

PDP TV with World's First Built in DVB HD Tuner

# PAU-42THD

Experience ultimate home entertainment with revolutionary picture clarity.



**HUMAX**



# PAU-42THD

**Marvelous HUMAX technology has changed the merits of TV. Now we unleash more excitement with multimedia TV.**

For those of you who demand the most from your television, HUMAX proudly presents the PAU-42THD, with world's first built in DVB HD tuner. The state-of-the-art 42-inch PDP TV screen reduces unwanted distortion and glare, while its 16:9 wide screen aspect ratio brings the excitement of cinema right to your living room. DVD viewing is pure pleasure with the Progressive Scan (1080i/720p/480p) feature. Best of all, the built in HDTV tuner gives you crystal-clear digital viewing every time.



## Why High Definition?

Digital television has not only overcome some of the basic problems with traditional analogue signal such as interference and ghosting, it has increased the number of channels available and provided the basis for interactive content.

Conventional analogue signal





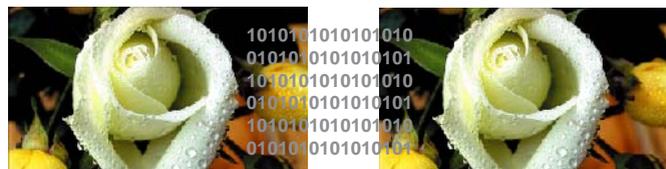
Still, picture quality has always left something to be desired. High definition television pushes past basic digital signal with sharper, more realistic picture quality.

Superior digital signal



- \* Optimal picture quality
- \* Extraordinarily rich colour
- \* Sharper, crystal-clear images
- \* Spectacular levels of detail
- \* Widescreen broadcasts

High definition digital signal



### Easy Navigation & User Friendly UI

You can access a wide range of information through easy navigation and convenient user interface.

#### \* EPG(Electronic Programme Guide) / Information Bar / Channel List

Provides easy navigation and a variety of useful data

#### \* Simple Channel Search

Provides channel search through analogue and digital channels

#### \* Easy AV Conversation

Provides easy conversion of versatile AV interface





### Colour Enhancement

Advanced colour enhancement functions work together to customize every image on screen. Accurate Colour Reproduction (ACR) reconciles the difference between colour attributes of TV display and those seen by the human eye to produce accurate reproduction of colour images. With Favourite Colour Transfer (FCT), specific colours can be enhanced according to your preference. Auto Contrast function provides automatic contrast adjustment of each image frame, while black and white levels are automatically enhanced with Black and White Stretch function.



### High Speed Motion Adaptive Function

Because movie film produces 24 frames per second while TV programme produces 24 frames, distortion occurs during a TV broadcast of a movie caused by the forced display of 1 extra frame. By detecting and preventing the extra frames, the PAU-42THD gives you clear, undistorted movies in their true cinematic form. (For PAL Signal)



A poor quality picture with afterimages is a result of slow response speed.



A sharper, crisper picture is a result of faster response speed.



### Distortion-free Resolution

This feature converts low resolution analogue images into high resolution HD images. Even a DVD SD image or a low resolution analogue media is transformed into a crisper HD quality image with the application of Faroudja DCDi. You can now enjoy optimal resolution with every image.





### 3D Comb Filter

Continuous real-time analysis of image brightness enables reproduction of optimal shade ratio. By distinguishing between the boundaries of images and maximizing brightness, this filtering function ensures the most precise, detailed image on your screen.



### Noise Minimiser

Eliminating noise in analogue video signals and reproducing clear images, this technology enables automatic noise quality analysis and comparison per image frame, providing advanced clarity in every frame.



### Natural Colour

You're treated to images so stunningly vivid and real they jump right at you. Saturation and brightness are automatically adjusted like a sound in an audio equalizer, and every colour in its natural splendor is yours to enjoy. Even unnatural skin tones or blue and green colours are reproduced in natural and realistic images.

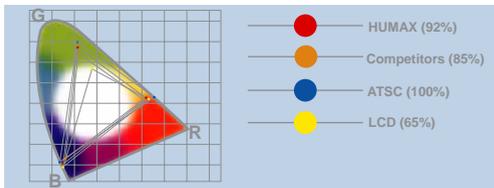




### Spectacular Colour Expression

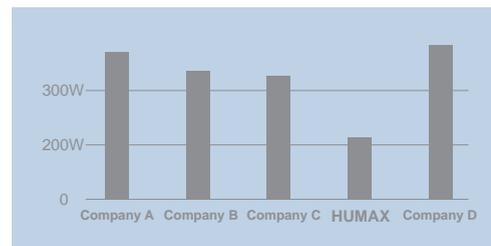
1) **Amazing colour reproducibility: 92%**  
 Specific colours are adjusted by this state-of-the-art colour tuning function. Compare our 92% reproducibility with a competitor's product achieving 85%. Another competitor provides a mere 65% in a 37" LCD TV.

2) **Amazing colour purity**  
 Unnecessary frequency components of R(Red), G(Green), and B(Blue) are eliminated to express each colour in its natural state.



### Low Power Consumption

Using the lowest possible power consumption of 230W, in comparison with similar products in the market, PAU-42THD is highly economical.



### Surprise Sound

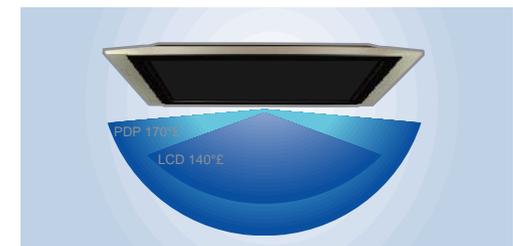
By adding perspective, direction and dimension to basic audio from broadcast and a variety of media, viewers are treated to home theatre sounds as if they were right in the action.

**SRS TruSurround XT application**  
 TruSurround + TruBass + Focus (surround sound, refined bass, improved clarity)



### Wide Field of Vision

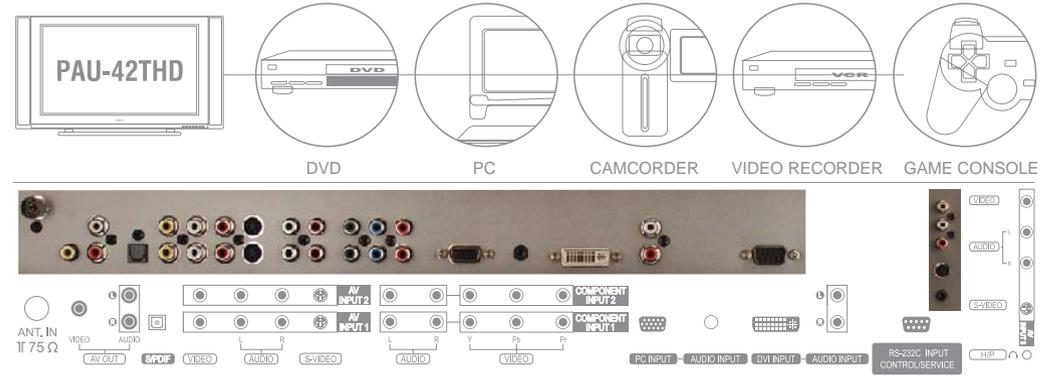
Enjoy clear images from any direction - up, down, left, or right - within a 170° degree angle.





## Multiple Interface

With a single TV, you get digital broadcast and Pay TV, along with conventional analogue broadcast. You can choose the entertainment media that tickles your fancy by connecting an array of compatible devices - DVD player, PC, camcorder, VCR, or RGB game console such as Xbox.



## The Best in the Industry: 68.7 Billion Shades of Colour

The HUMAN Gamma correction technology enables the display 4,096 shades of gradation, translating to 68.7 billion colours, which is the highest in the industry. Now detailed, realistic reproduction is possible even with dark frames. With 3 types of Gamma correction modes, you're ensured the sharpest image in any frame.



## Ultra Contrast

Through technology which optimizes contrast of black and white levels of TV display, image histogram is constantly analyzed and content contrast levels are adjusted in real time. Viewers are treated to rich image reproduction every time.

## Multiple Screen Display

With Picture in Picture (PIP) and Twin Screen functions, it's like having two TVs in one. While watching one programme, you can check on what's happening on another channel. You can even choose between split or embedded screen.



## 3 Kinds of Colour Temperature Setting Mode

The colour temperature setting function allows you to adjust the tones of white. The three preset modes allow you to set the colour temperature of your choice.



## PAU-42THD

<b>PDP</b>		
Type		
Display Area	42" (1060mm)	
Screen Size	918 (H) * 518 (V)	
Aspect Ratio	16 : 9	
Display Color	68.7 Billion	
Resolution	1024 * 768	
Pixel Pitch	0.897 (H) * 0.675 (V)	
Contrast Ratio	1000 : 1	
Luminance of White	1000 cd/	m <sup>2</sup>
Viewing Angle (CR ≥ 10)	160	°(H) / 160°(V)
Module Size	987.0 (H) * 584.0 (V)	
Depth (D)	63.6 mm	
<b>Weight</b>		
Net weight	40 Kg	
<b>Sound</b>		
Speakers	Mono / Stereo / Nicam / A2	
Audio Output	15W + 15W (Max.)	
<b>Power</b>		
Supply	AC 100 ~ 240V	
Consumption	230W (working)	
<b>DTT System Resources</b>		
CPU	Zoran	TL955B2-SH
FLASH Memory	8 Mbytes	
Graphics (MPEG) & System Memory	64 Mbytes	
EEPROM	16 Kbytes	

<b>Tuner (Analog and Digital)</b>		
1 Input Connector	IEC-T type, IEC 169-2, Female	
Analog Receiving System	P AL / SECAM-VS Tuning	
Frequency Range	48.5MHz to 219.5Hz (VHF) / 529.5MHz to 816.5MHz (UHF)	
Signal Level	-10 to -70 dbm	
Constellation Scale Factor	1, 2 and 4, Non-hierarchical	
<b>Demodulator</b>		
Waveform	OFDM	
Mode	2K, 8K	
Codes Rates	1/2, 2/3, 3/4, 5/6 & 7/8	
Guard Intervals	1/4, 1/8, 1/16 & 1/32	
<b>Video Decoder</b>		
Transport Stream	MPEG-2 ISO/IEC 13818	
Profile Level	MPEG-2 Main Profile @ High Level (HD)	
Input Rate	Max. 80Mbits/s	
Video Formats	4:3, 16:9 letter box, Pan & Scan	
Video Resolution	Max. 1920 * 1080	
<b>Audio Decoder</b>		
Audio Decoding	MPEG/MusicCam Layer I & II, Dolby	AC-3
Audio Mode	Single / Dual mono / Stereo / Joint stereo	
<b>Input / Output</b>		
Video In / Output	3 Composite input + 1 Composite output	
S-VHS Input	3 Mini Din 4-pin jack	
Component Input	2 Component	
PC RGB Input	D-sub 15 pin + DVI input	
PC Audio Input	Stereo Jack	
Headphone Output	Stereo Jack	
S/PDIF Output	Optical	
RS-232C	9 Pin	

