



DigitAll perfection

Samsung DLP™ TV
2002 Collection



For more information, log on to www.samsungusa.com/dlp

©2002 Samsung Electronics USA, Inc. Specifications and design are subject to change without notice. Non-metric weights and measurements are approximate. All brand, product, service names and logos are trademarks and/or registered trademarks of their respective manufacturers and companies. Simulated screen images. DLP and DLP Medallion are registered trademarks of Texas Instruments Incorporated. Printed in USA.



DLP™ TV



Shown: HLM617W, 61" DLP™ TV

Experience perfect vision

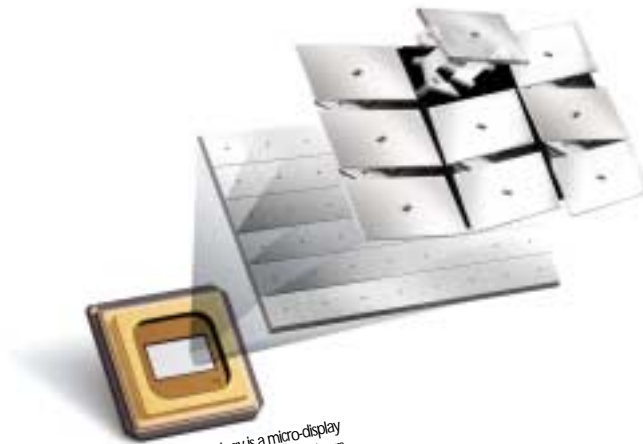
Samsung's DLP™ TV delivers unmatched brightness, contrast levels and color accuracy, plus full digital convergence and a host of top-notch features. Its sleek design and lightweight construction also make this monitor the most attractive and versatile TV your home has ever seen.



True harmony of design,
performance and value



HDTV monitor with DLP™ technology



The heart of DLP™ technology is a micro-display panel that integrates 921,600 microscopic mirrors.

Digital Light Processing (DLP™) technology is found in leading digital cinemas the world over. The heart of DLP™ technology is a micro-display panel no larger than a postage stamp, which integrates 921,600 microscopic mirrors to deliver eye-popping, high definition detail, color and clarity. Samsung applies the magic of DLP™ technology to your home theater via its patented, compact optical engine that replaces the large, heavy picture tubes found in direct-view sets. Best of all, Samsung DLP™ TVs are lighter, more affordable and use far less power than plasma TVs. Now you can enjoy the spine-tingling thrills of digital television in a sleek, table-top design that's significantly smaller, lighter and brighter than a conventional projection TV. Samsung's advanced convergence technologies also make the Tantus series HDTV monitor compatible with your HDTV tuner, PC, DVD, game console, VCR, camcorder, digital camera, and much more.

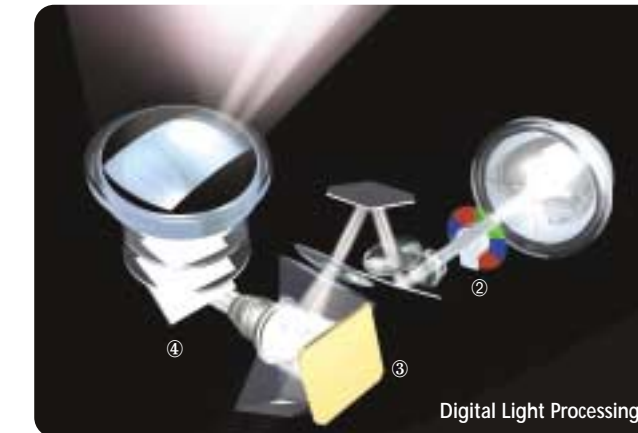




User-friendly, attractive,
intelligent TVs

Samsung optical engine

Samsung's patented optical engine ensures maximum brightness, flicker-free video, detailed text and still images, and a full 160-degree viewing angle. DLP™ micro-display technology and Samsung's proprietary Bent Light Lens System give you a big-screen TV without the big-screen hassle. Its ultra-slim, ultra-lightweight design lets you put it virtually anywhere. And its optical engine is durable, long-lasting, and never needs calibrating.



- ① Light source – Samsung uses a 100-Watt Ultra-High-Pressure (UHP) lamp, which maintains uniform brightness over its 8,000-hour life. * Replace the bulb after it expires, and the DLP™ performs like new again.
- ② Color wheel – The Samsung Color Management System™ (SCMS) uses a six-segmented wheel (two reds, two greens, two blues) to create brilliant and accurate colors never before seen on a standard TV.
- ③ DLP™ panel – Texas Instruments' second-generation DLP™ chip comes closer than any other display to reproducing an exact mirror image of its source material. The 921,600 mirrors on the DLP™ chip are less than one micron apart, resulting in a seamless digital picture that's sharp at any size.
- ④ HD lens – Processed light reflected from the DLP™ Panel is projected and expanded by a lens specially designed to handle the challenge of high-resolution images.

Micro Fine Pitch Screen – The brilliant images you see appear on a micro-fine pitch (0.155mm) screen with anti-glare coating, which offers eye-popping clarity and a very wide viewing angle (160 degrees).

* HLM617W uses a 120-Watt/6,000 hour lamp.

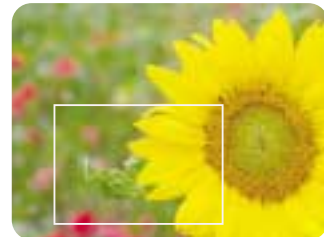


DigitAllclarity

DLP™ TV delivers the perfect picture

DLP™ technology is the only display solution that enables projection systems to create a purely digital connection between a digital video or graphic source and the screen in front of you.

Bringing detail to life



Seamless and lifelike
(DLP™ TV)



Grainy and pixelated
(Conventional TV)



Contrast ratio 1000:1
(DLP™ TV)



Contrast ratio 600:1
(Conventional TV)

Lifelike picture

The surface of the DLP™ panel is covered with almost a million micro-mirrors (1280 x 720), that act as pixels. This incredibly high pixel count creates a striking, digital image with seamless resolution, amazing detail and brilliant, lifelike colors. And because the pixels are less than one micron apart, you won't notice the "screen door" effect apparent with other TVs.

Ultra-smooth action

Samsung's DLP™ micro-mirrors can switch on and off over 5,000 times a second – that's up to ten times faster than other micro-displays. This allows DLP™ TV to smoothly and accurately display fast-switching content like HDTV and DVD.

Brighter and clearer

At 400 cd/m², DLP™ outshines other micro-display technologies for a bright, clear picture, with incredible contrast and color accuracy. Its unique optical engine preserves the intensity of the original image with vibrant colors and rich, deep blacks. Its high, 1000:1 contrast ratio makes for ideal color separation and crisp, detailed images. That's why Samsung DLP™ is perfect for any source material that demands minute detail, such as HDTV, computer images and DVDs.

Consistent screen image

The DLP™ TV is much more durable than competing technologies because the display doesn't physically age or deteriorate. Its Ultra-High-Pressure lamp delivers consistent light output and picture quality throughout its long lifespan.

DigitAllversatility

Virtually unlimited convergence

Samsung DLP™ TVs are multimedia-ready. They provide multiple sets of inputs and outputs to offer you maximum flexibility to expand your home theater. They can handle your PC, DVD, game console, HDTV receiver, satellite dish, camcorder and more. Plug-and-play has never been more convenient – just plug into the side or rear jacks, and the TV automatically identifies your device. Add Samsung's versatile picture-in-picture (PIP) options, and you can surf the Web while watching TV.



Great for watching TV, movies and sports.



Crystal-clear text images allow your DLP™ TV to double as a computer monitor.



HD component video inputs

This enables the Tantus to receive any digital broadcast, whether from terrestrial sources, satellite receivers or cable. For seamless connection to your favorite digital media, try Samsung's HDTV tuners.

DVI HDTV interface

DVI input enables an all-digital rendering of video without the losses associated with an analog interface. DVI adds the quality and functionality of a digital interface, while maintaining the simplicity of supporting uncompressed video formats.



- Two HD component inputs
- One DVD Input
- One PC Input



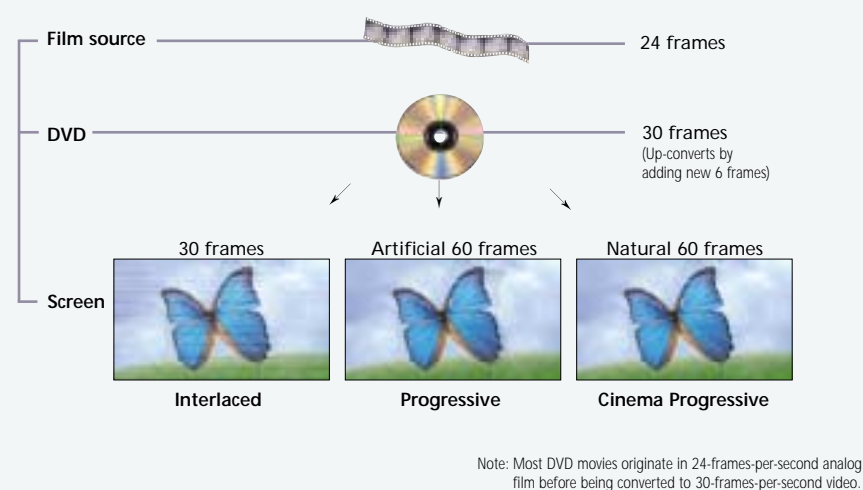
HDTV Tuner

Digital Visual Interface

DigitAllsensation

Cinema Progressive Scan and 3:2 Pull Down

The Cinema Progressive Scan enhancement automatically up-converts all non-digital signals to a smooth, clear 720 lines of progressive scan. The 3:2 pull down feature is a must for any movie enthusiast. It analyzes each frame of video, removing unclear frames that were added during the transfer from film to video. These added frames cause blurring, stuttering and other motion artifacts, especially during fast-action sequences. 3:2 pull down eliminates them and gives your DVDs a look and feel that's much closer to film. Cinema Progressive Scan with 3:2 pull down is powered by Faroudja's patented DCDi™ video processing on Tantus models.



1280 x 720 progressive display quality

Samsung delivers flicker-free, static images, thanks to its all-format conversion system. Progressive scan is a must for rock-steady text, still images and smooth action sequences.



Interlaced Scan



DLP™ TV 720P Progressive Scan

Wide viewing angle

Left side, right side or upside-down* – whatever your location, Samsung DLP™ TVs allow you to see any display clearly, thanks to its 160-degree-wide viewing angle. Unlike traditional projection TVs, the image doesn't get darker as you move away from the center.

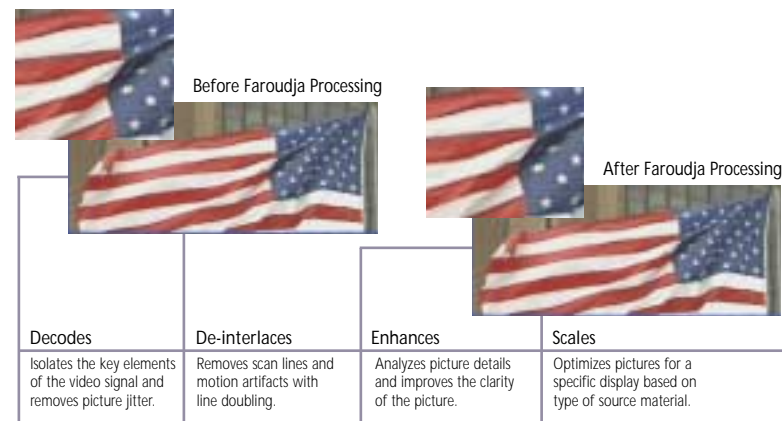


* Requires optional service setup.

DCDi™ Digital Processing by FAROUDJA



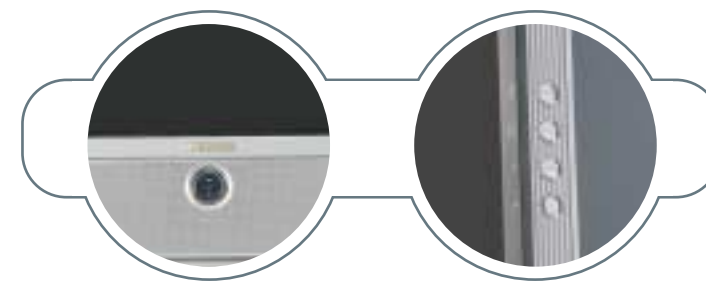
DCDi™ (Directional Correlational Deinterlacing) is the highest-quality video processing for any video format (DVD movies, HDTV broadcasts, game consoles). It creates cinema-quality images, and adds vibrancy and depth. Available on all Tantus models (HLM617W, HLM507W and HLM437W).



DigitAllwow

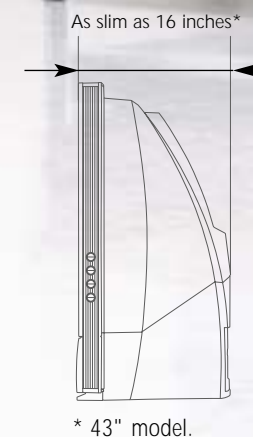
Sleek and lightweight design

Samsung's DLP™ TV gives you the best of all worlds. At less than 18" deep and under 78 lbs, you can put a 50", widescreen DLP™ TV in places you never thought possible. And unlike plasma TVs (costing nearly twice as much), no special mounting brackets, wiring or outlets are required. No other TV combines a brilliant picture, convenience, value, and "wow factor" like Samsung's DLP™ TV.



Sound Reality

The Samsung DLP™ TV has four built-in speakers and a 30-Watt Virtual Dolby sound system. Tantus models incorporate Barkus Berry Electronics Sound Clarifying technology, which creates more lifelike sound and clearer dialog.



DigitAllconvenience

Multi-function picture choices

Five picture formats

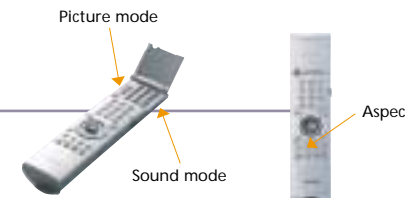
Choose the perfect aspect ratio for what you're watching, whether it's sports, TV or movies. Choose from Wide, Panorama, Zoom1, Zoom2 or Normal.

Picture mode

Adjust the picture settings and color temperature to suit your programming. Choose from Mild, Standard, Movie or Custom settings.

Multi-picture format

Five audio pre-sets give you the best dynamic sound settings for what you're watching. Choose from Standard, Music, Movie, Speech or Custom.



Melody On/Off

Samsung Projection TVs turn on and off with a clear, pleasant melody. This sound lets you know that the TV is being switched on or off.



Favorite channel

You can program your favorite channels for easy access and quick channel surfing. Get to your favorite shows faster, and skip those channels that you rarely watch.

2-tuner PIP and split-screen side-by-side

Samsung lets you simultaneously watch two TV programs – or a TV program and a DVD or other source. You can even re-size or re-position the PIP window.



Split Screen

2-Tuner PIP

Auto volume leveler

The Auto Volume Leveler stabilizes sound output to avoid rapid volume shifts from channel changes or commercials.



Tantus models

Experience perfect vision

Samsung's DLP™ TVs deliver an unmatched combination of picture quality, digital convergence, features and lightweight convenience, making them the most attractive and versatile TVs you've ever seen.



HLM617W

DNle™ Video Enhancer (HLM617W only)
Samsung's Digital Natural Image engine enhances all video inputs for an overall improvement in picture quality. DNle™ by Samsung improves contrast, white level, picture detail and incorporates digital noise reduction to improve lower quality analog video source.

Tantus models

**HLM507W**

Available on all Tantus models (including HLM617W):

- Texas Instruments HD-2 second generation DLP™ 1280x720 panel
- All format conversion to 720P
- Faroudja DCDI™ de-interlacing and 3:2 pull down
- 1 DVI digital video interface

**HLM437W**

- 2 HD Component Video Inputs
- 1 DVD 480i/480P auto sensing Component Video Input
- Computer RGB input
- Optional matching stand

Specifications

	<i>Tantus</i>	<i>Tantus</i>	<i>Tantus</i>		
Model Number	HLM617W	HLM507W	HLM437W	HLM5065W	HLM4365W
Size	61"	50"	43"	50"	43"
Aspect Ratio	16:9 Wide	16:9 Wide	16:9 Wide	16:9 Wide	16:9 Wide
Display Device/Light Engine	Single-panel, HD2 DLP™	Single-panel, HD2 DLP™	Single-panel, HD2 DLP™	Single-panel, HD2 DLP™	Single-panel, HD2 DLP™
Lamp Wattage/Lamp Life (hours)	120/6000	100/8000	100/8000	100/8000	100/8000
Resolution (Horizontal)	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
Picture					
Display Format	720P	720P	720P	720P	720P
Brightness	400 cd/m ²	400 cd/m ²	400 cd/m ²	400 cd/m ²	400 cd/m ²
Contrast	1000:1	1000:1	1000:1	1000:1	1000:1
Digital Comb Filter	3D Y/C	3D Y/C	3D Y/C	3D Y/C	3D Y/C
Protective Shield	Anti-Glare	Anti-Glare	Anti-Glare	Anti-Glare	Anti-Glare
Ultra-Fine Pitch Screen	.155mm	.155mm	.155mm	.155mm	.155mm
Video Processing	DCDi™ by Faroudja	DCDi™ by Faroudja	DCDi™ by Faroudja	Sage Scaler	Sage Scaler
3:2 Pull Down	Yes (Faroudja)	Yes (Faroudja)	Yes (Faroudja)	Film mode	Film mode
Samsung DNe™ Video Enhancer	Yes	No	No	No	No
Sound					
Output Power	30 Watts	30 Watts	30 Watts	30 Watts	30 Watts
Dolby System	Virtual	Virtual	Virtual	Virtual	Virtual
2-Way Dynamic Speakers	Yes	Yes	Yes	Yes	Yes
MTS Stereo with dbx®	Yes	Yes	Yes	Yes	Yes
BBE Audio	Yes	Yes	Yes	Yes	Yes
Features					
2-Tuner PIP	Yes	Yes	Yes	Yes	Yes
Split-Screen Side-By-Side	Yes	Yes	Yes	No	No
HDTV Upgradeable with Receiver/Decoder	Yes	Yes	Yes	Yes	Yes
Terminals					
DVI-HDTV Interface	Yes	Yes	Yes	Yes	Yes
HDTV Component	2	2	2	2	2
Video Input (Y, Pb, Pr) 1080i, 720P, 480P					
DVD Component Video (Y, Pb, Pr) 480i/P	1	1	1	1	1
S-Video	1 Side/2 Rear	1 Side/2 Rear	1 Side/2 Rear	1 Side/2 Rear	1 Side/2 Rear
RCA	1 Side/2 Rear	1 Side/2 Rear	1 Side/2 Rear	1 Side/2 Rear	1 Side/2 Rear
PC Input (D-Sub 15-pin XGA)	1	1	1	1	1
Dimensions					
Size (W x D x H)	56.5" x 21.5" x 41.2"	46.6" x 17.6" x 33.8"	40.5" x 15.7" x 29.7"	48.4" x 17.5" x 33.6"	42.3" x 15.7" x 29.7"
Weight	94.7 lbs	77.6 lbs	66.1 lbs	81.6 lbs.	69.4 lbs.
Cabinet/Color	Ultra-thin bezel/silver gray	Ultra-thin bezel/silver gray	Ultra-thin bezel/silver gray	Sleek bezel/silver gray	Sleek bezel/silver gray
UPC	036725 2 6170 9	036725 2 5070 3	036725 2 4370 5	036725 2 5065 9	036725 2 4365 1