

2005 Collection 50"/56"/61"/71" 1080p models



Samsung TVs with DLP<sup>™</sup> technology from Texas Instruments take HDTV to the next level – with Samsung's sixth-generation Cinema Smooth<sup>™</sup> 1080p-light-engine-based lineup of high-performance displays. Samsung's innovative DNIe<sup>™</sup> 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 50", 56", 61" and 71" 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<sup>™</sup> 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. The 71" model is less than 21" deep and weighs just under 117 pounds. With great performance, robust features, and beautiful design, they offer sports and movie enthusiasts a new reason to own a Samsung TV with DLP<sup>™</sup> technology.





#### Award-winning performance

Samsung TVs with DLP<sup>™</sup> technology incorporate Emmy<sup>®</sup> Award-winning Digital Light Processing<sup>™</sup> 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<sup>™</sup> TV by Samsung – 1080p HDTV

- Compact, lightweight, picture-frame design fits where others won't<sup>™</sup>
- Digital Cable Ready (DCR) with CableCARD<sup>™1</sup>
- Built-in Analog/Digital Tuner (NTSC/ATSC)
- Samsung Cinema Smooth<sup>™</sup>
- 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 DNIe<sup>™</sup> video enhancer
- Samsung's Cinema Smooth Film Mode 3:2 Pull Down
- Anynet<sup>™</sup> 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<sup>™</sup>
- RS232C Control.





HL-R7178W 71"

HL-R5678W 56"



HL-R6178W 61"

HL-R5078W 50"



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<sup>™</sup> 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



postage stamp, the

DLP chip is covered with tiny mirrors.

DLP<sup>™</sup> 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



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 guiet.

virtually eliminating digital artifacts.



# DNIE<sup>™</sup> 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

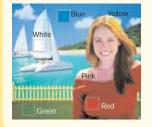












#### are six times as dense as the input's sample rate for sharper images.

**Six-times Density Enhancer** 

This groundbreaking image resolution enhancer

displays extremely high-resolution pictures that

#### **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.

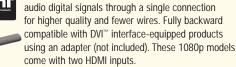
#### **Color Optimizer**

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.

## 



HDMI<sup>3</sup> allows for the transmission of both video and



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



Compatible



A Samsung DLP TV can also

function as a high-quality WXGA

Worry-free connections

PC monitor.

Use your DLP TV by Samsung's remote to enjoy the world of digital cable and HDTV thanks to CableCARD<sup>™</sup> technology.₄ 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.



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.

## Matching Stand\*

#### 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<sup>™</sup> 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<sup>™</sup> 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

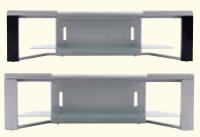


High-quality virtual surround sound can be experienced with just the speakers built into your TV. SRS TruSurround XT technology delivers an amazing, simulated 3-D effect with clear dialog and powerful bass.



#### **Universal stand**

TR61X2SB fits 61" and 71" models.\*\*



#### Universal stand

TR46X3SB matches 50" and 56" models.



To help match your décor, these stands include both gloss-black and silver-gray leg panels.

\* Sold separately. See authorized retailer

or visit samsung.com for details

\*\* For 71", an additional rail kit (TR71RAIL) must be ordered.

### 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

720p

### Samsung TVs with DLP<sup>™</sup> Technology

#### **Advantages**

- Award-winning DLP<sup>™</sup> 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<sup>™</sup> 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.

Model number		HL-R7178W	HL-R6178W	HL-R5678W	HL-R5078W
Screen size		71"	61"	56"	50"
Design		Custom Tabletop design	Custom Tabletop design	Custom Tabletop design	Custom Tabletop desi
Aspect ratio		16:9 Wide screen	16:9 Wide screen	16:9 Wide screen	16:9 Wide screen
High Definition TV	/ Tuner/Decoder	Built-in	Built-in	Built-in	Built-in
Display Device/Lig			Cinema Smooth Gen-6 1080		Bailt III
Display Device/Li		Single-panel DLP	Single-panel DLP	Single-panel DLP	Single-panel DLP
	Tupo	0.85" 1080 DLP Chip	0.85" 1080 DLP Chip	0.85" 1080 DLP Chip	0.85" 1080 DLP Chip
	Type				
	Lamp (standard/dynamic)	120W/132W	100W/120W	100W/120W	100W/120W
Resolution (V x H)		1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
TV/Video features		1080p	1080p	1080p	1080p
	Digital Cable Ready (DCR)	Yes	Yes	Yes	Yes
	Contrast	Up to 10,000:1	Up to 10,000:1	Up to 10,000:1	Up to 10,000:1
	Brightness (cd/m²)	500	600	700	900
	Digital Comb Filter	3D Y/C	3D Y/C	3D Y/C	3D Y/C
	3:2 Pull Down	Yes	Yes	Yes	Yes
	DNIe™	Yes	Yes	Yes	Yes
	Color wheel – Segments/speed	7 Segments/10,800 rpm	7 Segments/10,800 rpm	7 Segments/10,800 rpm	7 Segments/10,800 r
	HD Ultra-Fine Pitch Screen	Yes	Yes	Yes	Yes
Audio	Sound Output (RMS)	15W x 2	15W x 2	15W x 2	15W x 2
Addio		Yes	Yes	Yes	Yes
Comucian	Digital Sound Out (Optical)				
Convenience	Picture-In-Picture	2 Tuner	2 Tuner	2 Tuner	2 Tuner
	Double Screen	Yes	Yes	Yes	Yes
	TV Guide On Screen®	Yes	Yes	Yes	Yes
	Discrete Code	Yes	Yes	Yes	Yes
	Input Labeling (Source Select)	Yes	Yes	Yes	Yes
	Aspect Ratio Control	•	Wide/Normal/Panorama/Zoor	m 1/Zoom 2	
Connections	RF	2 In	2 In	2 In	2 In
	PC In (D-Sub 15-pin)	1 Rear	1 Rear	1 Rear	1 Rear
	PC Audio In	1 Rear	1 Rear	1 Rear	1 Rear
	AV In (RCA)	2 Rear/1 Side	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	2 Rear/1 Side
	Monitor, Audio, Subwoofer Out	1 Rear	1 Rear	1 Rear	1 Rear
		i Redi	i iteai	i Keai	i itedi
	Component Video In		2 Data	2.8	2.0
	(480i/480p/720p/1080i)	2 Rear	2 Rear	2 Rear	2 Rear
	DVI Audio In	1 Rear	1 Rear	1 Rear	1 Rear
	HDMI	2 Rear	2 Rear	2 Rear	2 Rear
	POD Slot (CableCARD™)	1 Rear	1 Rear	1 Rear	1 Rear
	D-Net (IEEE 1394)	2 Rear	2 Rear	2 Rear	2 Rear
	RS-232C	1 Rear	1 Rear	1 Rear	1 Rear
	Anynet™ (Mini Jack)	1 Rear	1 Rear	1 Rear	1 Rear
	G-LINK <sup>®</sup> (Mini Jack)	1 Rear	1 Rear	1 Rear	1 Rear
	Digital Sound Out (Optical)	1 Rear	1 Rear	1 Rear	1 Rear
Net dimensions	3				
(W x D x H,	TV	65.8 x 20.4 x 46.8	56.9 x 18.4 x 41.6	52.4 x 15.3 x 37.9	46.5 x 14.0 x 34.3
inches)	TV (without Pedestal Base)	65.8 x 18.7 x 45.9	56.9 x 16.5 x 40.7	-	-
	Stand Dimensions (W x D x H)	65.8 x 17.8 x 17.0	56.9 x 17.8 x 17.0	52.5 x 17.8 x 19.0	- 46.5 x 17.8 x 19.0
	Shelf Dimensions (W x D)	49.2 x 15.8	49.2 x 15.8	34.8 x 15.8	34.8 x 15.8
Net weight	TV	116.6 lbs	99.2 lbs	84.9 lbs	75.6 lbs
	Stand	87.0 lbs	87.0 lbs	78.0 lbs	78.0 lbs
Shipping dimension					
(W x D x H,	TV	71.7 x 25.0 x 51.7	62.2 x 22.2 x 45.9	57.3 x 20.3 x 43.1	51.2 x 18.7 x 39.6
inches)	Stand	18.7 x 8.0 x 67.7	18.7 x 8.0 x 67.7	19.6 x 7.7 x 41.8	19.6 x 7.7 x 41.8
Shipping weight	TV	145.5 lbs	123.5 lbs	108.0 lbs	94.8 lbs
	Stand	90.0 lbs	90.0 lbs	81.0 lbs	81.0 lbs
Order code	TV	HLR7178WX/XAA	HLR6178WX/XAA	HLR5678WX/XAA	HLR5078WX/XAA
	Stand	TR61X2SBX/XAA*	TR61X2SBX/XAA	TR46X3SBX/XAA	TR46X3SBX/XAA
UPC	TV	036725 2 7178 4	036725 2 6178 5	036725 2 5678 1	036725 2 5078 9
UPC .					
	Stand	036725 2 6103 7	036725 2 6103 7	036725 2 4605 8	036725 2 4605 8

\* For the 71" model (HL-R7178W), an additional rail kit (TR71RAIL) must be ordered.

#### For more information, log on to www.samsung.com



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