



LCD TV

## 42LH90

42" Full HD 1080p LED Backlit 240Hz LCD TV  
(42.0" 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®
- 24p Real Cinema
- ISFccc® 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™
- Smart Volume Controller
- Dolby® Digital 5.1 Decoder

### SMART ENERGY SAVINGS

- Backlight Control
- Video Mute
- ENERGY STAR® 3.0 Compliant

### CONNECTIVITY

- 4 HDMI™ V1.3 with Deep Color (3 rear/1 side)
- SIMPLINK™ 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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(42.0" diagonal)



### LCD SPECIFICATION

|                                  |                            |
|----------------------------------|----------------------------|
| Screen Size (Class)              | 42" Class (42.0" 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 |
|-------------------------|---|

### 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)  | 200mm x 200mm     |
| 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)    | 42.0" x 28.2" x 3.7"  |
| TV with stand (WxHxD)       | 42.0" x 30.6" x 14.2" |
| Shipping Dimensions (WxHxD) | 52.8" x 32.7" x 11.3" |
| TV without stand weight     | 43.0lbs               |
| TV with stand weight        | 51.1 lbs              |
| Shipping weight             | TBD                   |

### WARRANTY/UPC

|                  |                      |
|------------------|----------------------|
| Limited Warranty | 1 Year Parts & Labor |
| UPC              | 719192174696         |

Design, features and specifications subject to change without notice.

Non-metric weights and measurements are approximate.

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