

## 2. Product Specification

### 2-1 Product Features

Block	Specification	Major IC	Remark
DMD	- Panel Resolution : 1280 x 720 (Diamond Pixel)	HD3 DMD Panel(L3 Engine) HD4 DMD Panel(L620 Engine)	
RF	- Integrated HDTV Tuner (NTSC/ATSC/QAM TUNER Embedded)	ATI T313	
Power	- Input Voltage : AC110V - Stand-By : under 30W	Stand-by (KA1M0565)	
Video	- DNIe3- NTSC, ATSC- HDM	ADV7401, ATI X226B	
Sound	- Speaker : 15W x 2 - Dolby Digital	MSP4440	
Cabinet	- L6 Design		

#### ■ Chip Description

- ATI x226B : Xilleon 226 is the most advanced and highly integrated component for digital set-top boxes, information appliances, and televisions. Xilleon 226 provides dual-stream high-definition decode and display, an assortment of peripheral device controllers, and an embedded microprocessor.
- ADV7401 : The ADV7401 is an integrated video decoder that automatically indicates and converts High Definition or Standard Definition analog baseband television signal into a 4:2:2 component digital video data stream compatible with 20/16-bit or 10/8-Bit CCIR601/CCIR656 outputs for standard definition & SMPTE293M/296M/274M & ITU-R.BT1358 for High definition. All RGB graphics signals are output as 30-bit 4:4:4 RGB or 20-bit 4:2:2 YCrCb.
- MSP4440 : The MSP 44x0G family of single-chip Multistandard Sound Processors covers the sound processing of all analog TV-Standards worldwide, as well as the NICAM digital sound standards.
- ATI T313 : ATI T313 is an advanced QAM, NTSC, and VSB demodulator chip designed to operate in the Digital Cable Ready, analog NTSC, and ATSC terrestrial broadcast environments. ATI T313 also incorporates a QPSK forward data channel (FDC) receiver and a BTSC/Dual-FM demodulator and decoder enabling a complete digital and analog TV solution with a minimum number of components.

## 2-2 Key Features

Model	PT50DL14X
Voltage	AC 110-120V~
Frequency of Operation	60Hz
Power Consumption	230 watts
Dimensions (W x D x H)	46.45x14.15x34.25 inches 1182x358x870 mm
Weight	35.5 Kg / 78.2 lbs

### ■ H/W Configuration

- DMD Panel : 0.55" (1280 x 720p, TI)
- 1 Optical Engine for the Panel : Slim and Cost-effective
- Color Wheel : R/G/B Color Implementation
- Lamp : 100W (10,000 hours) → Dynamic Mode 120W Drive (6,000 hours)
- 2 NTSC/ATSC/QAM Tuners : NTSC/DTV Reception
- Support HDMI Interface : Adopts DVI/HDMI systems for digital HDs including STB.
- DNIe3 : High quality image implementation
- AnyNet Feature : An enhanced interface for various external devices
- USB Interface : Use the USB interface for service purposes (S/W Upgrade)

### ■ S/W Configuration

- MCU : Built-in 300 MHz MIPS X226B 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 : 0.55"
  - \* Panel Resolution : 1280 x 720 (Diamond Pixel)
- Tuner : Integrated HDTV Tuner (NTSC/ATSC/QAM 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 : 15W + 15W
  - \* Sound (RMS) : 15W + 15W

### ■ In/Out Terminals

- Side : 1 CVBS In, 1 S-VHS In
- Rear : 2 RF In, 2 CVBS In, 2 S-VHS In, 2 Component In,  
1 HDMI In(DVI Comportable With Adaptive Jack Only), 1 Anynet port, 1 Optical audio, 1 POD Card slot

■ Feature

- Component Interface (480i/480p/720p/1080i, Y/Pb/Pr)
- Digital Interface : HDMI
- Language : English/French/Spanish
- PIP : HD/SD PiP
- Picture Size : 4:3/16:9/Zoom1/Zoom2/Panorama
- V-CHIP
- Closed Caption
- Sleep Timer : 180 Min.
- Anynet Interface
- Optical sound output
- POD

■ Remocon

- TM65




■ Power Supply

- 110V







■ PIP Settings (X : PIP doesn't operate, ○ : PIP and swap operate)

Main \ Sub	ATSC	Air NTSC	Cable Digital	Cable NTSC	Composite 1/2/3	S-VHS 1/2	Component 1/2	HDMI	PC
ATSC	X	X	X	X	X	X	X	X	X
NTSC	○	X	○	X	X	X	X	○	X
Cable Digital	X	X	X	X	X	X	X	X	X
Cable NTSC	○	X	○	X	X	X	X	X	X
Composite 1/2/3	○	X	○	X	X	X	X	X	X
S-VHS 1/2	○	X	○	X	X	X	X	X	X
Component 1/2	○	X	○	X	X	X	X	X	X
HDMI	X	X	X	X	X	X	X	X	X
PC	X	X	X	X	X	X	X	X	X

## 2-3 Specifications Analysis

Model		HL-R4667W /HL-R5067W /HL-R5667W	HL-R5087W /HL-R5687W	PT50DL14X
Design				
Picture	Display Device	DLP	DLP	DLP
	Built-in Tuner	ATSC, NTSC	ATSC, NTSC	ATSC, NTSC
	Display Format	1080i, 720p, 480p, 480i	1080i, 720p, 480p, 480i	1080i, 720p, 480p, 480i
	Screen Size	46 inch/ 50 inch/56 inch	50 inch/ 56 inch	42 inch
	Aspect ratio	16:9	16:9	16:09
	Progressive scan	Yes	Yes	Yes
	Digital Comb Filter	3D Comb	3D Comb	4H Comb
	First Surface Mirror	Yes	Yes	Yes
	Brightness	750cd/ m <sup>2</sup>	800cd/ m <sup>2</sup>	750cd/§ <sup>3</sup>
	Contrast	1500:1	2500:1	1500:1
	Color Wheel Size/Bearing	7segment/65, Air Bearing	7segment/65, Air Bearing	7segment/65, Air Bearing
	Anti-glare Sun Screen	Yes	Yes	Yes
	Screen Pitch	0.098mm	0.098mm	0.098mm
Image enhancer	DNle3	DNle3	DNle3	
Audio	Base/Tremble/Balance	No	No	No
	Equalizer	5 Band	5 Band	5 Band
	Auto Volume Leveler	Yes	Yes	Yes
	Surround Sound	TruSurround XT Dolby Digital	TruSurround XT Dolby Digital	DNSE Dolby Digital
	Speaker system	2 Way 4 Speaker	2 Way 4 Speaker	2 Way 4 Speaker
	Output Power	15Wx2	15Wx2	15Wx2
Features	2-Tuner Split-Screen PIP	Yes(HD/SD)	Yes(HD/SD)	Yes(HD/SD)
	Split-screen Side-by-Side	Yes	Yes	Yes
	MTS with dbx Noise Reduction/SAP	Yes	Yes	Yes
	Still Picture	Yes	Yes	Yes
Connections	Plug & Play	Yes	Yes	Yes
	EPG	Gemstar EPG	Gemstar EPG	NO
	Anynet	Yes	Yes	Yes
	S-Video In	Rear 2/Side 1	Rear 2	Rear 2/Side 1
	HDTV Component Video Input (Y, Pb, Pr) 1080i/480P/480i	Rear 2	Rear 2	Rear 2
	PC	Yes	No	NO
	HDMI	Yes	Yes	Yes
Digital Sound	Optical 1	Optical 1	Optical 1	

## 2-4 Accessories

	Accessories	Item	Item code	Remark
Supplied Accessories		Remocon Alkaline Battery	BP59-00100A 4301-000101	-
		Manual	BP68-00548A	
Accessories that can be purchased additionally		Video Cable / Audio Cable	-	Internal shopping mall
		Antenna Cable	-	
		Component Cable	-	
		Optical Cable	-	

# MEMO