

# DLP™ TV HLN5065W

## 50" Wide Screen HDTV Monitor Television with DLP™ Technology



Shown with optional stand (TR5050)



2002 Grand  
Award Winner



### TV/VIDEO

- DLP™ (Digital Light Processing) TV
  - New Compact Slim and Light Design with
  - Net Dimensions: 46.6" (W) x 33.8" (H) x 17.6" (D)
  - Net Weight: 77.6 lbs.
- Samsung DNIe™ (Digital Natural Image engine)
  - Detail Enhancer
  - Contrast Enhancer
  - White Balance and Color Optimizer
  - Noise Reduction with 3D Motion Optimizer
- Crystal Clear 1280 x 720p Resolution
- HDTV Performance with add-on HDTV tuner
- All Format Conversion to 720p
- Film Mode 3:2 Pull Down Enhancement
- 3D Y/C Digital Comb Filter
- 2-Tuner PIP with Side-by-Side Split Screen
- 8000 Hour 100-Watt User Replaceable Lamp
- HD Fine Pitch Screen (0.155 mm)
- No Screen Aging or Burn-in Effects
- 150° Horizontal Viewing Angle

### AUDIO

- 30-watt stereo audio system
- Virtual Dolby® Sound
- BBE® Sound Enhancer

### CONNECTIONS

- DVI - HDTV Digital Video Interface (HDMI Compatible)
- 2-Rear HD Component Video Inputs
- Dedicated DVD Component Video Input (480i/480p)

Samsung introduces a new generation digital TV that finally addresses high-definition performance, compact design and affordability when compared to other flat panel designs. The new HLN5065W displays 50 inches of breathtaking wide-screen viewing area that is elegantly framed in an ultra-light, thin-bezel cabinet. Weighing about 78 pounds and a mere 17.6 inches deep, the HLN5065W fits almost anywhere. The secret to this engineering marvel - a compact digital projector powered by a single, postage stamp sized Digital Micromirror Device (DMD) that generates high definition video images. These video images are created by proprietary digital light processing (DLP™) techniques, and then magnified by an advanced array of optics. Its fully digital video design processes combined with Samsung's new DNle™ video enhancer optimizes all analog NTSC and wideband sources be it a VCR, DVD player, camcorder or TV programming from digital satellite receivers and HDTV tuners. The new DVI interface is compatible with the new generation cable, satellite and off-air high-definition receivers for a pure digital picture. Samsung's HLN5065W will also accommodate a computer too with no burn-in or screen-aging issues to worry about. Hang it, mount it, rest it on a stand or wall-unit, and simply move it anywhere, its size and weight offers more placement possibilities over any other TV design. Finally, Samsung lets you put TV in its place.



# HLN5065W

## 50" Wide Screen HDTV Monitor Television with DLP™ Technology

### TV / VIDEO FEATURES

**Wide-screen Aspect Ratio** is the ideal screen format for viewing wide-screen video from DVD players and the growing availability of broadcast programming off digital HDTV tuners, cable boxes and satellite receivers.

**DLP™ Projection System** DLP™ (Digital Light Processing) technology by Texas Instruments 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. While all other technologies are analog and compromise some image quality in translation, DLP™ projection unleashes the full potential of high quality video content. DLP™ projection is both a tried and true and cutting edge technology. Visit [www.dlp.com](http://www.dlp.com)

**Samsung DNle™ Video Enhancer** or Digital Natural Image engine, enhances all analog NTSC and wideband video inputs for an overall improvement in picture quality. DNle™ by Samsung improves contrast, white level, picture detail and incorporates a digital noise reduction to improve lower quality video.

**Automatic Digital Format Conversion System** is compatible with 1080i and 720P HDTV formats, 480P EDTV and 480i SDTV formats. Samsung digital format conversion system will accept any DTV, Analog TV, or XGA computer RGB input. All video signals are converted to a 16x9 wide-screen pixel count (1280 x 720 resolution) progressive display for flicker-free images.

**2nd Generation (HD-2) DMD Chip** is Texas Instrument's latest micro-display panel. Combined with Samsung's advanced light processing optics, the result is an overall stunning picture quality that is clear, bright and with outstanding contrast. Samsung's HDTV monitor televisions based on DLP™ technology will deliver a stunning picture quality that rivals any other display technology available today. On reliability, the Texas Instrument DMD panel is immune to the factors that can cause the performance of other display technologies - such as cathode ray tubes (CRT), plasma display panels (PDP), liquid crystal display systems (LCD, LCoS, HTPS), and film to deteriorate with ongoing use. The DLP™ panel is unsusceptible to the damaging effects of heat, humidity, vibration, and aging. Projection systems using DLP™ technology enable

# PLP™ TV



you to see the creator's original vision at full impact again and again, no matter how many times a video or graphic has been projected.

**Single DMD Panel Design** displays a bright clear high-definition picture without annoying focus and any possible convergence artifacts seen in display designs that incorporate multiple micro-display panels or multiple CRT's.

**Film Mode 3:2 Pull Down** correction circuitry senses motion found in unconverted 480i DVD video based on 24 fps film productions. Especially important when converting to a progressive video image, the result is an elimination of visible motion artifacts. This feature is by-passed on 480P, 720P and 1080i inputs.

**3D Y/C Digital Comb Filter** constantly analyzes the three dimensions of picture height, picture width, and picture changes-over-time, to dramatically reduce edge image artifacts while improving transition detail.

**2-Tuner PIP with side-by-side split screen** enables convenient simultaneous viewing of two TV programs on the TV screen.

**HD Ultra-Fine Pitch Screen** (.155mm) further improves picture clarity especially when viewing higher definition video sources like DVD and HDTV. Text and fine details will appear sharper.

**Advanced Translucent On-Screen Display** developed by Samsung enables viewing all on-screen display information and on-screen menus and simultaneously viewing the video in the background.

## AUDIO

**30-watt stereo audio system** and two way speaker system offers full range of high quality audio.

**BBE® High Definition Sound Processing Circuit** adjusts the phase relationships of the low, mid and high frequencies and the augmentation of the higher and lower frequencies. The result is improved brilliance and clarity of live recorded audio programming, soundtracks and music.

## CONVENIENCE FEATURES

**Audio Mode Preset** button on the set's remote enables 5 different modes for sports, movies, music, speech and custom settings.

**Picture Format Size Adjustment** can be programmed by video input for satisfying viewing choice. The ASPECT button on the remote control toggles the set's 5 options - Zoom 1, Zoom 2, Wide, Panorama and Normal Format. The TV will retain the last format setting for each individual input.

**Picture Mode Preset** button on the set's remote enables 4 different video adjustments - standard, movie, custom and dynamic settings. Note that the dynamic setting is intended for bright Dealer showrooms and should be adjusted for optimum picture quality.

**Smart Input System** identifies on-screen which input connections are active. Inputs not connected are by-passed.

**Universal remote control** permits control of the TV, DVD, VCR and a Cable box.

**Previous Channel** returns to the previously viewed channel at the push of a button.

**Trilingual On-Screen Displays** in English, Spanish, and French.

**V-Chip<sup>1</sup>** enables parental control for channel and program blocking of TV programs that incorporate the rating code signal.

## CONNECTIONS

**DVI-HDTV Interface with HDCP copy protection** enables an all-digital rendering of video without the losses associated with an analog interface. DVI supports up to 24-bit digital RGB data for each pixel for the highest image quality. High-bandwidth Digital Content Protection (HDCP) provides a protected interface which opens the availability of high value content such as premium high-definition video by means of new generation broadcast satellite receivers and new digital cable boxes. This DVI-HDTV interface is compatible with the next generation name, HDMI, by means of a cable adaptor.

**Dual HDTV Component Video Inputs** accommodate HD satellite receivers, HDTV tuners and HD cable boxes that feature component video outputs (Y, Pb, Pr). These inputs accept 480P, 720P and 1080i.

**Dedicated DVD Component Video Input** auto detects 480i or 480 progressive scan DVD players. The aspect ratio selections for this input supports zoom 1 and 2.

# DLP™ TV

## HLN5065W

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#### SPECIFICATIONS

##### VIDEO

**Display Device:** Single 0.8 inch Digital Micro Device

**Pixel Count:** 1280 horizontal x 720 Vertical (total 921,600)

**Refresh Rate:** 60 Hz (Progressive)

**Channel Coverage:** VHF 2-13, UHF 14-69, CATV 1-125 (up to 181 pre-selected channels)

##### AUDIO

**Output Power:** 2 Channels x 15 Watts

**Speaker System:** Left/Right, 2 Way

**MTS Stereo with dbx® Noise Reduction**

#### CONNECTIONS

##### VIDEO TERMINALS

**Composite Video In:** 3 (1 Side, 2 Rear)

**S-Video In:** 3 (1 Side, 2 Rear)

**DVD Component Video Input:** 1 Set (Y, Pb, Pr) 480i, 480P

**HDTV/DTV Component Video Input:** 2 (Y, Pb, Pr) 1080i, 720P, 480P

**RF In:** 2 Rear

**RF Out:** 1 Rear

**PC Input:** 1 Rear (D-Sub 15 pin) XGA

**DVI Input:** 1 Rear

##### AUDIO TERMINALS

**Analog L/R Inputs:** 3 (1 Side, 2 Rear)

**Analog L/R Outputs:** 1 Set (Rear)

#### SUPPLIED ACCESSORIES

Instruction Book

Remote Control with 2 AAA Batteries

##### QUALITY

**Warranty:** 1 year parts and labor warranty, with in-home service backed by Samsung toll-free support.

#### NET DIMENSIONS AND WEIGHT (WxHxD)

**Monitor:** 46.6" x 33.8" x 17.6"

**Monitor Weight:** 77.6 lbs.

#### SHIPPING INFORMATION (WXHXD)

**Monitor:** 50.9" x 39.2" x 22.1"

**Monitor Weight:** 97.0 lbs.

#### ORDER INFORMATION

**UPC:** 036725250666

**Order Code:** HLN5065WX/XAA

#### OPTIONAL STAND: TR5050

**Net Dimensions Stand:** (WxHxD)  
46.6" x 19.5" x 21.9"

Dual Component Shelf: 37" x 7.3" x 17"(x2)

**Net Weight:** 91.9 lbs.

**Shipping Dimensions:** (WxHxD)  
51.4" x 26.0" x 24.6"

**Shipping Weight:** 105.8 lbs.

**UPC:** 036725250727

**Order Code:** TR5050X/XAA

<sup>1</sup>Feature dependent upon broadcasting of information by local off-air TV and cable channels. DLP, Digital Light Processing and the DLP Medallion are trademarks of Texas Instruments. As an Energy Star® partner, Samsung has determined that this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a registered trademark of the U.S. Environmental Protection Agency. Dolby is a registered trademark of Dolby Laboratories. Design and specifications are subject to change without notice. Non-metric weights and measurements are approximate. dbx is a registered trademark of Corillon Electronics. All brand, product, service names and logos are trademarks of their respective manufacturers and companies.  
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Rear Jack Panel



Side Jack Panel



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