



LCD TV

## 55LH90

55" Class Full HD 1080p LED Backlit 240Hz LCD TV  
(54.6" diagonal)



Unlike other LED HDTVs that use "edge" lighting, LG's LH90 uses a full array of LED backlights which employ local dimming techniques for more precise picture control, resulting in deeper blacks, a wider color gamut and smoother motion, for a more natural picture.

### TV

- LED Backlight with Local Dimming
- TruMotion 240Hz
- Intelligent Sensor Mode
- Full HD 1080p HD Resolution
- 2,000,000:1 Dynamic Contrast Ratio
- 2.4ms Response Time (GTG)
- 500 cd/m<sup>2</sup> Brightness
- Wide Color Gamut
- Super IPS Panel
- Wide Viewing Angle
- XD Engine<sup>®</sup>
- 24p Real Cinema
- ISFccc<sup>®</sup> Ready
- Picture Wizard
- AV Mode II (Cinema, Sports, Game)
- NTSC/ATSC Tuners with Clear QAM

### AUDIO

- Output Power: 10W x 2
- Invisible Speaker System
- Clear Voice II
- SRS TruSurround XT<sup>™</sup>
- Smart Volume Controller
- Dolby<sup>®</sup> Digital 5.1 Decoder

### SMART ENERGY SAVINGS

- Backlight Control
- Video Mute
- ENERGY STAR<sup>®</sup> 3.0 Compliant

### CONNECTIVITY

- 4 HDMI<sup>™</sup> V1.3 with Deep Color (3 rear/1 side)
- SIMPLINK<sup>™</sup> Connectivity
- 2 HD Component Video Inputs (rear)
- 2 Composite Input (1 rear/1 side)
- 1 Digital Audio Out (Optical) (rear)
- USB 2.0 (JPEG, MP3, DivX) (side)
- PC Connectivity (D-sub 15pin)
- RF Antenna Input



LGusa.com

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55" Class Full HD 1080p LED Backlit 240Hz LCD TV  
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### LCD SPECIFICATION

Screen Size (Class)	55" Class (54.6" diagonal)
LED Backlight with Local Dimming	•
Native Display Resolution	1920 x 1080p
Brightness (cd/m <sup>2</sup> )	500
Dynamic Contrast Ratio	2,000,000:1
Viewing Angle	178° / 178°
Response Time	2.4ms
TruMotion 240Hz	•
True Viewing Angle	•

### BROADCASTING SYSTEM

Analog	•
ATSC/NTSC/Clear QAM	•

### VIDEO

XD Engine	•
Aspect Ratio	16:9
Aspect Ratio Correction	6 Modes
Just Scan (1:1 Pixel Matching)	•

- HDMI	1080p/1080i/720p
- Component	1080p/1080i/720p
- RF	1080i/720p

Enhanced Noise Reduction (Video Noise Filter)	• (3D & MPEG)
Color Temperature Control	3 Modes

24p Real Cinema	• (5:5)
3:2 Pulldown	•
Picture Reset	•

AV Mode II (Picture & Sound)	3 Modes
Picture Mode	8 Modes
ISFccc Ready	•

Intelligent Sensor Mode	•
xvYCC	•
DTV Signal Strength Indicator	•

### AUDIO

Mono/Stereo/Dual (MTS/SAP)	•
Audio Output Power (Watts - THD 10%)	10W + 10W
Invisible Speaker System Details	2 Way 4 Speaker

Dolby Digital 5.1 Decoder	•
Surround System Type	SRS TruSurround XT
Bass/Treble/Balance Controls	•

Clear Voice II	•
Auto Volume Leveler II	•
Sound Mode	5 Modes

### SPECIAL FEATURES

Picture Wizard	•
Backlight Control	•
Smart Energy Saving	•
Mechanical Power Off	•

1080p Source Input	•
- HDMI	60p/30p/24p
- Component	60p/30p/24p
- RGB	60p

A/V Input Navigation	•
Input Labeling	•
Quick View (Previous Channel)	•

Quick Setup Guide	•
e-Manual	•
Parental Control w/V-Chip	•

Key Lock	•
Closed Caption	•
LG SIMPLINK (HDMI CEC)	•

### CONVENIENCE FEATURES

Language	English/Spanish/French/Korean
Auto Tuning/Programming	•
Channel Add/Delete	•

Channel Labeling	•
Favorite Channel Programming	•
Auto/Manual Clock	•

On/Off Timer	•
Sleep Timer	•
Auto Off/Auto Sleep (When no video is present)	•

L/R Audio/Component Video In	1
HDMI/HDCP Input	1 (V1.3 with Deep Color)

### SIDE AUDIO/VIDEO INPUTS/OUTPUTS

USB 2.0 (JPEG/MP3/DivX)	1
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### REAR AUDIO/VIDEO INPUTS/OUTPUTS

RF In (Antenna/Cable)	1
L/R Audio/Composite Video In	1
HD Component Video In (Y,Pb,Pr) + L/R Audio	2
Digital Audio Out (Optical)	1
HDMI/HDCP Input	3 (V1.3 with Deep Color)
RGB In (D-Sub 15pin) - PC	1
PC Audio Input	1
RS-232c In (Control/Service)	1

### CABINET/ACCESSORIES

Cabinet Color	Glossy Black/Blue
Swivel Stand (degrees)	20° / 20°
VESA® Compliant (WxH)	400mm x 400mm
Remote Control Type	Unified

### POWER

Voltage, Hz	100V - 240V, 50/60 Hz
On Mode (Average)	TBD
Stand-by Mode	>1W
ENERGY STAR 3.0 Compliant	•

### DIMENSIONS & WEIGHT

TV without stand (WxHxD)	54.1" x 35.1" x 4.2"
TV with stand (WxHxD)	54.1" x 38.0" x 17.9"
Shipping Dimensions (WxHxD)	TBD
TV without stand weight	78.3 lbs
TV with stand weight	86.4 lbs
Shipping weight	TBD

### WARRANTY/UPC

Limited Warranty	1 Year Parts & Labor
UPC	719192174672

Design, features and specifications subject to change without notice.

Non-metric weights and measurements are approximate.

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