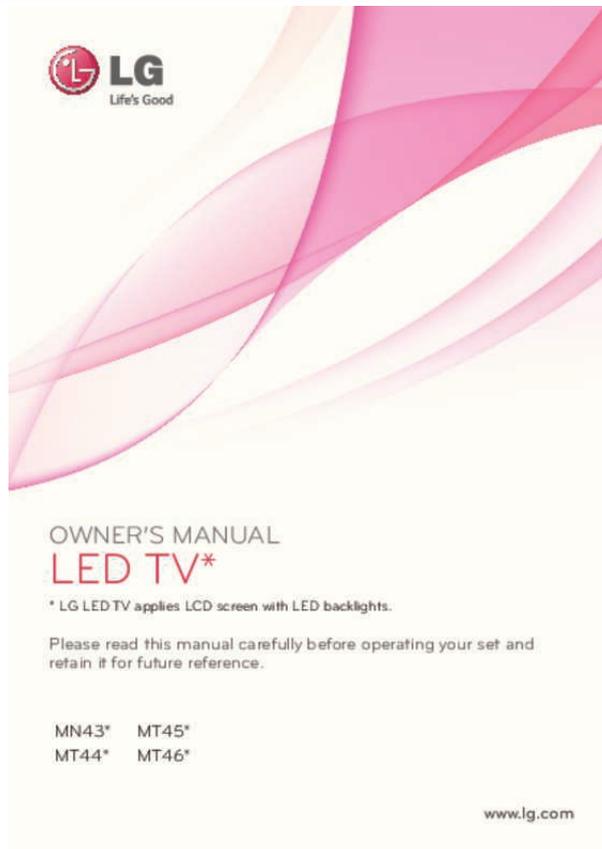




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You can read the recommendations in the user guide, the technical guide or the installation guide for LG 22MT45D-PZ. You'll find the answers to all your questions on the LG 22MT45D-PZ in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual LG 22MT45D-PZ
User guide LG 22MT45D-PZ
Operating instructions LG 22MT45D-PZ
Instructions for use LG 22MT45D-PZ
Instruction manual LG 22MT45D-PZ



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Manual abstract:

lg.com. Manufactured under license from Dolby Laboratories. @@@@ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that has passed rigorous testing to verify that it plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos. ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. @@Go to vod. divx.

com for more information on how to complete your registration. @@@@LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product. 4 ASSEMBLING AND PREPARING ENGLISH NOTE Image shown may differ from your TV.

yy Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual. yy The available menus and options may differ from the input source or product model that you are using. yy New features may be added to this TV in the future. yy yy The TV can be placed in standby mode in order to reduce the power consumption. And the TV should be turned off if it will not be watched for some time, as this will reduce energy consumption. yy The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost. ASSEMBLING AND PREPARING Unpacking Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item. CAUTION Do yy not use any pirated items to ensure the safety and product life span. Any damages or injuries by using pirated items are not covered by the warranty. yy Some models have a thin film attached on to the screen and this must not be removed. yy NOTE The items supplied with your product may vary depending on the model. yy Product specifications or contents of this manual may be changed without prior notice due to upgrade of yy product functions. For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 yy mm width.

Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick does not fit into your TV's USB port. B A A B *A *B 10 mm 18 mm ASSEMBLING AND PREPARING 5 ENGLISH Remote control, Batteries (AAA) (See p.24) CD (Owner's Manual), Cards Stand Base (Only 22MT44*) (See p.10, 13) Stand Base (Only 20/22/24/28MT45*) (See p.10, 13) Stand Base (Only 19MN43*) (See p.12, 14) Stand Base (Only 24/27MT46*) (See p.12, 14) Stand Base (Only 29MT45*) (See p.11, 13) Stand Body (Only 29MT45*) (See p.11, 13) Stand Body (Only 19MN43*, 24/27MT46*) (See p.12, 14) Stand Screws 2 EA, M4 x L16 (Only 29MT45*) (See p.11, 13) Cable Holder 1 EA (Only 19MN43*, 24/27MT46*) (See p.18) or Power Cord AC-DC Adapter (Depending on model) (See p.15) (See p.15) AC-DC Adapter (Depending on model) (See p.

15) 6 ASSEMBLING AND PREPARING Parts and buttons (Only 22MT44*, 20/22/24/28MT45*) Screen ENGLISH Speakers Joystick button (* This button is located below the TV screen.) Remote control sensor Power Indicator yy Red : When the power is turned off yy Off : When the power is turned on yy Amber :

When the power is in power saving mode NOTE You can set the power indicator light to on or off by selecting OPTION in the main menus. yy Using the Joystick button You can simply operate the TV functions, pressing or moving the joystick button up, down, left or right. Basic Functions Power On When the TV is turned off, place your finger on the joystick button and press it once and release it. When the TV is turned on, place your finger on the joystick button and press it once for a few seconds and release it.

(However, if the Menu button is on the screen, pressing and holding the joystick button will let you exit the Menu.) If you place your finger over the joystick button and move it left or right, you can adjust the volume level you want. If you place your finger over the joystick button and move it up or down, you can scrolls through the saved programmes what you want. Power Off Volume Control Programmes Control ASSEMBLING AND PREPARING 7 ENGLISH NOTE

yy When your finger over the joystick button and push it to the up, down, left or right, be careful not to press the joystick button. If you press the joystick button first, you can not adjust the volume level and saved programmes. Adjusting the Menu When the TV is turned on, press the joystick button one time.) moving the joystick button up, down, left or right. You can adjust the Menu items (, , , TV Off Settings Close Input List Turns the power off. Accesses the main menu. Clears on-screen displays and returns to TV viewing.

Changes the input source. 8 ASSEMBLING AND PREPARING (Only 19MN43*) ENGLISH Screen Speakers Remote control sensor Power Indicator yy yy yy Red : When the power is turned off Off : When the power is turned on Amber : When the power is in power saving mode Touch buttons (Only 29MT45*)

Screen Speakers Remote control sensor Power Indicator yy yy yy Red : When the power is turned off Off : When the power is turned on Amber : When the power is in power saving mode Touch buttons ASSEMBLING AND PREPARING 9 (Only 24/27MT46*) ENGLISH Screen Speakers Remote control sensor

Power Indicator yy yy yy Red : When the power is turned off Off : When the power is turned on Amber : When the power is in power saving mode Touch buttons NOTE All yy of the buttons are touch sensitive and can be operated through simple touch with your finger. You can set the power indicator light to on or off by selecting OPTION in the main menus. yy Touch button Scrolls through the saved programmes. Adjusts the volume level. OK SETTINGS INPUT

Selects the highlighted menu option or confirms an input. Accesses the main menus, or saves your input and exits the menus. Changes the input source. Turns the power on or off. Description 10 ASSEMBLING AND PREPARING Lifting and moving the TV Please note the following advice to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

Setting up the TV Image shown may differ from your TV. ENGLISH Attaching the Stand 22MT44*, 20/22/24/28MT45* CAUTION Avoid touching the screen at all times, as this yy may result in damage to the screen. It yy is recommended to move the TV in the box or packing material that the TV originally came in.

Before moving or lifting the TV, disconnect the yy power cord and all cables. When holding the TV, the screen should face yy away from you to prevent the screen from scratches.

1 Stand Base yyHold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



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2 When transporting the TV, do not expose the TV to jolts or excessive vibration. When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right. Do not apply excessive pressure to cause flexing/bending of frame chassis as it may damage screen. When handling the TV, be careful not to damage the protruding joystick button. (Depending on model) CAUTION When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches. ASSEMBLING AND PREPARING 11 29MT45* 1 3 ENGLISH 2 EA M4 x L16 2 NOTE If you don't fasten the screw tightly, TV will fall down and get damaged. Tighten the screws firmly to prevent the TV from tilting forward. (Not Provided) Connect the TV to a wall antenna socket with an RF cable (75 Ω). NOTE Use a signal splitter to use more than 2 TVs. If the image quality is poor, install a signal amplifier properly to improve the image quality. If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction. An antenna cable and converter are not supplied. Supported DTV Audio: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC.

Satellite dish Connection (Only satellite models) 13/18 V 700mA Max LNB IN Satellite (Not Provided) Connect the TV to a satellite dish to a satellite socket with a satellite RF cable (75 Ω). 20 MAKING CONNECTIONS Euro Scart Connection ENGLISH (Not Provided) AUDIO/VIDEO Transmits the video and audio signals from an external device to the TV set. Connect the external device and the TV set with the euro scart cable as shown. Output Type AV1 (TV Out1) Digital TV Current input mode Digital TV Analogue TV, AV Component HDMI RGB 1 TV Out : Outputs Analogue TV or Digital TV signals. Analogue TV NOTE Any Euro scart cable used must be signal shielded. MAKING CONNECTIONS 21 Other Connections Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable as shown. Some separate cable is not provided. DVD / Blu-Ray / PC / HD Cable Box / HD STB ENGLISH HDMI OUT (Only satellite models) HDMI IN LAN COMPONENT IN ANTENNA / CABLE IN AV2 IN RGB IN (PC) 13/18 V 700mA Max LNB IN Satellite or other picture settings, the range of detailed items for adjustment may differ. To adjust picture with Picture Wizard SETTINGS PICTURE Picture Wizard III [Depending on model] Calibrates and adjusts for optimum picture quality using the remote control and the Picture Wizard without expensive pattern devices or help from a specialist.

To select Picture Mode SETTINGS PICTURE Picture Mode Select the picture mode optimized for the viewing environment or the programme. Vivid : Heightens contrast, brightness and sharpness to display vivid images. Standard : Displays images in standard levels of contrast, brightness and sharpness. Eco/APS: [Depending on model] The Energy Saver feature changes settings on the TV to reduce power consumption. Cinema/Game: Displays the optimum picture for movie, game. Sports : Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue. Expert 1, 2 : Menu for adjusting picture quality that allows experts and amateurs to enjoy the best TV viewing. This is the adjustment menu provided for ISF-certified picture tuning professionals. (ISF logo can only be used on ISF-certified TVs.) ISFccc: Imaging Science Foundation Certified Calibration Control Settings 27 To set additional picture options SETTINGS PICTURE Picture Option Picture Mode To use Energy Saving feature SETTINGS PICTURE Energy Saving Reduces power consumption by adjusting screen brightness. Auto : [Depending on model] The TV sensor detects the ambient lighting and automatically adjusts the screen brightness. Off : Turns off the Energy Saving mode. Minimum / Medium / Maximum : Applies the preset Energy Saving mode. Screen Off : Screen is turned off and only sound is played. Press any button except Power button on the remote control to turn the screen back on. ENGLISH [Depending on model] Adjusts detailed setting for images. Noise Reduction : Eliminates noise in the picture. MPEG Noise Reduction : Eliminates noise generated while creating digital picture signals. Black Level : Adjusts the brightness and contrast of the screen to suit the black level of the input picture by using the blackness (black level) of the screen. Real Cinema : Optimizes the screen for movie viewing.

Smooth : De-judder/De-blur working on higher range in auto mode. Clear : De-judder/De-blur working on middle range in auto mode. User : De-judder / De-blur can be set manually. De-judder : This function adjusts juddering of the screen. Power off all devices : When you power off the TV, all connected devices are turned off. Sync Power on: When the equipment with SIMPLINK function connected HDMI terminal starts to play, the TV will automatically turn on. Speaker : [Depending on model] Select speaker either on the home theatre unit or the TV. To synchronize audio and video SETTINGS AUDIO AV Sync. Adjust [Depending on model] Synchronizes video and audio directly when they do not match. If you set AV Sync.

Adjust to ON, you can adjust the sound output (TV speakers or SPDIF) to the screen image. To use SIMPLINK [Depending on model] SIMPLINK is a feature that enables you to control and manage various multimedia devices conveniently via the SIMPLINK menu. 1 Connect the TV's HDMI IN terminal and the SIMPLINK device's HDMI output terminal using an HDMI cable. [Depending on model] For home theatre units with a SIMPLINK function, connect HDMI terminals as above, and use an optical cable to connect Optical Digital Audio Out from the TV to Optical Digital Audio In of the SIMPLINK device. 2 Select INPUT(OPTION) SIMPLINK.

SIMPLINK menu window appears. 3 In SIMPLINK Setting window, set SIMPLINK function to ON. 4 In SIMPLINK menu window, selects the device you want to control. This function is only compatible with devices with the SIMPLINK logo. To use the SIMPLINK function, you need to use a high-speed HDMI® cable (with CEC (Consumer Electronics Control) feature added).

High-speed HDMI® cables have the No. 13 pin connected for information exchange between devices. If you switch to another input, the SIMPLINK device will stop. To set password SETTINGS LOCK Set Password Sets or changes the TV password. The initial password is set to '0000'. When France is selected for Country, password is not '0000' but '1234'. When France is selected for Country, password cannot be set to '0000'. To return Factory Reset SETTINGS OPTION Factory Reset All stored information is deleted and TV settings are reset. The TV turns itself off and back on, and all settings are reset.



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@@@Remove the USB storage device and then re-connect it.

Supported Video Formats yy Maximum: 1920 x 1080 @ 30p (only Motion JPEG 640 x 480 @ 30p) yy .asf, .wmv [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XviD, H.264/AVC, VC1(WMV3, WVCI), MP43 [Audio] WMA Standard, WMA9(Pro), MP3, AAC, AC3, MP3, 3D WMV Single Stream. yy divx, .avi [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XviD, H.264/AVC [Audio] HE-AAC, LPCM, ADPCM, MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, MPEG-1 Layer III (MP3), *DTS yy .ts, .trp, .tp, .mts, .m2ts [Video] H.264/AVC, MPEG-2, AVS, VC1 [Audio] MPEG-1 Layer I, MPEG-1 Layer II, MPEG1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, HE-AAC, *DTS yy .vob [Video] MPEG-1, MPEG-2 [Audio] Dolby Digital, MPEG-1 Layer I, MPEG-1 Layer II, DVD-LPCM yy mp4, .m4v, .mov [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XVID, H.264/AVC [Audio] AAC, MPEG-1 Layer III (MP3), *DTS yy .mkv [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XVID, H.264/AVC [Audio] HE-AAC, Dolby Digital, MPEG-1 Layer III (MP3), *DTS, LPCM yy motion JPEG [Video] MJPEG [Audio] LPCM, ADPCM yy .mpg, .mpeg, .mpe [Video] MPEG-1, MPEG-2 [Audio] MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, LPCM yy dat [Video] MPEG-1, MPEG-2 [Audio] MP2 yy flv [Video] Sorenson H.263, H.264/AVC [Audio] MP3, AAC, HE-AAC yy *rm, *rmvb [Video] RV30, RV40 [Audio] Dolby Digital, AAC, HE-AAC, RA6(Cook) yy 3gp, 3gp2 [Video] H.264/AVC, MPEG-4 Part2 [Audio] AAC, AMR(NB/WB) yy *DTS / *rm / *rmvb : Depending on model ENGLISH Using a USB storage device - warning yy If the USB storage device has a built-in auto recognition program or uses its own driver, it may not work. yy Some USB storage devices may not work or may work incorrectly.

yy Use only USB storage devices formatted with the Windows FAT32 or NTFS File System. yy For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA. @@@@For more information, refer to the user manual of the USB HDD. @@@@ssa (SubStation Alpha), *.txt (TMplayer), *.psb (PowerDivX) yy Internal supported subtitle formats: XSUB (Supports internal subtitles generated from DivX6) 30 Settings / To see web manual Supported Audio Formats yy File type : mp3 [Bit rate] 32 Kbps - 320 Kbps [Sample freq.] 16 kHz - 48 kHz [Support] MPEG1, MPEG2, Layer2, Layer3 yy File Type : AAC [Bit rate] Free Format [Sample freq.] 8 kHz ~ 48 kHz [Support] ADIF, ADTS yy File Type : M4A [Bit rate] Free Format [Sample freq.] 8 kHz ~ 48 kHz [Support] MPEG-4 yy File Type : WMA [Bit rate] 128 Kbps ~ 320 Kbps [Sample freq.] 8 kHz ~ 48 kHz [Support] WMA7, WMA8, WMA9 Standard yy File Type : WMA [Bit rate] ~ 768 Kbps [Channel / Sample freq.] M0 : up to 2 Channel @ 48 kHz (Except LBR mode), M1 : up to 5.1 Channel @ 48 kHz, M2 : up to 5.1 Channel @ 96 kHz [Support] WMA 10 Pro yy File Type : OGG [Bit rate] Free Format [Sample freq.] 8kHz ~ 48 kHz [Support] OGG Vorbis TO SEE WEB MANUAL To obtain detailed User Guide information, please visit www.lg.

com. ENGLISH Supported Photo Formats yy Category : 2D (jpeg, jpg, jpe) [Available file type] SOF0: Baseline, SOF1: Extend Sequential, SOF2: Progressive [Photo size] Minimum: 64 x 64, Maximum: Normal Type: 15360 (W) x 8640 (H), Progressive Type: 1920 (W) x 1440 (H) yy Category : BMP [Photo size] Minimum : 64 x 64, Maximum : 9600 x 6400 yy Category : PNG [Available file type] Interlace, Non-Interlace [Photo size] Minimum : 64 x 64, Maximum : Interlace : 1200 x 800, Non-Interlace : 9600 x 6400 yy BMP and PNG format files may be slower to display than JPEG. MAINTENANCE 31 MAINTENANCE Cleaning Your TV Clean your TV regularly to keep the best performance and to extend the product lifespan. ENGLISH CAUTION Make sure to turn the power off and disconnect the power cord and all other cables first. yy When the TV is left unattended and unused for a long time, disconnect the power cord from the wall outlet yy to prevent possible damage from lightning or power surges.

Screen, frame, cabinet and stand To yy remove dust, wipe the surface with a dry and soft cloth. To yy remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a clean and dry cloth. CAUTION Avoid touching the screen at all times, as this may result in damage to the screen. yy Do yy not push, rub, or hit the screen surface with your fingernail or a sharp object, as this may result in scratches and image distortions. Do yy not use any chemicals as this may damage the product. Do yy not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction. Power cord Remove the accumulated dust or dirt on the power cord regularly. Preventing "Image burn" or "Burn-in" on your TV screen If yy a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen.

This is "image burn" or "burn-in" and not covered by the warranty. If yy the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen. Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD) to prevent yy image burn. 32 TROUBLESHOOTING TROUBLESHOOTING Problem Cannot control the TV with the remote control. No image display and no sound is produced. The TV turns off suddenly. Solution Check the remote control sensor on the product and try again. yy Check if there is any obstacle between the product and the remote control. yy to Check if the batteries are still working and properly installed (, yy Check if the product is turned on. yy Check if the power cord is connected to a wall outlet.

yy Check if there is a problem in the wall outlet by connecting other products. yy Check the power control settings. The power supply may be interrupted. yy Check if the Automatic Standby (Depending on model) / Sleep Timer / Off Time yy feature is activated in the TIME settings. If yy there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

Turn the TV off/on using the remote control. yy Reconnect the HDMI/RGB cable. yy Restart the PC with the TV on. yy ENGLISH). When connecting to the PC (HDMI/DVI/RGB), 'No signal' or 'Invalid Format' is displayed.

SPECIFICATIONS 33 SPECIFICATIONS Product specifications may be changed without prior notice due to upgrade of product functions. MODELS Dimensions (W x H x D) Weight With stand (mm) Without stand (mm) With stand (kg) Without stand (kg) 22MT45D 22MT45V 507.6 x 364.3 x 166.4 507.6 x 314.7 x 56.0 3.0 2.8 32W 19 V 1.

6 A 24MT45D 24MT45V 556.0 x 392.7 x 166.4 556.0 x 343.2 x 56.0 3.6 3.4 32W ENGLISH Power consumption Power requirement AC/DC Adapter Manufacturer: Lien Chang Model: LCAP16A-E, LCAP25A Manufacturer: Honor Model: ADS-40FSG-19 19032GPG, ADS-40SG-19-2 19032G 28MT45D 28MT45V 641.



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5 x 445.

2 x 175.0 641.5 x 396.1 x 57.5 4.

8 4.6 40W 19 V 1.6 A 19 V Manufacturer : Lien Chang Model : LCAP16B-E, LCAP25B Manufacturer : LG Innotek Model : PSAB-L205B, PSAB-L204B
24MT46D 556.5 x 445.0 x 188.

4 556.5 x 346.1 x 66.5 3.9 3.6 33W 19 V 1.6 A 19 V 29MT45D 29MT45V 668.6 x 472.4 x 223.5 668.

6 x 410.5 x 65.8 5.9 5.26 48W 2.4 A Manufacturer : Lien Chang Model : LCAP35 Manufacturer : APD Model : DA-48F19 27MT46D 641.2 x 489.1 x 213.2
641.2 x 391.

3 x 77.8 5.3 4.9 35W 2.0 A MODELS Dimensions (W x H x D) Weight With stand (mm) Without stand (mm) With stand (kg) Without stand (kg) Power
consumption Power requirement AC/DC Adapter MODELS Dimensions (W x H x D) Weight With stand (mm) Without stand (mm) With stand (kg) Without
stand (kg) Power consumption Power requirement AC/DC Adapter Manufacturer : Lien Chang Model : LCAP16B-E, LCAP25B Manufacturer : LG Innotek
Model : PSAB-L205B, PSAB-L204B 34 SPECIFICATIONS MODELS Dimensions (W x H x D) Weight With stand (mm) Without stand (mm) With stand (kg)

Without stand (kg) 20MT45D 466.

5 x 329.4 x 140.6 466.5 x 286.1 x 52.

7 2.5 2.3 32W 19 V 1.6 A 19MN43D 441.7 x 350.9 x 167.8 441.7 x 277.7 x 62.9 2.

5 2.3 ENGLISH Power consumption Power requirement AC/DC Adapter Manufacturer: Lien Chang Model: LCAP16A-E, LCAP25A Manufacturer: Honor
Model: ADS-40FSG-19 19032GPG, ADS-40SG-19-2 19032G 22MT44D 507.6 x 335.9 x 135.8 507.6 x 314.7 x 52.7 2.8 2.6 32W 19 V 1.

6 A Manufacturer: Lien Chang Model: LCAP16A-E, LCAP25A Manufacturer: Honor Model: ADS-40FSG-19 19032GPG, ADS-40SG-19-2 19032G MODELS
Dimensions (W x H x D) Weight With stand (mm) Without stand (mm) With stand (kg) Without stand (kg) Power consumption Power requirement AC/DC
Adapter CI Module Size (W x H x D) Operating Temperature Environment condition Operating Humidity Storage Temperature Storage Humidity Satellite
Digital TV Television system Programme coverage DVB-T/T2 DVB-C DVB-S/S2 VHF, UHF C-Band, Ku-Band 6,000 75 Ω 100.0 mm x 55.0 mm x 5.0 mm 10
°C to 35 °C 20 % to 80 % -10 °C to 60 °C 5 % to 90 % Digital TV DVB-T DVB-C VHF, UHF 1,500 Analogue TV PAL/SECAM B/G/I/D/K, SECAM L/L'

VHF: E2 to E12, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47 Maximum number of storable programmes External antenna impedance
SPECIFICATIONS 35 RGB (PC) / HDMI (PC) supported mode (Only 20MT45*) Resolution 720 x 400 640 x 480 800 x 600 1024 x 768 1152 x 864 1600 x
900 Horizontal Frequency (kHz) 31.468 31.

469 37.500 37.879 46.875 48.363 60.

023 67.500 60.000 Vertical Frequency (Hz) 70.080 59.940 75.000 60.317 75.000 60.004 75.029 75.

000 60.000 (Only 19MN43*, 24/28/29MT45*) ENGLISH Resolution 720 x 400 640 x 480 800 x 600 1024 x 768 1280 x 800 1366 x 768 Horizontal Frequency
(kHz) 31.468 31.469 37.500 37.879 46.875 48.363 60.023 49.702 47.

717 Vertical Frequency (Hz) 70.080 59.940 75.000 60.317 75.

000 60.004 75.029 59.810 59.790 (Only 22MT44*, 22MT45*, 24/27MT46*) Resolution 720 x 400 640 x 480 800 x 600 1024 x 768 1024 x 768 (Only
HDMI(PC)) 1152 x 864 1280 x 720 1280 x 800 1280 x 1024 1400 x 1050 1440 x 900 1600 x 900 1680 x 1050 1920 x 1080 Horizontal Frequency (kHz) 31.
468 31.469 37.500 37.879 46.875 48.363 60.023 56.476 67.500 45.000 49.

702 63.981 79.976 65.317 55.935 60.000 64.674 65.290 67.500 Vertical Frequency (Hz) 70.080 59.

940 75.000 60.317 75.000 60.004 75.

029 70.069 75.000 60.000 59.810 60.

020 75.025 59.978 59.887 60.000 59.883 59.954 60.000 NOTE The yy optimal display resolution - 20MT45*: 1600 X 900 @ 60 Hz. - 22MT44*, 22MT45*,
24/27MT46*: 1920 X 1080 @ 60 Hz. - 24/28/29MT45*, 19MN43*: 1366 X 768 @ 60 Hz.

The yy optimal timing in each mode is vertical frequency 60 Hz. 36 SPECIFICATIONS HDMI (DTV) supported mode Resolution 720 x 480 720 x 576 1280
x 720 Horizontal Frequency(kHz) 31.469 31.500 31.250 37.500 44.960 45.000 33.720 33.750 28.

125 27.000 33.750 56.250 67.430 67.

500 Vertical Frequency(Hz) 59.940 60.000 50.000 50.000 59.

940 60.000 59.940 60.000 50.000 24.000 30.000 50.000 59.940 60.000 ENGLISH 1920 x 1080 Component supported mode Resolution 720 x 480 Horizontal
Frequency(kHz) 15.

730 15.750 31.470 31.500 15.625 31.250 44.960 45.000 37.500 33.720 33.

750 28.125 56.250 67.432 67.500 Vertical Frequency(Hz) 59.

940 60.000 59.940 60.000 50.000 59.

940 60.000 50.000 59.940 60.000 50.000 50.000 59.940 60.000 720 x 576 1280 x 720 1920 x 1080 Component port connecting information Component
ports on the TV Y Y Video output ports on DVD player Y Y Y PB PB B-Y Cb Pb PR PR R-Y Cr Pr Make sure to read the Safety Precautions before using the
product. Keep the Owner's Manual (CD) in an accessible place for future reference.

The model and serial number of the TV is located on the back and one side of the TV. Record it below should you ever need service. MODEL SERIAL .



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