



**DLP™ TV**  
2005 Collection  
56"/61"/67" 1080p models



Samsung TVs with DLP™ technology from Texas Instruments take HDTV to the next level – with Samsung's sixth-generation Cinema Smooth™ 1080p-light-engine-based lineup of high-performance displays. Samsung's innovative DNLe™ technology delivers a crisp, lifelike picture that's closer to film, plus there's never any risk of burn-in or uneven screen aging. Available in 56", 61" and 67" screen sizes, Samsung's 1080p series of HDTVs are engineered to display the full HDTV experience, down to each and every nuance of picture detail that has been captured, broadcasted and received in HDTV. Features include 1,080 horizontal lines of Progressive Scan, a built-in HD tuner, CableCARD™ Digital Cable Ready<sup>1</sup> and purely digital HDMI™<sup>2</sup> connections. Slim and lightweight, they fit where some other big screen TVs won't. Samsung's new Floating Screen design visually separates the bottom speakers from the screen. When combined with a matching stand, the speakers look like they're built into the stand, creating the illusion that the picture is hanging in thin air. With great performance, robust features, and beautiful design, they offer sports and movie enthusiasts a new reason to own a Samsung TV with DLP™ technology.



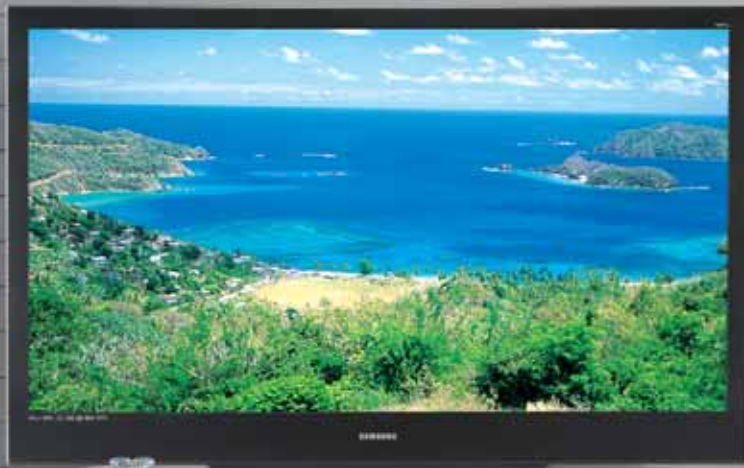
#### Award-winning performance

Samsung TVs with DLP™ technology incorporate Emmy® Award-winning Digital Light Processing™ technology from Texas Instruments and have won numerous awards, including the CNET "Next Big Thing" award (2005), Industrial Design Excellence Award (Silver 2004), CES Innovations Award (2004), Video Grand Prix Award (2004) from *AudioVideo International* magazine, and *Popular Science's* "Best of What's New Award" (2002).



# DLP™ TV by Samsung – 1080p HDTV

- New “Floating Screen” compact, lightweight design – fits where others won’t™
- Digital Cable Ready (DCR) with CableCARD™<sup>1</sup>
- Built-in Analog/Digital Tuner (NTSC/ATSC)
- Samsung Cinema Smooth™  
1080p Gen-6 HD light engine:
  - Full HD 1920 x 1080p digital format converter for all inputs
  - Single-panel design – crystal-clear picture without any possibility of convergence errors
  - Smooth, film-like images
  - Up to 10,000:1 contrast ratio with outstanding colors and deep black levels
  - Whisper-quiet operation
- TV Guide On Screen® Interactive Program Guide
- Samsung’s latest-generation DNle™ video enhancer
- Samsung’s Cinema Smooth Film Mode 3:2 Pull Down
- Anynet™ system control solution
- Purely digital HDTV connections – 2 HDMI™<sup>2</sup> and 2 IEEE 1394 inputs
- No burn-in or uneven screen aging
- 30-watt audio system with SRS TruSurround XT™
- RS232C Control.



HL-R6768W 67"



HL-R6168W 61"



HL-R5668W 56"

<sup>1</sup> Cable TV features like Pay-Per-View and Video-On-Demand require a cable box. CableCARD is provided by your cable service provider.

<sup>2</sup> Currently, HDMI, DVI and Component inputs can only accept up to 1080i signals. All 1080i signals are converted to 1080p. Off-air 1080p signals are displayed in their broadcast format.

## 1080p Cinema Smooth™ Gen-6 Light Engine

Samsung is a worldwide leader in creating light engines that harness Texas Instruments' Digital Light Processing technology. Samsung's Cinema Smooth light engine brings together the right optics, electronic circuitry and replaceable light source to create a brilliant picture that's more lifelike and much closer to film. Samsung's Gen-6 (sixth generation) Cinema Smooth light engines release the maximum power of DLP microdisplays for a remarkably film-like picture. They create a crisp, high-definition image with no visible pixel structure, accurate shading and better low-light detail. The Gen-6 light engine also delivers brighter, higher contrast images than our earlier designs.

### 1080p: The next level of HD performance



These models can display the full 1920 x 1080p High Definition format. All HD video is converted to 1080p for a picture with higher contrast ratios, better brightness and improved perceived resolution, particularly for content that was produced in the native 1920 x 1080 pixel count format.



### Next-generation DLP chips from Texas Instruments



About the size of a postage stamp, the DLP chip is covered with tiny mirrors.

DLP™ TV by Samsung employs a Texas Instruments DLP chip. These new-generation microdisplays have switching speeds twice as fast as previous generations and up to 1,000 times faster than competing microdisplay technologies. When combined with Samsung's new Cinema Smooth light engine, the result is a crisp, bright picture with deep, rich colors that's closer to film.

### Cinema Smooth color wheel: larger, faster, quieter



Cinema Smooth color wheel

Previous

Samsung's 2.6" color wheel spins at 10,800 rpm for smooth fast-motion video, and has seven color segments for improved low-light video performance and noise reduction. It achieves film-like transitions and eliminates the pixel breakup found in slower color wheel designs and slower-switching LCD microdisplays. Air Bearing technology makes it whisper quiet.

## Advanced Picture Quality

# DNie™

## Samsung's DNie – Digital Natural Image engine



Samsung's Digital Natural Image engine makes input signals sharper, clearer and more lifelike. Its advanced image processors and six-times density enhancer help to create true-to-life colors and high contrast, while virtually eliminating digital artifacts.

Without DNie With DNie



### Six-times Density Enhancer

This groundbreaking image resolution enhancer displays extremely high-resolution pictures that are six times as dense as the input's sample rate for sharper images.



### Motion Optimizer

Fast-moving images are optimized to produce more natural-looking motion, thus reducing video noise or blurring.



### Contrast Enhancer

Brightness and contrast levels are enhanced for deeper, richer blacks with greater detail, and more natural whites.



### Detail Enhancer

DNie analyzes video signal elements in order to produce sharper detail, clearer image separation and more natural edge transition.



### Color Optimizer

Colors are reproduced with a more lifelike realism, whites are more accurate, and skin tones are given a more natural hue.



### My Color Control

Samsung's patented "My Color Control" technology allows you to control specific colors without affecting the whole screen. Now, Samsung provides a mix of primary and secondary color-control selections: white, red, pink, yellow, green and blue. Everyone sees color differently – you decide.

## Worry-free connections



HDMI<sup>3</sup> allows for the transmission of both video and audio digital signals through a single connection for higher quality and fewer wires. Fully backward compatible with DVI™ interface-equipped products using an adapter (not included). These 1080p models come with two HDMI inputs.



Digital Cable Ready

Use your DLP TV by Samsung's remote to enjoy the world of digital cable and HDTV thanks to CableCARD™ technology.<sup>4</sup> For the times when digital cable features require a set-top box, such as Video-On-Demand, you can connect that box to a second input.



DTV and DVD Compatible

Connect your digital sources with smart component inputs that accept 480i/480p/720p/1080i signals.



PC Compatible

A Samsung DLP TV can also function as a high-quality WXGA PC monitor.



IEEE 1394

IEEE1394 port for high-speed connection to A/V digital devices such as digital VHS decks, HDD recorders and other A/V components.

<sup>3</sup>Currently, HDMI, DVI and Component inputs can only accept up to 1080i signals. All 1080i signals are converted to 1080p. Off-air 1080p signals are displayed in their broadcast format.

<sup>4</sup>Cable TV features like Pay-Per-View and Video-On-Demand require a cable box. CableCARD is provided by your cable service provider.

## Convenience

### TV Guide On Screen®

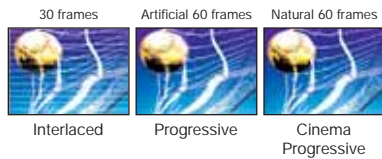
The TV Guide On Screen® Interactive Program Guide is a subscription-free, built-in service that provides listings for cable-ready, cable box, digital cable and over-the-air broadcasts directly on your TV. It lets you find your favorite shows and see which ones are in HD, schedule recordings and reminders and navigate hundreds of channels with ease.



### Cinema Mode

Samsung's Cinema Mode lets you see colors the way the director intended, by matching them more closely to production standards. This creates more accurate colors and natural skin tones when viewing Hollywood movies on your TV – the perfect setting when enjoying movies with the lights off.

### Cinema Smooth™ Film Mode 3:2 Pull Down



Powered by Samsung's Cinema Smooth technology, 3:2 Pull Down corrects for the artificial frames created when films are converted to DVDs. The result is a clearer image without the subtle motion artifacts caused by 24-to-30 frames per second video conversion.

### Picture format size adjustment



Enjoy all of your 4:3 aspect-ratio programming in smooth, wide screen without black bars. Five pre-set aspect ratio modes – Normal, Wide, Panorama, Zoom 1 and Zoom 2 – stretch your image to fill the screen naturally.

### Anynet™ System Control Solution



Samsung Anynet lets you control all of your Anynet-enabled Samsung components through the TV's remote control. This feature facilitates "one-touch" control operations such as turning on the TV, DVD player and selecting the proper inputs.

### SRS TruSurround XT™



High-quality virtual surround sound can be experienced with just the speakers built into your TV. SRS TruSurround XT technology delivers an amazing, simulated 3-D effect with clear dialog and powerful bass.



## Matching Stand\*

### Universal stand

TR46X3 fits 56" model.

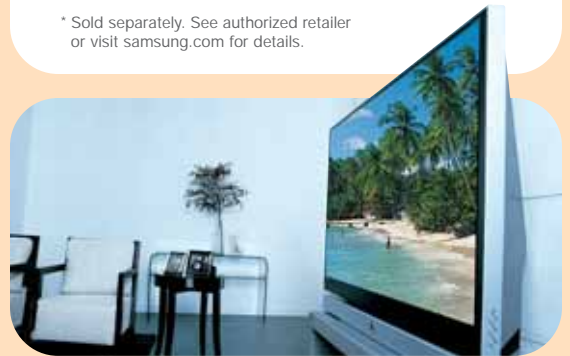


### Universal stand

TR61X2 matches 61" and 67" models.



\* Sold separately. See authorized retailer or visit [samsung.com](http://samsung.com) for details.



## 1080p HD Format

### 1080p vs. 720p

Compared to the 720p format, 1080p presents over twice as many pixels. With over two million pixels, the 1080p format delivers better detail and clarity for both static and fast-moving images.



Sample HD image



1080p



720p

## Samsung TVs with DLP™ Technology

### Advantages

- Award-winning DLP™ Technology by Texas Instruments is the choice of digital theaters the world over. Samsung has over seven years of experience in creating light engines that harness this powerful technology.
- Better picture uniformity over time: No burn-in, uneven screen aging or color-shifting possible.
- Samsung Cinema Smooth™ Light Engine creates a film-like natural picture without visible pixelation.
- Detail advantage: Samsung's sixth-generation 1080p DLP TVs have crisper whites and blacker blacks.

# Specifications

TVs not shown to scale.



	<b>HL-R6768W</b>	<b>HL-R6168W</b>	<b>HL-R5668W</b>
<b>Model number</b>	<b>HL-R6768W</b>	<b>HL-R6168W</b>	<b>HL-R5668W</b>
<b>Screen size</b>	<b>67"</b>	<b>61"</b>	<b>56"</b>
<b>Design</b>	Floating screen	Floating screen	Floating screen
<b>Aspect ratio</b>	16:9 Wide screen	16:9 Wide screen	16:9 Wide screen
<b>High Definition TV Tuner/Decoder</b>	Built-in	Built-in	Built-in
<b>Display Device/Light Engine</b>	← Single-panel DLP	Cinema Smooth Gen-6 1080p HD	→ Single-panel DLP
Type	0.85" 1080 DLP Chip	0.85" 1080 DLP Chip	0.85" 1080 DLP Chip
Lamp (standard/dynamic)	120W/132W	100W/120W	100W/120W
<b>Resolution (V x H)</b>	1920 x 1080	1920 x 1080	1920 x 1080
<b>TV/Video features</b>	Display Format	1080p	1080p
Digital Cable Ready (DCR)	Yes	Yes	Yes
Contrast	Up to 10,000:1	Up to 10,000:1	Up to 10,000:1
Brightness (cd/m <sup>2</sup> )	550	600	700
Digital Comb Filter	3D Y/C	3D Y/C	3D Y/C
3:2 Pull Down	Yes	Yes	Yes
DNIe™	Yes	Yes	Yes
Color wheel - Segments/speed	7 Segments/10,800 rpm	7 Segments/10,800 rpm	7 Segments/10,800 rpm
HD Ultra-Fine Pitch Screen	Yes	Yes	Yes
<b>Audio</b>	Sound Output (RMS)	15W x 2	15W x 2
Digital Sound Out (Optical)	Yes	Yes	Yes
<b>Convenience</b>	Picture-In-Picture	2 Tuner	2 Tuner
Double Screen	Yes	Yes	Yes
TV Guide On Screen*	Yes	Yes	Yes
Discrete Code	Yes	Yes	Yes
Input Labeling (Source Select)	Yes	Yes	Yes
Aspect Ratio Control	←	Wide/Normal/Panorama/Zoom 1/Zoom 2	→
<b>Connections</b>	RF	2 In	2 In
PC In (D-Sub 15-pin)	1 Rear	1 Rear	1 Rear
PC Audio In	1 Rear	1 Rear	1 Rear
AV In (RCA)	2 Rear/1 Side	2 Rear/1 Side	2 Rear/1 Side
S-Video In	2 Rear/1 Side	2 Rear/1 Side	2 Rear/1 Side
Monitor, Audio, Subwoofer Out	1 Rear	1 Rear	1 Rear
Component Video In			
(480i/480p/720p/1080i)	2 Rear	2 Rear	2 Rear
DVI Audio In	1 Rear	1 Rear	1 Rear
HDMI	2 Rear	2 Rear	2 Rear
POD Slot (CableCARD™)	1 Rear	1 Rear	1 Rear
D-Net (IEEE 1394)	2 Rear	2 Rear	2 Rear
RS-232C	1 Rear	1 Rear	1 Rear
Anynet™ (Mini Jack)	1 Rear	1 Rear	1 Rear
G-LINK® (Mini Jack)	1 Rear	1 Rear	1 Rear
Digital Sound Out (Optical)	1 Rear	1 Rear	1 Rear
<b>Net dimensions</b>			
<b>(W x D x H, inches)</b>	TV	62.4 x 19.8 x 45.1	56.9 x 18.4 x 41.6
TV (without Pedestal Base)		62.4 x 17.8 x 44.3	56.9 x 16.5 x 40.7
Stand Dimensions (W x D x H)		62.4 x 17.8 x 17.0	56.9 x 17.8 x 17.0
Shelf Dimensions (W x D)		49.2 x 15.8	49.2 x 15.8
<b>Net weight</b>	TV	109.8 lbs	94.6 lbs
Stand		80.0 lbs	80.0 lbs
<b>Shipping dimensions</b>			
<b>(W x D x H, inches)</b>	TV	68.1 x 24.2 x 49.9	62.2 x 22.2 x 45.9
Stand		18.7 x 8.0 x 67.7	18.7 x 8.0 x 67.7
<b>Shipping weight</b>	TV	143.3 lbs	120.2 lbs
Stand		83.0 lbs	83.0 lbs
<b>Order code</b>	TV	HLR6768WX/XAA	HLR6168WX/XAA
Stand		TR61X2X/XAA	TR61X2X/XAA
<b>UPC</b>	TV	036725 2 6768 8	036725 2 6168 6
Stand		036725 2 6102 0	036725 2 6102 0
			036725 2 4604 1

For more information, log on to [www.samsung.com](http://www.samsung.com)

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