	46 inch	50 inch	50 inch	42 inch
	Aspect ratio	16:9	16:9	16:9	16:9	16:09
	Progressive scan	Yes	Yes	Yes	Yes	Yes
	Digital Comb Filter	3D Comb	3D Comb	3D Comb	3D Comb	4H Comb
	First Surface Mirror	Yes	Yes	Yes	Yes	Yes
	Brightness	750cd/m ²	750cd/m ²	750cd/m ²	750cd/m ²	750cd/§ ³
	Contrast	1500:1	1500:1	1500:1	1500:1	1500:1
	Color Wheel Size/Bearing	7segment/65 φ , Air Bearing	7segment/65 φ , Air Bearing	7segment/65 φ , Air Bearing	7segment/65 φ , Air Bearing	7segment/65φ6 Air Bearing
	Anti-glare Sun Screen	No	No	No	No	No
	Screen Pitch	0.098mm	0.098mm	0.098mm	0.098mm	0.098mm
Image enhancer	DNle3	DNle3	DNle3	DNle3	DNle3	
Audio	Base/Tremble/Balance	No	No	No	No	No
	Equalizer	5 Band	5 Band	5 Band	5 Band	5 Band
	Auto Volume Leveler	Yes	Yes	Yes	Yes	Yes
	Surround Sound	TruSurround XT Dolby Digital	TruSurround XT Dolby Digital	TruSurround XT Dolby Digital	TruSurround XT Dolby Digital	DNSE Dolby Digital
	Speaker system	2Way 2Speaker	2Way 2Speaker	2Way 2Speaker	2Way 2Speaker	2 Way 4 Speaker
	Output Power	10Wx2	10Wx2	10Wx2	10Wx2	15Wx2
Features	2-Tuner Split-Screen PIP	No	No	No	No	Yes(HD/SD)
	Split-screen Side-by-Side	No	No	No	No	Yes
	MTS with dbx Noise Reduction/SAP	Yes	Yes	Yes	Yes	Yes
	Still Picture	Yes	Yes	Yes	Yes	Yes
Connections	Plug & Play	Yes	Yes	Yes	Yes	Yes
	EPG	No	No	No	No	No
	Anynet	No	No	No	No	Yes
	S-Video In	Rear 2	Rear 2	Rear 2	Rear 2	Rear 2/Side 1
	HDTV Component Video Input (Y, Pb, Pr) 1080i/480P/480i	Rear 2	Rear 2	Rear 2	Rear 2	Rear 2
	PC	yes	yes	yes	yes	No
	HDMI	2HDMI	2HDMI	2HDMI	2HDMI	Yes
	Digital Sound	Optical 1	Optical 1	Optical 1	Optical 1	Optical 1
Wiselink	yes	yes	yes	yes	No	

2-4 Accessories

	Accessories	Item	Item code	Remark
Supplied Accessories		Remocon Alkaline Battery	BP59-00116B 4301-000101	Internal shopping mall
		Manual	BP68-00548B	
		Power Cord	3903-000144	
		Warranty Card	AA68-00371C	
Accessories that can be purchased additionally		HDMI/DVI cable	-	Internal shopping mall
		HDMI Cable	-	
		S-VIDEO Cable	-	
		Optical Cable	-	
		Antenna Cable	-	
		Component Cables (RCA)	-	

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