

DLP PROJECTION TV SPECIFICATIONS

Screen Size	56" diagonal
Screen Aspect	16:9
Displayable Colors	16.77 million colors
Contrast Ratio	2500:1
Color System	NTSC, decoded HDTV
Data Signals	VGA, SVGA, XGA
TV Scan Lines	All inputs converted to 720p

INPUT TERMINALS

Composite Video	2 (RCA)
S-Video	2 (4-pin mini DIN)
Component Video	2 (RCA x 3)
VGA RGB Signal	1 (15-pin mini d-Sub)
DVI Digital Input	1 (24-pin DVI plug , HDCP-enabled)
HDMI Digital Interface	1 (19-pin HDMI interface)
Stereo Audio In	6 (RCA L/R)

OUTPUT TERMINALS

Composite Video	1 (RCA)
Stereo Audio Out	1 (RCA L/R)

DLP TV ACCESSORIES

Speakers	Built In
Mounting Options	Pedestal Stand Included
Included Accessories	Includes full-function remote and 15Wx2 stereo speaker system.

DIMENSIONS AND GENERAL SPECS

Power Supply	100-120V @ 50-60Hz
Power Consumption	[not published]
Dimensions	58.7" x 58.3" x 21.9" (w/stand)
Weight	134.50 lbs.
FCC Class	FCC Class B, Home Use

Key Features of the Samsung HL-P5685W

- 56" Samsung DLP TV - 4th Generation DLP Projection System
- Improved 2500:1 Contrast Ratio
- DNIe (Digital Natural Image Engine) delivers video performance
- Sleek, Futuristic Pedestal Light Weight design
- HDTV monitor performance with add-on HDTV tuner
- 1080i and 720p HDTV, 480p and 480i compatibility
- 1280 x 720p digital conversion of all video inputs
- Digital Video Interface (DVI) and HDMI digital inputs
- 3:2 Pull Down for 24 fps film based video
- Progressive Scan DVD component video input
- 3D Y/C Digital Comb Filter
- 30-watt stereo audio system
- BBE Sound Processing with SRS TruSurround
- 2 sets HDTV component video inputs
- Dual-tuner picture-in-picture with side-by-side mode
- Universal remote control
- Translucent on-screen display (OSD) system

DLP TV TECHNOLOGY

Samsung Cinema Smooth Gen 4 HD projection technology is Samsung's 4th generation Digital Light Processing engine. Samsung's high performance Gen 4 HD projector is using Texas Instruments' latest generation .8 inch microdisplay. The faster switching speeds are double the previous DLP TV micro-display design and approximately 1,000 times faster than competing micro-display technology. Combine Samsung's low color aberration spec of optics, advanced video processing and sequential color filter refinements, the result is a stunningly clear picture with outstanding color, an extended contrast ratio of 2500:1 and a smooth handling of action video.

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

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

Automatic Digital Format Conversion System is compatible with 1080i and 720P HDTV formats, 480P 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 widescreen pixel count (1280 x 720 resolution) progressive display. 3rd Generation DMD Chip offers the latest performance enhancement. 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 Samsung DLP TV 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 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, color aberrations and any possible convergence artifacts seen in display designs that incorporate multiple micro-display panels or multiple CRT's.

3D Y/C Digital Comb Filter dramatically reduces edge image artifacts while improving transition detail.

New Brighter HD Ultra-Fine Pitch Screen A .155mm dot pitch projection screen further improves picture clarity especially when viewing higher definition video sources like DVD and HDTV. Text and fine details will appear sharper.

AUDIO SYSTEM

30-Watt Stereo Audio System with SRS TruSurround offers full range of high quality audio. SRS TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers and headphones. It is fully compatible with all multichannel formats up to 6.1 channels.

INPUT/OUTPUT TERMINALS

DVI-HDTV Interface with HDCP Copy Protection enables an all-digital rendering of video without the losses associated with an analog interface. High-Bandwidth Digital Content Protection (HDCP) opens the world of digital video content via the new generation of set-top box HD satellite, cable and off-air receivers and also including DVD players.

HDMI (High-Definition Multimedia Interface) addresses both pure digital audio and video performance and simplifies connections from the new generation set-top boxes and DVD players by reducing cable connections to one cable and plug.

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 480i, 480P, 720P and 1080i.

OTHER FEATURES

2-Tuner PIP With Side-By-Side Split Screen enables convenient simultaneous viewing of two TV programs on the TV screen.

Reliable Technology 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 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, color aberrations and any possible convergence artifacts seen in display designs that incorporate multiple microdisplay panels or multiple CRT's.

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 setting for each individual input.

Picture Mode Preset button on the set's remote enables 3 different video adjustments - standard, cinema, and dynamic settings. Note that the dynamic setting is intended for bright Dealer showrooms. The TV will retain the last setting for each individual input.

New Cinema Picture Mode combined with warm 2 setting achieves a correct color temperature that closely matches production standards. Ideal for watching movies in dark rooms or low light. Universal Remote Control permits control of the TV, DVD, VCR and a Tuner/Receiver.

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

V-Chip Circuitry enables parental control for channel and program blocking of TV programs that incorporate the rating code signal.