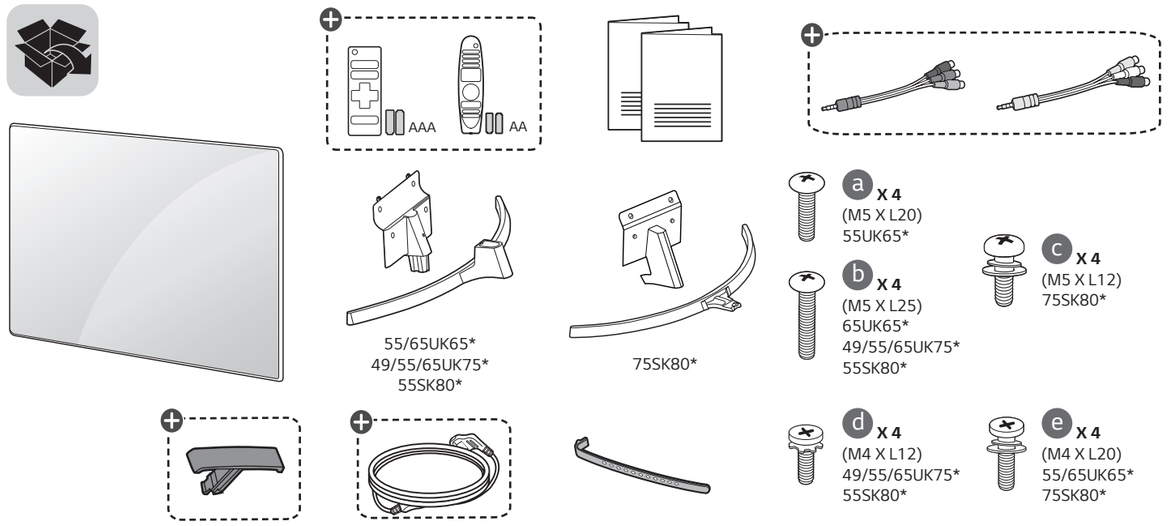
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MFL70320122
(1802-REV00)

UK65*
UK75*
SK80*



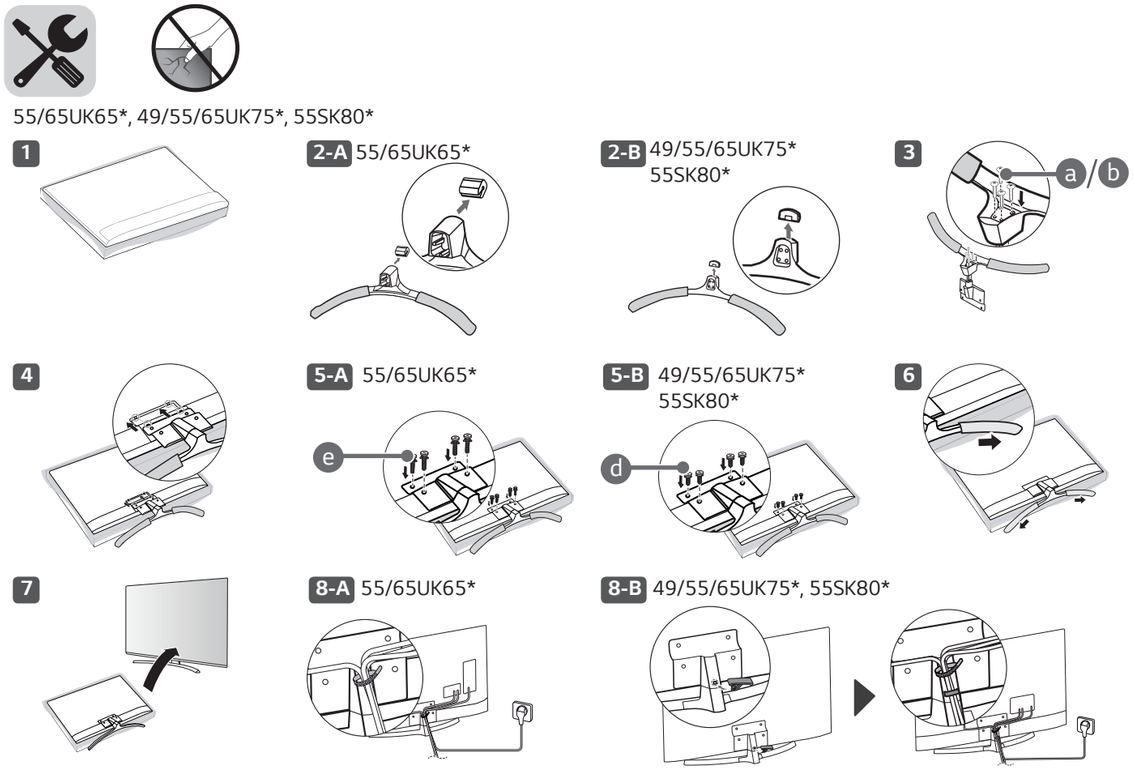
English

- Read **Safety and Reference**.
- For the power supply and power consumption, refer to the label attached to the product.

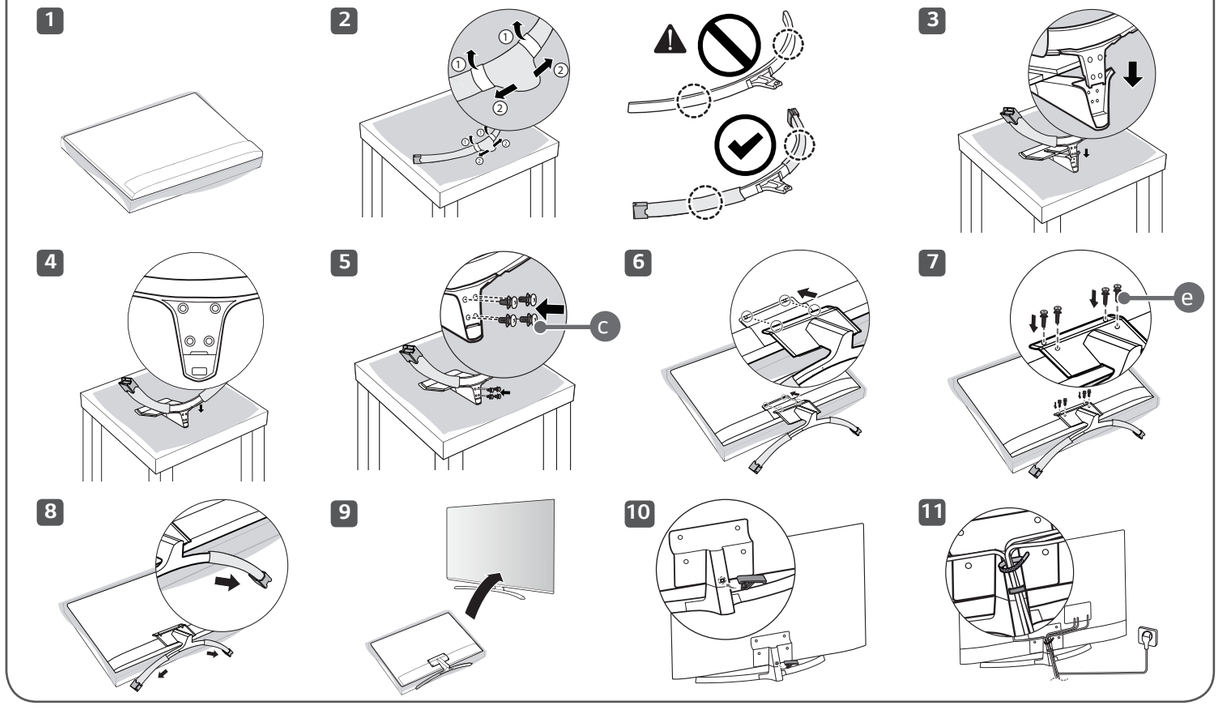
粵語

- 閱讀安全及參考資料。
- 關於電源供應及耗電量，參閱於產品上的標籤。

55/65UK65*, 49/55/65UK75*, 55SK80*

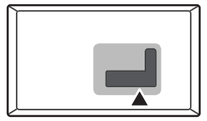


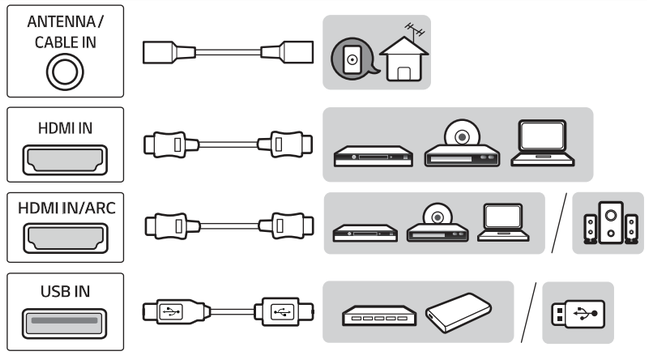
75SK80*

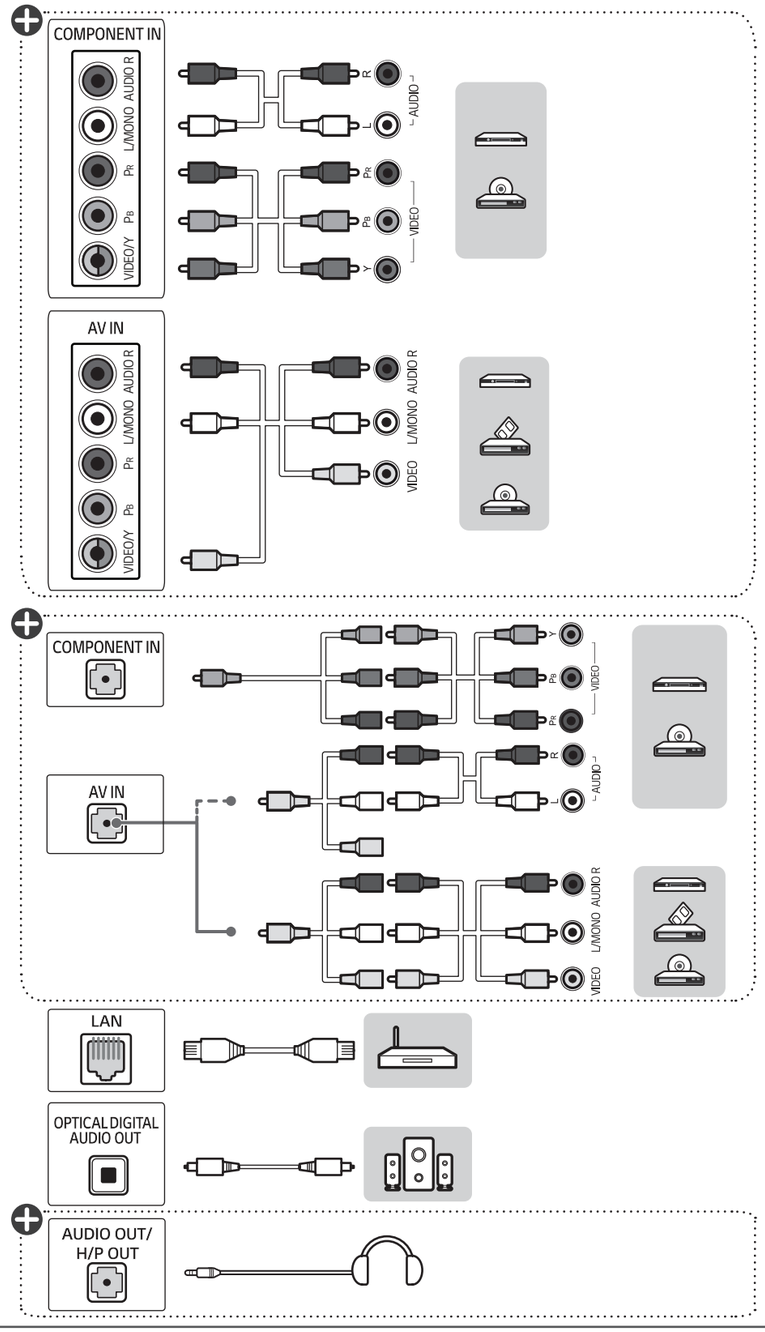


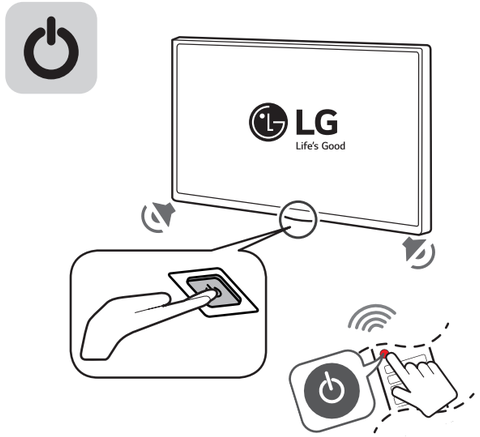
: Depending on model
視乎型號而定

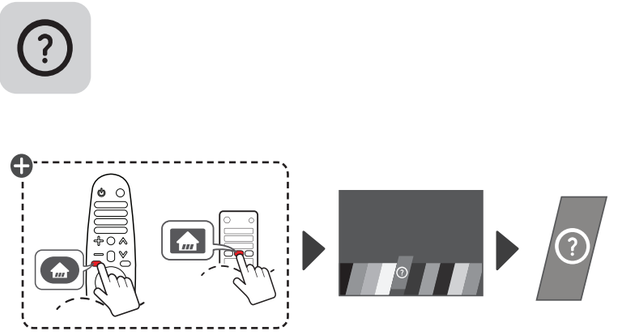


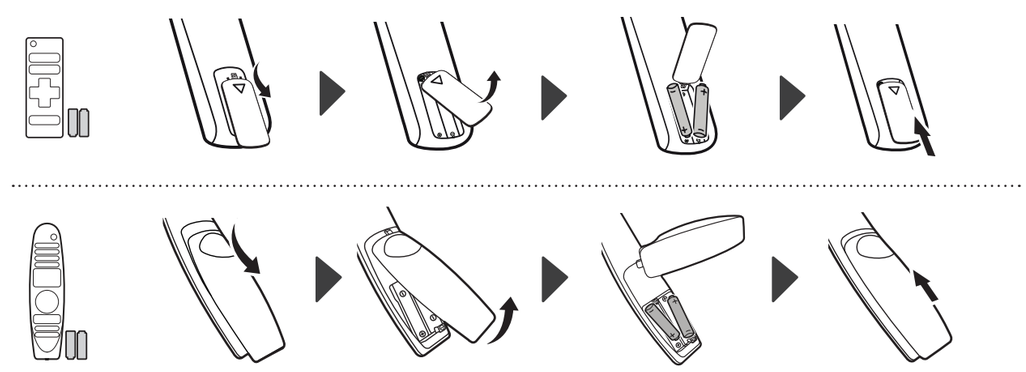














	寬 (毫米) / W (mm)	含底座 (毫米) / With stand (mm)		不含底座 (毫米) / Without stand (mm)		含底座 (公斤) / With stand (kg)	不含底座 (公斤) / Without stand (kg)
		高 / H	深 / D	高 / H	深 / D		
55UK6550PCD	1237	775	259.2	718	63.8	17.3	16.0
65UK6550PCD	1456	903	310.9	841	64.8	27.5	26.0
49UK7500PCA	1102	717	248.4	644	63.3	14.5	13.0
55UK7500PCA 55SK8000PCA	1237	794	248.4	721	63.3	17.6	16.1
65UK7500PCA	1456	916	318.5	844	63.9	26.2	24.5
75SK8000PCA	1681	1044	350.3	973	65.2	41.4	38.8
電源要求 / Power requirement					AC 100-240 V~ 50 / 60 Hz		

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用戶手冊

安全及參考

LED 電視*
* LG LED 電視配備具有 LED 背光的 LCD 螢幕。

請於操作產品前仔細閱讀本手冊並將其保留以供未來參考之用。

MFL70212402
(1802-REV00)

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警告! 安全指示



注意：爲減低觸電風險，請勿移除蓋板（或背板）。當中並無用戶可自行維修的組件。請向合資格維修人員諮詢相關維修安排。

此標誌用作提醒使用者，產品的機殼內有非絕緣保護的「危險電壓」，相關電壓的強度足以構成觸電風險。

此標誌用作提醒使用者，電器附帶的相關產品說明，已列出重要操作及保養（維修）指示。

警告：爲減低火災或觸電風險，請勿將本產品置於雨中或潮濕環境中。

- 爲防止火災蔓延，請隨時保持本產品遠離蠟燭或其他有明火的物品。
- 請勿將電視及遙控器放置於下列環境：
  - 勿讓產品直接暴曬在陽光下。
  - 高濕度範圍，例如浴室
  - 發熱源附近例如煮食爐及其他發熱裝置。
  - 輕易暴露於蒸氣或油煙如廚房工作範圍或放濕器附近。
  - 暴露於雨水或當風位置。
  - 勿讓液體滴入或潑灑到裝置，並且勿在裝置上方（例如裝置上方的架子上）放置裝有液體的物體（例如花瓶、杯子等）。
  - 靠近如汽油或蠟燭等易燃物，或將電視置於空調直吹處。
  - 請勿安裝在灰塵過多的位置。

  否則，可能造成火災、觸電、燃燒/爆炸、故障或產品變形。
- 通風
  - 請將電視安裝在通風良好的位置。請勿安裝在狹窄的空間（例如書架）。
  - 請勿將產品安裝於地毯或軟墊上。
  - 裝置插入時勿讓衣物或其他材料擋住或蓋住產品。
- 小心勿觸碰通風口。長時間觀看電視時，通風口可能會產生高溫。
- 保護電源線以防止受到物理性如扭曲、折彎、緊夾、受到門的擠壓或踩踏或機件受損。請加倍留意插頭、牆上插座以及裝置的電線出口。
- 連接電源線時，請勿搬動電視。
- 請勿使用受損或鬆脫的電源線。
- 拔除電源線時，請確實握住插頭。不要拉扯電源線來拔除電視電源。
- 請勿在同一交流電源插座上連接過多裝置，因爲這可能導致火災或觸電。
- 切斷裝置主電源
  - 電源插頭與裝置中斷連接。如有緊急情況，電源插頭必須保持隨時可用。
- 切勿讓孩童攀爬於電視上。否則將導致電視翻倒並引致嚴重受傷。
- 室外天線接地（可能依國家/地區而異）：
  - 如果安裝了室外天線，請遵循下列注意事項。

    室外天線系統不應設置於接近高壓電電線或其他路燈照明或電源電路之處，或可能接觸此類輸電線或電路之處，否則可能導致人員傷亡。

    請確定天線系統已接地，以針對電源突波或所產生的靜電提供保護。

    美國的國家電器規程（NEC）之第 810 條。提供天線桅杆與支撐結構的適當接地、類比放電裝置導入電線的接地、接地導體大小、類比放電裝置位置、接地電極連接以及接地電極要求的相關資訊。

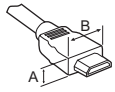
    天線接地是遵循美國國家電器規程 ANSI/NFPA 70

- 接地 （未接地的裝置除外）
  - 附三插頭的電視必須連接到三孔接地的 AC 插座。確保連接接地線，以防觸電。
- 切勿在雷擊或閃電時碰觸本裝置或天線。將可能導致觸電。
- 確保電源線安全地連接到電視和牆上插座，若未安全連接，插頭和插座可能損壞，並且在極端情況下可能引發火災。
- 請勿將金屬或易燃物體插入產品。若有異物掉入產品內，請拔除電源線，並聯絡服務中心。
- 插頭插上時，請勿觸碰電源線末端。將可能導致觸電。
- 如發生任何下列情況，即時切斷產品電源並聯絡當地服務中心。
  - 產品曾受損毀
  - 若有水或其他物質滲入產品 （像是 AC 轉接器、電源線或電視）。
  - 若聞到電視發出煙霧或其他臭味。
  - 出現雷擊或閃電時，或者長時間不使用產品時。

  除非拔除電源線，否則即使用遙控器或按鈕關閉電視，AC電源仍會保持接通狀態。
- 請勿在電視附近使用高電壓的電子設備 （例如：滅蚊機）。這可能引起產品故障。
- 未經 LG Electronics 書面授權，請勿嘗試以任何方式修改本產品。可導致火災或觸電。如需服務或維修，請洽詢您當地的客戶服務中心。未經授權的修改可能會讓使用者失去操作本產品的權力。
- 請僅使用經授權的附件 / LG Electronics 所認可的配件。否則，可能導致火災、觸電或產品無法正常運作。
- 切勿拆開 AC 適配器或電源線。可能導致火災或觸電。
- 請小心處理適配器避免掉落或被撞擊。遭到撞擊可能會對產品造成損害。
- 爲降低發生火災或觸電的風險，請勿用濕手碰觸電視。若電源插頭潮濕或佈滿灰塵，請將插頭完全擦乾或擦去灰塵。
- 電池
  - 將附件 （電池等） 存放在安全的位置並遠離兒童。
  - 請避免短路、拆卸或讓電池過熱。請勿用火焚化電池。電池不應暴露於高溫的地方。
- 移動
  - 搬動時，確定已關閉產品電源、拔出插頭，並取下所有纜線。可能需要兩個或更多人搬運較大型的電視。請勿按壓設備屏幕或在電視屏幕上施力壓力。否則，可能導致產品損壞、造成危險或傷害。
- 請將包裝防潮材料或乙烯基包裝物料放置在兒童無法觸及的地方。
- 勿撞擊產品或讓任何物體掉入產品內部，也不要讓任何物體掉落到螢幕上。
- 請勿以手或指甲、鉛筆或鋼筆等尖銳物件用力按壓屏幕，或使其刮花。可能會使螢幕損壞。
- 清潔
  - 清潔時，請拔除電源線並以乾軟布輕拭，以避免刮傷。請勿直接在電視上噴水或其他液體。請勿使用會對產品及其屏幕造成損壞的化學品，例如玻璃清潔劑、空氣清新劑、殺蟲劑、潤滑劑、汽車或工業用蠟劑、磨光劑、稀釋劑、苯、酒精等。否則，可能導致觸電或產品損壞。

準備使用

- 如電視從廠商運出後首次開啓，電視初始化可能需時數分鐘。
- 插圖可能與實際情況有差異。
- 您電視的 OSD（螢幕顯示）可能與此手冊中顯示的內容略有不同。
- 可用的功能表及選項可能與您使用的輸入來源或產品型號有所不同。
- 新功能或將添加至此電視。
- 裝置必須在容易接近插座的位置。有些裝置沒有開啓 / 關閉按鈕，需要拔除電源線才能關閉。
- 產品隨附的部件視乎型號而可能有所不同。
- 本手冊的產品規格或內容或會因產品功能升級而隨時變更，恕不另行通知。
- 爲了獲得最好的連接效果，HDMI 纜線和 USB 裝置接頭厚度應少於 10 毫米，寬度應少於 18 毫米。如果 USB 纜線或 USB 記憶卡與您的電視的 USB 端口尺寸不符，請使用支援 USB 2.0 的延長線。

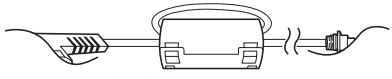




*A ≤ 10 毫米
*B ≤ 18 毫米

- 使用附有 HDMI 標誌的獲認證的纜線。
- 如您並非使用獲認證的纜線，可能無法於螢幕顯示畫面，或發生連接錯誤。（建議的 HDMI 線類型）
  - 高速 HDMI®/™ 線 （3 米或以下）
  - 高速 HDMI®/™ 線連以太網 （3 米或以下）
- 如何使用鐵氧體磁芯 （視型號而定）
  - 使用鐵氧體磁芯以減低電線中的電磁干擾。將電線捲入鐵氧體磁芯一圈。

[牆壁側] [電視側]



10 公分 (+ / -2 公分)

選購配件

另購項目可因改善品質而隨時變更或修改，恕不另行通知。如要購買這些項目，請聯絡經銷商。這些裝置僅配合某些型號使用。

型號名稱或設計可因產品功能升級、製造商或有關政策而有所改變 。

神奇遙控器

（視乎型號而定）

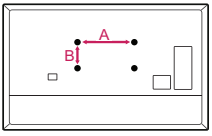
AN-MR18BA

檢查您的電視型號是否支援無線模組規格中的 Bluetooth，以確定它能否與神奇遙控器搭配使用。

掛牆架

（視乎型號而定）

確保使用符合 VESA 標準的螺絲及掛牆底座托架。掛牆底座套件的標準尺寸如下表所述。



型號	43LK57* 32/43LK61* 43UK62* 43UK63* 43/50UK65* 49UK75* 49SK85*	49UK62* 49/55UK63* 55UK65* 55UK75* 55SK80*
VESA （A x B）(毫米)	200 x 200	300 x 300
標準螺絲	M6	M6
螺絲數目	4	4
掛牆架	LSW240B MSW240	OLW480B MSW240
型號	65UK65* 65UK75* 55/65SK85* 65SK95*	75UK65* 75SK80*
VESA （A x B）(毫米)	300 x 300	600 x 400
標準螺絲	M6	M8
螺絲數目	4	4
掛牆架	OLW480B	LSW640B

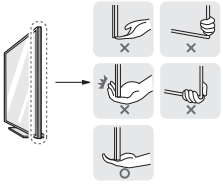
抬起與移動電視

不論任何類型及大小，抬起或移動電視時，請閱讀下文，確保安全搬運，以防電視刮花或受損。

- 建議以包裝箱或連同電視原有的包裝材料移動電視。
- 移動或抬起電視前，中斷電源線和所有纜線的連接。
- 當握住電視時螢幕應面向外側以避免損壞。



- 握穩電視的頂部和底部。確保不要握住透明部分、喇叭或喇叭排孔區域。



- 大型電視需最少二人共同運送。
- 使用人手搬運電視時，請根據以下圖示握住電視。



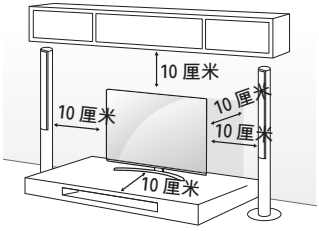
- 搬運電視時，請勿搖動或令電視受過度震動。
- 搬運電視時，保持電視直立，切勿轉向電視的側面，或向左方或右方傾斜電視。
- 請勿過份用力，否則可能導致外框底座屈曲 / 折彎，會損壞螢幕。
- 操作電視時，請勿損壞凸起的按鈕。

- 避免時常點按畫面，否則會導致畫面受損。
- 請勿握住纜線整理器移動電視，因其可能斷裂而導致受傷及電視損壞。
- 將底座安裝至電視組合時，電視螢幕應面向下方並放於附有軟墊的枱面或平面上以避免螢幕磨損。

安裝到桌面

1 將電視機抬起並擺放在桌子上，保持機身豎直。

- 與牆壁保留最少 10 厘米空間以保持空氣流通。

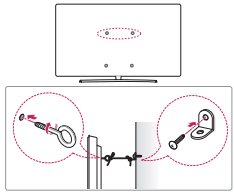


(視乎型號而定)

2 將電源線連接至牆上電源插座。

- 在組裝產品時，請勿於螺絲零件處使用油或潤滑劑等外來物質。
  (這樣可能會導致產品損壞。)
- 如將電視安裝於底座上，請採取措施以預防產品翻倒。否則，將可能導致電視翻倒並引致受傷。
- 請勿使用任何未經批准部件，以確保安全和產品壽命。
- 因使用未經批准物品而造成的任何損壞或傷害並不包括在保修範圍內。
- 請確保螺絲已正確插入並穩固旋緊。 (如果沒有穩固扭緊螺絲，電視在安裝後可能會向前傾斜。) 請勿過份用力及過度扭緊螺絲，否則螺絲可能會受損並無法正確上緊。

將電視固定到牆上



(視乎型號而定)

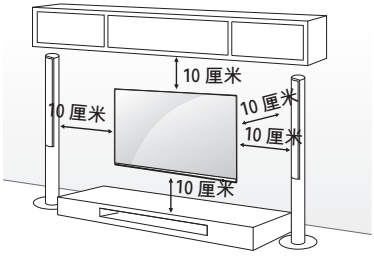
1 在電視背面插入並擰緊環首螺絲或 固定片和螺絲。
- 如果在環首螺絲位置中插入了螺絲，請先將這些螺絲取出。

2 用螺絲將固定片安裝到牆上。
將掛牆架的位置對準電視背面的環形螺絲。

3 以堅固繩索將環形螺絲及掛牆架連接。 確保繩索與平面保持水平。
- 使用堅固平臺或矮櫃以穩固承托電視。
- 掛牆架、螺絲及繩索需另行購買。 您可從本地經銷商取得其他配件。

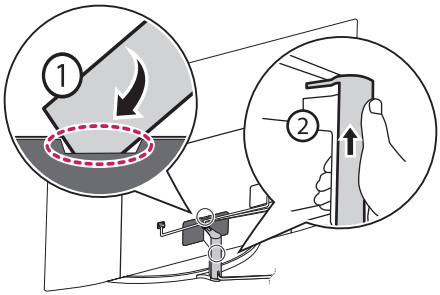
安裝到牆上

將選購的掛牆架小心安裝在電視後方，再將掛牆架安裝在與地面垂直的堅固牆壁上。將電視安裝在其他建築物料時，請聯絡合資格的人員。LG 建議應由合資格的專業安裝人員進行掛牆安裝。LG 掛牆架容易與連接的纜線一起移動。LG 掛牆架容易與連接的纜線一起移動。如不使用 LG 掛牆架，請使用能將裝置穩固於牆上並有足夠空間連接外部裝置的掛牆架。建議安裝固定的掛牆架之前先連接所有纜線。



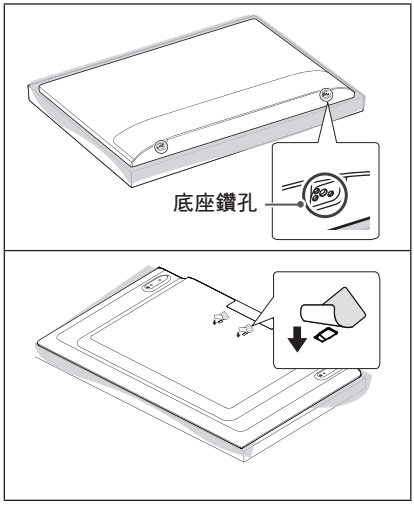
(視乎型號而定)

- 將電視安裝於掛牆架前需反方向轉動底座以將之移除。
- 如需螺絲和掛牆架的詳細資訊，請參閱其購買的資訊。
- 如希望將產品安裝於牆上，請於產品背面安裝 VESA 標準掛牆介面（選購配件）。於安裝套件以使用掛牆架（選購配件）時請注意固定以防墜落。
- 將電視以掛牆方式安裝時，務必避免使用電視背面的電源線和訊號線懸掛。
- 如牆壁會暴露於油或油霧，請勿在上面安裝此產品。此舉可能會損壞產品，並導致產品掉落。



- 切勿使用鋒利硬物來拆除纜線保護蓋。以免損壞纜線或機身。及造成人身傷害。(視乎型號而定)

- 安裝掛牆架時，建議使用膠帶蓋住支架孔，以防灰塵和昆蟲跑進去。(視乎型號而定)



連接

將不同的外置裝置連接至電視，並切換輸入模式以選取外置裝置。有關外置裝置連接的詳情，請參閱個別裝置隨附的手冊。

天線/纜線

使用 RF 線 （75 Ω） 將電視連接至牆壁天線插座。

- 如使用兩部電視以上，使用訊號分線器。
- 如畫面品質惡劣，正確安裝訊號放大器以改善圖像品質。
- 如有連接天線，但畫面品質惡劣，嘗試以正確方向重新對準天線。
- 天線及轉換器並不提供。
- 由於相關標準尚未確認，此電視不能直接接收超高清（3840 x 2160 像素）廣播。（視乎型號而定）

其他連接

將電視連接至外部裝置。爲達到最佳圖片及音訊質素，請使用 HDMI 纜線將外置裝置及電視連接。不提供部份獨立纜線。

HDMI

- 支援的 HDMI 音訊格式 （視型號而定） ：
  DTS （44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz）、
  DTS HD （44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz）、
  True HD （48 kHz）、
  Dolby Digital / Dolby Digital Plus （32 kHz / 44.1 kHz / 48 kHz）、
  PCM （32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz）

（僅限 UHD 型號）

- ⌂ → ⚙ → ⋮ （⚙） → {影像} → {其他設定} → {HDMI ULTRA HD Deep Color}
  - 開啓：支援 4K @ 50/60 Hz（4：4：4、4：2：2、4：2：0）
  - 關閉：支援 4K @ 50/60 Hz 8 位元（4：2：0）
  如果連接到輸入的設備也支援 ULTRA HD Deep Color，您的圖像會更清晰。不過，如果設備不支援，可能無法正常運作。如出現此情況，請將電視的 {HDMI ULTRA HD Deep Color} 設定爲停用。

USB

某些 USB 集線器可能不能運作。如連接至 USB 集線器的 USB 裝置未能被探測，可直接將裝置連接至於電視上的 USB 端口。

外部裝置

可用的外置裝置爲：Blu-ray 播放器、HD 接收器、DVD 播放器、VCR、音效系統、USB 儲存裝置、電腦、遊戲裝置及其他外置裝置。

- 外置裝置連接視乎型號而有所不同。
- 不論電視連接埠順序爲何，連接外部裝置至電視。
- 如果您在 Blu-ray/DVD 錄影機或 VCR 錄製電視節目，請確保電視訊號輸入纜線已連接電視及 DVD 錄影機或 VCR。有關錄影的詳情，請參閱連接裝置隨附的手冊。
- 有關操作說明，請參閱外部裝置手冊。
- 如果您將遊戲裝置連接至電視，使用遊戲裝置隨附的纜線。
- 於電腦模式，可能產生由解像度、垂直格式、對比度或亮度引致的雜音。如出現雜訊，將電腦輸出變更爲其他解像度或將刷新率變更爲其他頻率、或於 {影像} 功能表中調整亮度和對比度，直至影像變爲清晰。
- 於電腦模式，部份解像度設定可能未能正常運作，視乎顯示卡而定。
- 如您在電腦上播放 Ultra HD 內容，視乎電腦性能，視訊或音訊可能會間歇性中斷。（視乎型號而定）
- 建議使用CAT 7 網絡線連接區域網絡（LAN）。（僅限提供 LAN 連接埠時。）
- 若是 LK 系列，HDR （高動態範圍） 圖像僅可通過互聯網或通過 USB 和 HDMI 1.4 相容裝置檢視。

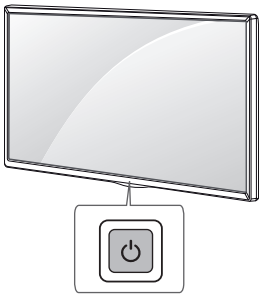
遠端 RS-232C 設定

要獲取有關 RS-232C 外置控制裝置的設定資訊，請瀏覽 *www.lg.com*。下載並閱讀手冊。（視乎型號而定）

⚠
- 請勿讓產品跌落或使其於與外部裝置連接時翻倒。否則將可能導致受傷或產品損壞。
- 當連接外部裝置如電視遊戲機時，確保連接線有足夠長度。否則，可能因產品跌落或翻倒而導致受傷或產品損壞。

使用按鈕

只需使用按鈕，即可輕鬆操作電視功能。



基本功能

	開機（按一下） 關機[1]（按住） 選單控制（按下[2]） 選單選擇（按住[3]）

1 所有操作中的應用程式將會關閉，令正在進行的所有錄影將會停止。
2 您可以在電視開啓時按下按鈕，以存取及調整選單。
3 當您存取調整選單時便可使用這功能。

調整功能表

當電視開啓時，按一下⏻按鈕。您可使用按鈕以調整功能表項目。

⏻	關閉電源。
⮌	改更輸入來源。
∧∨	捲動已儲存的節目。
+ −	調整音量。

使用遙控器

本手冊的描述基於遙控器的按鍵而定。請仔細閱讀本手冊並正確使用電視。

如需安裝電池，打開電池蓋，更換電池 (1.5 V AAA) 時配對電池格內的 ⊕ 及 ⊖ 端標籤，然後關上電池蓋。如要移除電池，以相反步驟執行動作。

確保將遙控器指向電視的遙控器感應器。

* 要使用按鈕，請按住超過 3 秒。



(因應產品型號或地區，部分按鈕功能和服務可能無法提供。)

⏻ (電源) 開啓或關閉電視。
TV/RAD 選擇收音機、電視和數碼電視節目。
(輸入) 改更輸入來源。
(快速設定) 進入快速設定。
LIVE ZOOM 放大指定畫面即可進行全螢幕觀看。
SUBTITLE 在數碼模式調用所需字幕。
數字鍵 輸入數字。
LIST 進入已儲存節目列表。
GUIDE 顯示節目指南。
QUICK ACCESS* 您可以使用相對應的數字按鈕存取應用程式或觀看電視。
+⊿− 調整音量。
ⓘ **INFO** 檢視目前節目及畫面的資訊。

(搜尋) 搜尋電視節目、電影及其他影片等內容，或在搜索欄中輸入字元以進行網上搜尋。
(靜音) 打開或關閉聲音。

* (靜音) 存取 {協助工具} 功能表。
∧ **P** ∨ 捲動已儲存的節目。
∧ **PAGE** ∨ 移至上一屏幕或下一屏幕。
1 **2** 串流服務按鈕 連接至影片串流服務。
(主頁) 進用功能表。

* (主頁) 顯示歷史記錄。
BACK 返回至上一層。
EXIT 清除所有 OSD 並返回電視畫面。
導航按鍵 (上/下/左/右) 滾動閱覽選單或選項。
⦿ **OK** 選擇選單或選項並確認輸入。
電視文字按鍵 (☰ **TEXT, T.OPT**) 此等按鍵用於電視文字廣播。
AD/✱ 將啓用音效說明功能。 (視乎型號而定)
REC/✱ 開始錄製和顯示錄製目錄。 (視型號而定) (僅限 Time Machine Ready 支援的型號)
控制按鈕 (■, ▶, ❚❚, ◀◀, ▶▶) 控制媒體內容。
⋯, ⋯, ⋯, ⋯ 訪問某些選單中的特殊功能。

使用神奇遙控器

本手冊的描述基於遙控器的按鍵而定。請仔細閱讀本手冊並正確使用電視。

當顯示「神奇遙控器電池電量低，請更換電池。」時，請爲遙控器更換電池。

如需安裝電池，打開電池蓋，更換電池 (1.5 V AA) 時配對電池格內的 ⊕ 及 ⊖ 端標籤，然後關上電池蓋。確保將遙控器指向電視機上的神奇遙控器感應器。如要移除電池，以相反步驟執行動作。



(因應產品型號或地區，部分按鈕功能和服務可能無法提供。)

* 要使用按鈕，請按住超過 3 秒。

(電源) 開啓或關閉電視。

STB PWR 只要將機頂盒新增至電視的通用遙控器便可開啓或關閉機頂盒。

數字鍵 輸入數字。

LIST 進入已儲存節目列表。

(螢幕遙控) 顯示螢幕遙控。

- 存取通用控制功能表。

AD * 視訊/音訊說明功能將會啓用。 (視乎銷售國家而定)

QUICK ACCESS* 您可以使用相對應的數字按鈕存取應用程式或觀看電視。

調整音量。

(靜音) 打開或關閉聲音。

* (靜音) 存取 {協助工具} 功能表。

P 捲動已儲存的節目。

* (語音辨識)

使用語音辨識功能時需要網絡連接。

一旦語音顯示列在電視畫面上啓動，

請按住該按鈕並大聲說出您的命令。

(主頁) 進用功能表。

* (主頁) 顯示歷史記錄。

(快速設定) 進入快速設定。

* (快速設定) 顯示 {所有設定} 功能表。

滾輪 (確認) 按下滾輪按鈕的中央以選擇功能表。您可使用滾輪鍵轉台。

△▽◁▷ (上/下/左/右) 按上、下、左或右按鈕以捲動 功能表。如您按下△▽◁▷按鈕時同時使用游標，游標將於螢幕消失，神奇遙控器將以一般遙控器運作。如要再次於螢幕上顯示游標，向左及右搖一搖神奇遙控器。

BACK 返回至上一層。

BACK * 清除所有 OSD 並返回先前的畫面輸入。

GUIDE 顯示節目指南。

1, 2 串流服務按鈕 連接至影片串流服務。

(輸入) 改更輸入來源。

* (輸入) 顯示外部輸入的所有清單。

, , , 訪問某些選單中的特殊功能。

* (紅色按鈕) 執行錄影功能。

電視文字按鍵 (TEXT, T.OPT) 此等按鍵用於電視文字廣播。

LIVE ZOOM 放大指定畫面即可進行全螢幕觀看。

FOCUS* 您可放大遙控器指向的畫面位置。

- 請勿將新舊電池混合使用。此可導致電池過熱及洩漏。
- 沒有按照兩極正確裝入電池可能會造成電池爆炸或洩漏，引致火災、人身傷害或環境污染。
- 本裝置使用電池。您的居住地區可能會有相關規定，要求您基於環境考量，妥善棄置這些電池。請洽詢地方當局，以瞭解棄置或回收的相關資訊。
- 電池內部或產品內部不可暴露於過熱的環境中，例如陽光、火光等。
- 在某些國家或收看模擬廣播時，部份按鍵可能無法使用。

註冊神奇遙控器

如何註冊神奇遙控器

如要使用神奇遙控器，首先與電視進行配對。

1 將電池放入神奇遙控器並開啓電視。
2 將神奇遙控器指向電視，然後按遙控器上的⏼滾輪（確認）。
* 如電視無法註冊神奇遙控器，請關閉電視然後重新開啓，再試一次。

如何取消註冊神奇遙控器

同時按下 **BACK** 和 （主頁） 按鈕五秒鐘，讓神奇遙控器與電視取消配對。

* 按住按 **GUIDE** 鈕將讓您取消並立即重新註冊神奇遙控器。

疑難排解

無法使用遙控器控制電視。

- 請檢查產品上的遙控器感應器，然後再試一次。
- 請檢查產品和遙控器之間是否有任何障礙物。
- 請檢查電池是否仍可使用，且已正確安裝（⊕對⊕, ⊖對⊖）。

沒有畫面顯示或沒有聲音。

- 請檢查產品是否已開機。
- 請檢查電線是否已連接至牆上插頭。
- 請連接其他產品，確認牆上插頭是否有問題。

電視突然關機。

- 檢查電源控制設定。電源供應可能中斷。
- 檢查自動關閉功能是否在設定相關的時間啓動。
- 如果在電視開機時沒有訊號，15 分鐘後若無任何動作，電視就會自動關機。

連接到電腦 （HDMI） 時，未偵測到任何訊號。

- 使用遙控器關閉/開啓電視。
- 重新連接 HDMI 纜線。
- 在開啓電視的情況下重新啓動電腦。

異常顯示情況

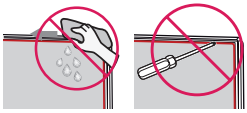
- 如接觸產品時感覺冰冷，於開啓時可能出現「跳線」情況。此爲正常情況，產品並無異常。
- 本屏幕是擁有數百萬像素的先進產品。微細黑點及/或高亮彩色光點（紅色、藍或綠色）可能以每百萬分一 單位出現於顯示屏幕上。此並不代表非正常運作及並不影響產品之性能及其可靠性。
  此現象亦會於第三方產品出現並不接受更換或退款。
- 於不同位置（左/右/上/下方）觀看時可能感受到屏幕不同亮度及顏色顯示。
  此現象的出現乃顯示屏幕的特性。此與產品性能無關，並其運作正常。
- 長時間顯示靜態圖像可能會引致殘像。請避免長時間在電視螢幕顯示固定畫面。

產生聲音

- 「咔噠」斷裂雜音：於觀看或關閉電視時出現的斷裂雜聲乃因溫度與濕度而導致塑料的熱收縮所產生。此等雜聲於遇熱膨脹之產品較爲常見。
- 電路嗡聲/屏幕訊噪：低水平雜音乃由高速切換電路以產生大量電流令產品運作時發出。其因應產品會有所不同。

雜音之產生並不影響產品的性能及可靠性。

⚠
- 清潔本產品時，切勿讓任何液體或異物滲入屏幕的上方或左右兩側的間隙。（視乎型號而定）



- 確保擰乾布上多餘的水分及清潔劑。
- 切勿直接在電視螢幕上噴水或清潔劑。
- 請只在乾布上噴上適度的水或清潔劑以擦拭螢幕。

規格

- 能源標籤上標明的每年能源消耗是根據 IEC 62087 及香港能源效益標籤計劃 （EELS） 來計算（根據不同的型號而定）。
- 實際的能源消耗取決於使用環境（觀看的內容、電視設定等）而定。

廣播規格		
	數碼訊號	類比訊號
電視制式	DTMB	PAL D/K, PAL I, NTSC M
節目範圍	DTMB : 21~69	PAL D/K：VHF/UHF 1~69, CATV 1~47 PAL I：VHF/UHF 1~69, CATV 1~47 NTSC M：VHF/UHF 2~78, CATV 1~71
外置天線抗阻	75 Ω	

（LK57*, LK61*, UK62* 除外）

無線模組 （LGSBWAC72） 規格	
無線 LAN （IEEE 802.11a/b/g/n/ac）	
頻率範圍	輸出功率（最大）
2400 轉 2483.5 MHz 5150 轉 5350 MHz 5725 轉 5850 MHz	14 dBm 16.5 dBm 11.5 dBm
Bluetooth	
頻率範圍	輸出功率（最大）
2400 轉 2483.5 MHz	8.5 dBm
• 由於每個國家的波段頻道有所不同，用戶無法更改或調整操作頻率。本產品配置之頻率爲區域頻率表內。 • 爲用戶着想，建議本裝置安裝及使用時，應最少離用戶身體 20 厘米。	

（只限 LK57*, LK61*）

無線 LAN 模組（LGSWFAC81）規格	
無線 LAN （IEEE 802.11a/b/g/n/ac）	
頻率範圍	輸出功率（最大）
2400 轉 2483.5 MHz	15.5 dBm
5150 轉 5350 MHz	14.5 dBm
5725 轉 5850 MHz	5.5 dBm

- 由於每個國家的波段頻道有所不同，用戶無法更改或調整操作頻率。本產品配置之頻率爲區域頻率表內。
- 爲用戶着想，建議本裝置安裝及使用時，應最少離用戶身體 20 厘米。

（只限 UK62*）

無線 LAN 模組（LGSWFAC71）規格	
無線 LAN （IEEE 802.11a/b/g/n/ac）	
頻率範圍	輸出功率（最大）
2400 轉 2483.5 MHz	13 dBm
5150 轉 5250 MHz	16.5 dBm
5725 轉 5850 MHz	10 dBm

- 由於每個國家的波段頻道有所不同，用戶無法更改或調整操作頻率。本產品配置之頻率爲區域頻率表內。
- 爲用戶着想，建議本裝置安裝及使用時，應最少離用戶身體 20 厘米。

環境條件		
環境條件	操作溫度	0 °C 至 40 °C
	操作濕度	低於 80 %
	儲存溫度	-20 °C 至 60 °C
	儲存濕度	低於 85 %

開放原始碼軟體注意事項

若要依據 GPL、LGPL、MPL 及其他開放原始碼授權取得對應的原始碼，請瀏覽 *http://opensource.lge.com.*

除了開放原始碼，所有涉及的授權條款、免責聲明和版權聲明均可供下載。

LG Electronics 也可應您要求，在由您支付相關費用（如媒體成本、運費及處理費）的條件下以 CD-ROM 方式提供開放原始程式碼，如有需要請寄送電子郵件至 opensource@lge.com。此服務提供的有效期限爲本產品最後裝運日起計算的三年。此服務提供的有效對象爲收到此資訊的任何人。

授權

受支援的授權因型號而有所不同。

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

法規

警告!

請勿將電視機置於搖晃不穩的位置。因爲電視機可能會掉落並導致嚴重個人傷害及傷亡。只要採取下列預防工作便可避免傷害事故發生（特別是兒童傷害）：

- 使用製造商建議的儲存櫃及支架置放電視。
- 只選用可安全支撐電視機的家具。
- 確保電視機不會懸在支撐家具的邊沿。
- 切勿將電視機置放在家具高處（如櫥櫃或書架），除非以適當的支撐物固定家具和電。
- 電視機和支撐家具之間不要夾置布料或其他材料。
- 告訴兒童爬上家具觸碰電視機或其控制器的危險性。

如要收藏並將電視機置放於其他地方，建議一律採用上述建議。

符號

~	AC 代表交流電。
⎓	DC 代表直流電。
⧈	代表第二級設備。
⏻	代表待機。
|	代表「開啓」（電源）。
ϟ	代表危險電壓。



記下電視的型號和序列號。
參考後蓋上的標籤，當您要求任何服務時將此資訊告之經銷商。

型號 _____

序號 _____

OWNER'S MANUAL

Safety and Reference

LED TV*
* LG LED TV applies LCD screen with LED backlights.

Please read this manual carefully before operating your set and retain it for future reference.

www.lg.com

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Warning! Safety Instructions



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- **Do not place the TV and/or remote control in the following environments:**
  - Keep the product away from direct sunlight.
  - An area with high humidity such as a bathroom
  - Near any heat source such as stoves and other devices that produce heat.
  - Near kitchen counters or humidifiers where they can easily be exposed to steam or oil.
  - An area exposed to rain or wind.
  - Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).
  - Near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
  - Do not install in excessively dusty places.

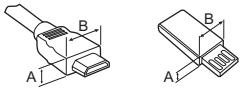
  Otherwise, this may result in fire, electric shock, combustion/ explosion, malfunction or product deformation.
- **Ventilation**
  - Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
  - Do not install the product on a carpet or cushion.
  - Do not block or cover the product with cloth or other materials while unit is plugged in.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.
- Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the device.
- Do not move the TV whilst the Power cord is plugged in.
- Do not use a damaged or loosely fitting power cord.
- Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.
- Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.
- **Disconnecting the Device from the Main Power**
  - The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.
- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.
- **Outdoor Antenna Grounding** (Can differ by country):
  - If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur.

    Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode. Antenna grounding according to the National Electrical Code, ANSI/NFPA 70

- **Grounding** (Except for devices which are not grounded.)
  - TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet. Ensure that you connect the earth ground wire to prevent possible electric shock.
- Never touch this apparatus or antenna during a lightning storm. You may be electrocuted.
- Make sure the power cord is connected securely to the TV and wall socket if not secured damage to the Plug and socket may occur and in extreme cases a fire may break out.
- Do not insert metallic or inflammable objects into the product. If a foreign object is dropped into the product, unplug the power cord and contact the customer service.
- Do not touch the end of the power cord while it is plugged in. You may be electrocuted.
- **If any of the following occur, unplug the product immediately and contact your local customer service.**
  - The product has been damaged.
  - If water or another substance enters the product (like an AC adapter, power cord, or TV).
  - If you smell smoke or other odors coming from the TV
  - When lightning storms or when unused for long periods of time. Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.
- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorized modification could void the user's authority to operate this product.
- Use only an authorized attachments / accessories approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product damage.
- Never disassemble the AC adapter or power cord. This may result in fire or electric shock.
- Handle the adapter carefully to avoid dropping or striking it. An impact could damage the adapter.
- To reduce the risk of fire or electrical shock, do not touch the TV with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.
- **Batteries**
  - Store the accessories (battery, etc.) in a safe location out of the reach of children.
  - Do not short circuit, disassemble, or allow the batteries to overheat. Do not dispose of batteries in a fire. Batteries should not be exposed to excessive heat.
- **Moving**
  - When moving, make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV. Otherwise, this may result in product damage, fire hazard or injury.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
- Do not allow an impact shock, any objects to fall into the product, and do not drop anything onto the screen.
- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it. It may cause damage to screen.
- **Cleaning**
  - When cleaning, unplug the power cord and wipe gently with a soft/dry cloth. Do not spray water or other liquids directly on the TV. Do not clean your TV with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol etc., which can damage the product and/or its panel. Otherwise, this may result in electric shock or product damage.

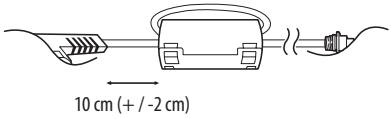
Preparing

- If the TV is turned on for the first time after it was shipped from the factory, initialization of the TV may take a few minutes.
- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.
- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 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.



- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI Cable Types)
  - High-Speed HDMI®/™ cable (3 m or less)
  - High-Speed HDMI®/™ cable with Ethernet (3 m or less)
- How to use the ferrite core (Depending on model)
  - Use the ferrite core to reduce the electromagnetic interference in the power cord. Wind the power cord on the ferrite core once.

[Wall side] [TV side]



10 cm (+ / -2 cm)

Separate Purchase

Separate purchase items can be changed or modified for quality improvement without any notification. Contact your dealer to buy these items. These devices only work with certain models.

The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

Magic Remote Control

(Depending on model)

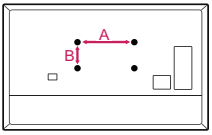
AN-MR18BA

Check whether your TV model supports Bluetooth in the Wireless Module Specification to verify whether it can be used with the Magic Remote.

Wall Mounting Bracket

(Depending on model)

Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.



Model	43LK57* 32/43LK61* 43UK62* 43UK63* 43/50UK65* 49UK75* 49SK85*	49UK62* 49/55UK63* 55UK65* 55UK75* 55SK80*
VESA (A x B) (mm)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW240B MSW240	OLW480B MSW240
Model	65UK65* 65UK75* 55/65SK85* 65SK95*	75UK65* 75SK80*
VESA (A x B) (mm)	300 x 300	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket	OLW480B	LSW640B

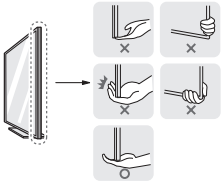
Lifting and moving the TV

Please note the following advice to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

- It 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 power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.

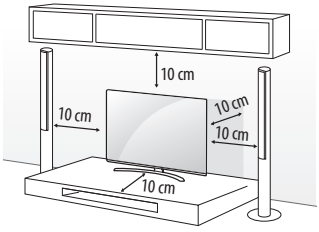


- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing / bending of frame chassis as it may damage screen.
- When handling the TV, be careful not to damage the protruding buttons.

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not move the TV by holding the cable holders, as the cable holders may break, and injuries and damage to the TV may occur.
- 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.

Mounting on the Table

1 Lift and tilt the TV into its upright position on a table.
- Leave a 10 cm (minimum) space from the wall for proper ventilation.

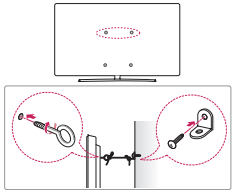


(Depending on model)

2 Connect the power cord to a wall outlet.

- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.
- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused by using unapproved items are not covered by the warranty.
- Make sure that the screws are inserted correctly and fastened securely. (If they are not fastened securely enough, the TV may tilt forward after being installed.) Do not use too much force and over tighten the screws; otherwise screw may be damaged and not tighten correctly.

Securing TV to the Wall



(Depending on model)

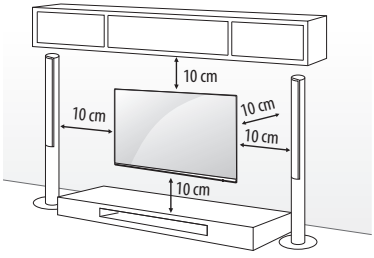
1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.
- If there are bolts inserted at the eye-bolts position, remove the bolts first.

2 Mount the wall brackets with the bolts to the wall.
Match the location of the wall bracket and the eye-bolts on the rear of the TV.

3 Connect the eye-bolts and wall brackets tightly with a sturdy rope.
Make sure to keep the rope horizontal with the flat surface.
- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are not provided. You can obtain additional accessories from your local dealer.

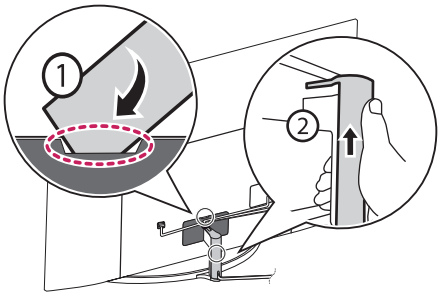
Mounting to the Wall

Attach an optional wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel. LG recommends that wall mounting be performed by a qualified professional installer. We recommend the use of LG's wall mount bracket. LG's wall mount bracket is easy to move with cables connected. When you do not use LG's wall mount bracket, please use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. It is advised to connect all the cables before installing fixed wall mounts.



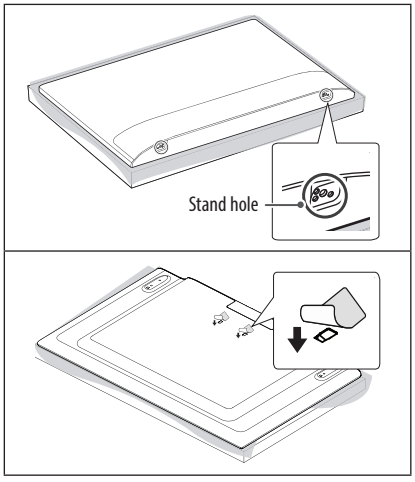
(Depending on model)

- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- For more information of screws and wall mount bracket, refer to the Separate purchase.
- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.
- When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.
- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.



- Do not use a sharp object when you detached the cable cover. This could damage the cable or the cabinet. It may also cause personal harm. (Depending on model)

- When installing the wall mounting bracket, it is recommended to cover the stand hole using tape, in order to prevent the influx of dust and insects. (Depending on model)



Connections

Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.

Antenna/Cable

Connect the TV to a wall antenna socket with an RF cable (75 Ω).

- 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.
- This TV cannot receive ULTRA HD (3840 x 2160 pixels) broadcasts directly because the related standards have not been confirmed. (Depending on model)

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. Some separate cable is not provided.

HDMI

- Supported HDMI Audio format (Depending on model) :
  DTS (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz),
  DTS HD (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz),
  True HD (48 kHz),
  Dolby Digital / Dolby Digital Plus (32 kHz / 44.1 kHz / 48 kHz),
  PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz)

(Only UHD models)

- → → → ( ) → **{Picture}** → **{Additional Settings}** → **{HDMI ULTRA HD Deep Colour}**
  - On : Support 4K @ 50/60 Hz (4:4:4, 4:2:2, 4:2:0)
  - Off : Support 4K @ 50/60 Hz 8 bit (4:2:0)

  If the device connected to Input Port also supports ULTRA HD Deep Colour, your picture may be clearer. However, if the device doesn't support it, it may not work properly. In that case, change the TV's **{HDMI ULTRA HD Deep Colour}** setting to Off.

USB

Some USB Hubs may not work. If a USB device connected using a USB Hub is not detected, connect it to the USB port on the TV directly.

External Devices

Available external devices are: Blu-ray player, HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- If you record a TV program on a Blu-ray/DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the **{PICTURE}** menu until the picture is clear.
- In PC mode, some resolution settings may not work properly depending on the graphics card.
- If ULTRA HD content is played on your PC, video or audio may become disrupted intermittently depending on your PC's performance. (Depending on model)
- When connecting via a wired LAN, it is recommended to use a CAT 7 cable. (Only when **LAN** port is provided.)
- For LK series, HDR (High Dynamic Range) pictures can be viewed over the Internet or via USB and HDMI 1.4 compatible devices.

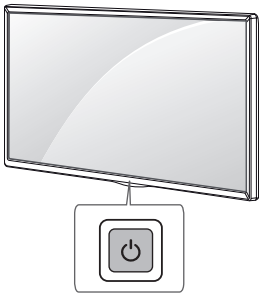
Remote RS-232C setup

To obtain the RS-232C external control setup information, please visit *www.lg.com*. Download and read the manual. (Depending on model)

- Do not drop the product or let it fall over when connecting external devices. Otherwise, this may result in injury or damage to the product.
- When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage the product.

Using Button

You can simply operate the TV functions, using the button.



Basic functions

	Power On (Press) Power Off [1] (Press and Hold) Menu Control (Press [2]) Menu Selection (Press and Hold [3])

1 All running apps will close, and any recording in progress will stop.
2 You can access and adjust the menu by pressing the button when TV is on.
3 You can use the function when you access menu control.

Adjusting the menu

When the TV is turned on, press the ⏻ button one time. You can adjust the Menu items using the button.

⏻	Turns the power off.
⇄	Changes the input source.
∧ ∨	Scrolls through the saved programmes.
+ −	Adjusts the volume level.

ENGLISH

Using Remote Control

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.

Make sure to point the remote control toward the remote control sensor on the TV.

* **To use the button, press and hold for more than 3 seconds.**



(Some buttons and services may not be provided depending on models or regions.)

(POWER) Turns the TV on or off.
TV/RAD Selects Radio, TV and DTV programme.
(INPUT) Changes the input source.
(Q. Settings) Accesses the Quick Settings.
LIVE ZOOM By zooming in on the selected area, you can view it in full screen.
SUBTITLE Recalls your preferred subtitle in digital mode.
Number buttons Enters numbers.
LIST Accesses the saved programmes list.
GUIDE Shows programme guide.
QUICK ACCESS* You can access apps or Live TV using the number buttons corresponding to the features.
+ / − Adjusts the volume level.
INFO Views the information of the current programme and screen.
(SEARCH) Search for content such as TV programmes, movies and other videos, or perform a web search by entering text in the search bar.
(MUTE) Mutes all sounds.
* **(MUTE)** Accesses the **{Accessibility}** menu.
P ∧ ∨ Scrolls through the saved programmes.
PAGE ∧ ∨ Moves to the previous or next screen.
1, 2 **Streaming Service buttons** Connects to the Video Streaming Service.
(HOME) Accesses the Home menu.
* **(HOME)** Shows the previous history.
BACK Returns to the previous level.
EXIT Clears on-screen displays and returns to TV viewing.
Navigation buttons (up/down/left/right) Scrolls through menus or options.
OK Selects menus or options and confirms your input.
Teletext buttons (TEXT, T.OPT) These buttons are used for teletext.
AD/✱ Audio descriptions function will be enabled. (Depending on the model)
REC/✱ Starts to record and displays record menu. (Depending on the model) (Only Time Machine Ready supported model)
Control buttons (■, ▶, ❚❚, ◀◀, ▶▶) Controls media contents.
·, ··, ∴, ⁘ These access special functions in some menus.

Using Magic Remote Control

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

When the message "Magic Remote battery is low. Please change the battery." is displayed, replace the battery.

To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the magic remote toward the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse.



(Some buttons and services may not be provided depending on models or regions.)

* **To use the button, press and hold for more than 3 seconds.**

(POWER) Turns the TV on or off.

STB PWR You can turn your set-top box on or off by adding the set-top box to the universal remote control for your TV.

Number buttons Enters numbers.

LIST Accesses the saved programmes list.

(Screen Remote) Displays the Screen Remote.

\- Accesses the Universal Control Menu.

AD* Video/audio descriptions function will be enabled.(Depending on country)

QUICK ACCESS* You can access apps or Live TV using the number buttons corresponding to the features.

Adjusts the volume level.

(MUTE) Mutes all sounds.

* **(MUTE)** Accesses the **{Accessibility}** menu.

P Scrolls through the saved programmes.

* **(Voice recognition)**

Network connection is required to use the voice recognition function.

Once the voice display bar is activated on the TV screen, press and hold the button and speak your command out loud.

(HOME) Accesses the Home menu.

* **(HOME)** Shows the previous history.

(Q. Settings) Accesses the Quick Settings.

* **(Q. Settings)** Displays the **{All Settings}** menu.

Wheel (OK) Press the center of the Wheel button to select a menu. You can change programmes by using the wheel button.

(up/down/left/right) Press the up, down, left or right button to scroll the menu. If you press buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.

BACK Returns to the previous level.

BACK * Clears on-screen displays and returns to last input viewing.

GUIDE Shows programme guide.

1, 2 **Streaming Service buttons** Connects to the Video Streaming Service.

(INPUT) Changes the input source.

* **(INPUT)** Displays a list of all the external inputs.

, , , These access special functions in some menus.

* **(Red Button)** Runs the record function.

Teletext buttons (**TEXT**, **T.OPT**) These buttons are used for teletext.

LIVE ZOOM By zooming in on the selected area, you can view it in full screen.

FOCUS* You can zoom in on the area where the remote control is pointed.

- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Batteries inside or inside the product shall not be exposed to excessive heat such as sunshine, fire or the like.
- In Analogue TV and some countries, some remote control buttons may not work.

Registering Magic Remote Control

How to register the Magic Remote Control

To use the Magic Remote, first pair it with your TV.

1 Put batteries into the Magic Remote and turn the TV on.
2 Point the Magic Remote at your TV and press the **Wheel (OK)** on the remote control.

* If the TV fails to register the Magic Remote, try again after turning the TV off and back on.

How to deregister the Magic Remote Control

Press the **BACK** and **(HOME)** buttons at the same time, for five seconds, to unpair the Magic Remote with your TV.

* Pressing and holding the **GUIDE** button will let you cancel and re-register Magic Remote at once.

Troubleshooting

Cannot control the TV with the remote control.

- Check the remote control sensor on the product and try again.
- Check if there is any obstacle between the product and the remote control.
- Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).

No image display and no sound is produced.

- Check if the product is turned on.
- Check if the power cord is connected to a wall outlet.
- Check if there is a problem in the wall outlet by connecting other products.

The TV turns off suddenly.

- Check the power control settings. The power supply may be interrupted.
- Check if the auto-off function is activated on the settings related time.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

When connecting to the PC (HDMI), no signal is detected.

- Turn the TV off/on using the remote control.
- Reconnect the HDMI cable.
- Restart the PC with the TV on.

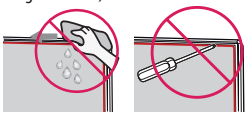
Abnormal Display

- If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product.
- This panel is an advanced product that contains millions of pixels. You may see tiny black dots and/or brightly coloured dots (red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product.
  This phenomenon also occurs in third-party products and is not subject to exchange or refund.
- You may find different brightness and colour of the panel depending on your viewing position(left/right/top/down).
  This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction.
- Displaying a still image for a prolonged period of time may cause image sticking. Avoid displaying a fixed image on the TV screen for a long period of time.

Generated Sound

- "Cracking" noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.
- Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product.
  This generated sound does not affect the performance and reliability of the product.

- When cleaning the product, be careful not to allow any liquid or foreign objects to enter the gap between the upper, left or right side of the panel and the guide panel. (Depending on model)



- Make sure to wring any excess water or cleaner from the cloth.
- Do not spray water or cleaner directly onto the TV screen.
- Make sure to spray just enough of water or cleaner onto a dry cloth to wipe the screen.

Specifications

- The annual energy consumption indicated on the energy label is measured in accordance with IEC 62087 and the Hong Kong Energy Efficiency Labelling Scheme (EELS) (depending on the model).
- The actual energy consumption depends on the usage environment (the content watched, TV settings, etc.).

Broadcasting specifications		
	Digital TV	Analogue TV
Television system	DTMB	PAL D/K, PAL I, NTSC M
Programme coverage	DTMB : 21~69	PAL D/K: VHF/UHF 1~69, CATV 1~47 PAL I: VHF/UHF 1~69, CATV 1~47 NTSC M: VHF/UHF 2~78, CATV 1~71
External antenna impedance	75 Ω	

(Except for LK57*, LK61*, UK62*)

Wireless module (LGSBWAC72) specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz 5150 to 5350 MHz 5725 to 5850 MHz	14 dBm 16.5 dBm 11.5 dBm
Bluetooth	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	8.5 dBm

- As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.
- For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body.

(Only LK57*, LK61*)

Wireless module(LGSWFAC81)Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	15.5 dBm
5150 to 5350 MHz	14.5 dBm
5725 to 5850 MHz	5.5 dBm

- As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.
- For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body.

(Only UK62*)

Wireless module(LGSWFAC71)Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	13 dBm
5150 to 5250 MHz	16.5 dBm
5725 to 5850 MHz	10 dBm

- As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.
- For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body.

Environment condition		
Environment condition	**Operating Temperature**	0 ℃ to 40 ℃
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 ℃ to 60 ℃
	Storage Humidity	Less than 85 %

Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit *http://opensource.lge.com*.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

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 a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

Licenses

Supported licenses may differ by model.



Regulatory

WARNING!

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.

Symbols

~	Refers to alternating current(AC).
⎓	Refers to direct current(DC).
⧈	Refers to class II equipment.
⏻	Refers to stand-by.
|	Refer to "ON" (power).
↯	Refers to dangerous voltage.



Record the model number and serial number of the TV.
Refer to the label on the back cover and quote this information to your dealer when requiring any service.

Model _____

Serial No. _____

LG
Life's Good

OWNER'S MANUAL

EXTERNAL CONTROL DEVICE SETUP

Please read this manual carefully before operating the set and retain it for future reference.

www.lg.com

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KEY CODES

- This feature is not available for all models.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH +, PR +	R/C Button	53	List	R/C Button
01	CH -, PR -	R/C Button	5B	Exit	R/C Button
02	Volume +	R/C Button	60	PIP(AD)	R/C Button
03	Volume -	R/C Button	61	Blue	R/C Button
06	> (Arrow Key / Right Key)	R/C Button	63	Yellow	R/C Button
07	< (Arrow Key / Left Key)	R/C Button	71	Green	R/C Button
08	Power	R/C Button	72	Red	R/C Button
09	Mute	R/C Button	79	Ratio / Aspect Ratio	R/C Button
0B	Input	R/C Button	91	AD (Audio Description)	R/C Button
0E	SLEEP	R/C Button	9E	LIVE MENU	R/C Button
0F	TV, TV/RAD	R/C Button	7A	User Guide	R/C Button
10 - 19	* Number Key 0 - 9	R/C Button	7C	Smart / Home	R/C Button
1A	Q.View / Flashback	R/C Button	7E	SIMPLINK	R/C Button
1E	FAV (Favorite Channel)	R/C Button	8E	►► (Forward)	R/C Button
20	Text (Teletext)	R/C Button	8F	◄◄ (Rewind)	R/C Button
21	T. Opt (Teletext Option)	R/C Button	AA	Info	R/C Button
28	Return (BACK)	R/C Button	AB	Program Guide	R/C Button
30	AV (Audio / Video) Mode	R/C Button	B0	► (Play)	R/C Button
39	Caption/Subtitle	R/C Button	B1	■ (Stop / File List)	R/C Button
40	Λ (Arrow Key / Cursor Up)	R/C Button	B5	RECENT	R/C Button
41	V (Arrow Key / Cursor Down)	R/C Button	BA	II (Freeze / Slow Play / Pause)	R/C Button
42	My Apps	R/C Button	BB	Soccer	R/C Button
43	Menu / Settings	R/C Button	BD	● (REC)	R/C Button
44	OK / Enter	R/C Button	DC	3D	R/C Button
45	Q.Menu	R/C Button	99	AutoConfig	R/C Button
4C	List, - (ATSC Only)	R/C Button	9F	App / *	R/C Button
4D	PICTURE	R/C Button	9B	TV / PC	R/C Button
52	SOUND	R/C Button			

* Key code 4C (0x4C) is available on ATSC/ISDB models which use major/minor channel.
(For South Korea, Japan, North America, Latin America except Colombia models)

EXTERNAL CONTROL DEVICE SETUP

- Image shown may differ from your TV.

Connect the USB to Serial converter/RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

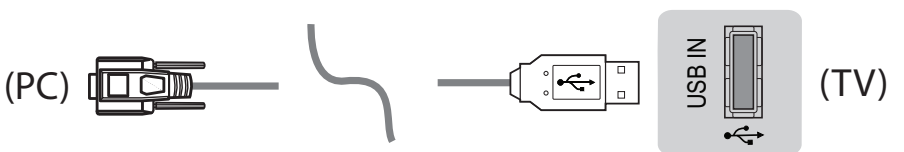
Note: The type of control port on the TV can be different between model series.

* Please be advised that not all models support this type of connectivity.

* Cable is not provided.

USB to Serial converter with USB Cable

USB Type

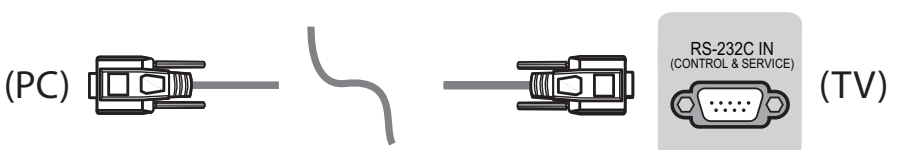


- LGTV supports PL2303 chip-based (Vendor ID : 0x0557, Product ID : 0x2008) USB to serial converter which is not made nor provided by LG.
- It can be purchased from computer stores that carry accessories for IT support professionals.

RS-232C With RS232C Cable

DE9 (D-Sub 9pin) Type

- You need to purchase the RS-232C (DE9, D-Sub 9pin female-to-female type) to RS-232C cable required for the connection between the PC and the TV, which is specified in the manual.



The connection interface may differ from your TV.

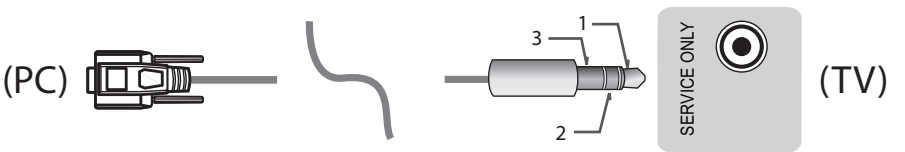
ENGLISH

Phone jack Type

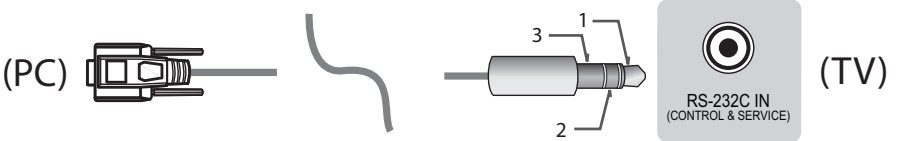
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.

* For other models, connect to the USB port.

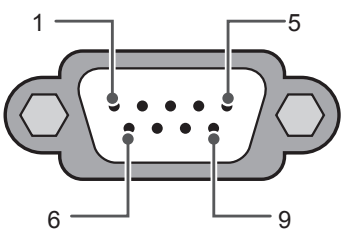
* The connection interface may differ from your TV.



- or



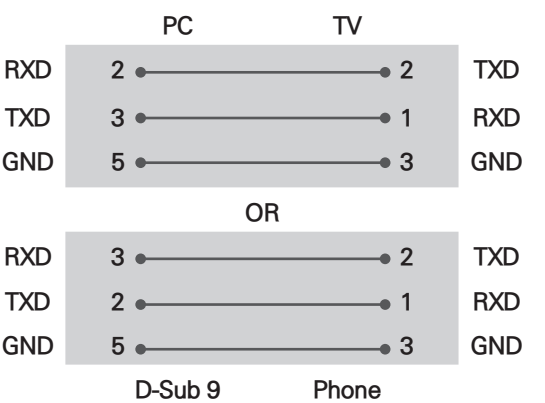
Customer Computer



RS-232C
(Serial port)

RS-232C configurations

3-Wire Configurations(Not standard)



Set ID

For Set ID number, see "**Real Data Mapping**" on p.6

1. Press **SETTINGS** to access the main menus.
2. Press the Navigation buttons to scroll to **(*General → About this TV or OPTION)** and press **OK**.
3. Press the Navigation buttons to scroll to **SET ID** and press **OK**.
4. Scroll left or right to select a set ID number and select **CLOSE**. The adjustment range is 1-99.
5. When you are finished, press **EXIT**.
   * (Depending on model)

Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command reference list

(Depending on model)

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power*	k	a	00 to 01	15. Balance	k	t	00 to 64
02. Aspect Ratio	k	c	(p.7)	16. Color (Colour) Temperature	x	u	00 to 64
03. Screen Mute	k	d	(p.7)	17. ISM Method (Only Plasma TV)	j	p	(p.8)
04. Volume Mute	k	e	00 to 01	18. Equalizer	j	v	(p.8)
05. Volume Control	k	f	00 to 64	19. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	20. Tune Command	m	a	(p.9)
07. Brightness	k	h	00 to 64	21. Channel (Programme) Add/Del(Skip)	m	b	00 to 01
08. Color/ Colour	k	i	00 to 64	22. Key	m	c	Key Codes
09. Tint	k	j	00 to 64	23. Control Backlight, Control Panel Light	m	g	00 to 64
10. Sharpness	k	k	00 to 32	24. Input select (Main)	x	b	(p.11)
11. OSD Select	k	l	00 to 01	25. 3D (Only 3D models)	x	t	(p.11)
12. Remote Control Lock Mode	k	m	00 to 01	26. Extended 3D (Only 3D models)	x	v	(p.12)
13. Treble	k	r	00 to 64	27. Auto Configure	j	u	(p.12)
14. Bass	k	s	00 to 64				

* Note: During playing or recording media, all commands except Power (ka) and Key (mc) are not executed and treated as NG.
With RS232C cable, TV can communicate "ka command" in power-on or power-off status. but with USB-to-Serial converter cable, the command works only if TV is on.

Transmission / Receiving Protocol

Transmission

[Command1][Command2][ ][Set ID][ ][Data][Cr]

[Command 1] : First command to control the TV. (j, k, m or x)
[Command 2] : Second command to control the TV.
[Set ID] : You can adjust the [Set ID] to choose desired monitor ID number in option menu. Adjustment range in TV is 1 to 99. If [Set ID] value is selected to '0', every connected set can be controlled.
* [Set ID] is indicated as decimal (1 to 99) on menu and as Hexadecimal (0x00 to 0x63) on transmission/receiving protocol.
[DATA] : To transmit command data (hexadecimal). Transmit 'FF' data to read status of command.
[Cr] : Carriage Return - ASCII code '0x0D'
[ ] : Space – ASCII code '0x20'

OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

* The set transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][ ][Set ID][ ][NG][Data][x]

* The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 00: Illegal Code

Real data mapping (Hexadecimal ь Decimal)

* When you enter the [data] in hexadecimal, refer to following conversion table.
* Channel Tune (ma) Command uses two-byte hexadecimal value([data]) to select channel number.

00 : Step 0	32 : Step 50 (Set ID 50)	FE : Step 254
01 : Step 1 (Set ID 1)	33 : Step 51 (Set ID 51)	FF : Step 255
...	...	...
0A : Step 10 (Set ID 10)	63 : Step 99 (Set ID 99)	01 00 : Step 256
...	...	...
0F : Step 15 (Set ID 15)	C7 : Step 199	27 0E : Step 9998
10 : Step 16 (Set ID 16)	C8 : Step 200	27 0F : Step 9999
...	...	...

* Commands may work differently depending on model and signal.

01. Power (Command: k a)

► To control Power *On or Off of the set.

Transmission[k][a][ ][Set ID][ ][Data][Cr]

Data 00 : Power Off 01 : *Power On

Ack [a][ ][Set ID][ ][OK/NG][Data][x]

► To Show TV is Power On or *Off

Transmission [k][a][ ][Set ID][ ][FF][Cr]

Ack [a][ ][Set ID][ ][OK][Data][x]

* Similarly, if other functions transmit 'FF' data based on this format, Acknowledgement feedback presents status about each function.

02. Aspect Ratio (Command: k c)
(Main Picture Size)

► To adjust the screen format. (Main picture format)
You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

Transmission [k][c][ ][Set ID][ ][Data][Cr]

Data 01 : Normal screen (4:3)
02 : Wide screen (16:9)
04 : Zoom
05 : Zoom 2 (Latin America except Colombia Only)
06 : Set by Program/ Original
07 : 14:9 (Europe, Colombia, Mid-East, Asia except South Korea and Japan)
09 : * Just Scan
0B : Full Wide (Europe, Colombia, Mid-East, Asia except South Korea and Japan)
10 to 1F : Cinema Zoom 1 to 16
0c : 21:9 (Depending on model)

Ack [c][ ][Set ID][ ][OK/NG][Data][x]

* Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
* In DTV/HDMI/Component mode (high-definition), Just Scan is available.
* Full wide mode may work differently based on model and is supported for DTV fully, and ATV, AV partially.

03. Screen Mute (Command: k d)

► To select screen mute on/off.

Transmission [k][d][ ][Set ID][ ][Data][Cr]

Data 00 : Screen mute off (Picture on) Video mute off
01 : Screen mute on (Picture off)
10 : Video mute on

Ack [d][ ][Set ID][ ][OK/NG][Data][x]

* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

04. Volume Mute (Command: k e)

► To control volume mute on/off.
You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][ ][Set ID][ ][Data][Cr]

Data 00 : Volume mute on (Volume off)
01 : Volume mute off (Volume on)

Ack [e][ ][Set ID][ ][OK/NG][Data][x]

05. Volume Control (Command: k f)

► To adjust volume.
You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [f][ ][Set ID][ ][OK/NG][Data][x]

06. Contrast (Command: k g)

► To adjust screen contrast.
You can also adjust contrast in the PICTURE menu.

Transmission [k][g][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [g][ ][Set ID][ ][OK/NG][Data][x]

07. Brightness (Command: k h)

► To adjust screen brightness.
You can also adjust brightness in the PICTURE menu.

Transmission [k][h][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [h][ ][Set ID][ ][OK/NG][Data][x]

08. Color/Colour (Command: k i)

► To adjust the screen Color(Colour).
You can also adjust colour in the PICTURE menu.

Transmission [k][i][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [i][ ][Set ID][ ][OK/NG][Data][x]

09. Tint (Command: k j)

► To adjust the screen tint.
You can also adjust tint in the PICTURE menu.

Transmission [k][j][ ][Set ID][ ][Data][Cr]

Data Red : 00 to Green : 64

Ack [j][ ][Set ID][ ][OK/NG][Data][x]

10. Sharpness (Command: k k)

► To adjust the screen sharpness.
You can also adjust sharpness in the PICTURE menu.

Transmission [k][k][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 32

Ack [k][ ][Set ID][ ][OK/NG][Data][x]

11. OSD Select (Command: k l)

► To select OSD (On Screen Display) on/off when controlling remotely.

Transmission [k][l][ ][Set ID][ ][Data][Cr]

Data 00 : OSD off 01 : OSD on

Ack [l][ ][Set ID][ ][OK/NG][Data][x]

12. Remote control lock mode (Command: k m)

► To lock the front panel controls on the monitor and remote control.

Transmission [k][m][ ][Set ID][ ][Data][Cr]

Data 00 : Lock off 01 : Lock on

Ack [m][ ][Set ID][ ][OK/NG][Data][x]

* If you are not using the remote control, use this mode.
When main power is off & on (plug-off and plug-in, after 20 - 30 seconds), external control lock is released.
* In the standby mode (DC off by off timer or 'ka', 'mc' command), and if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Treble (Command: k r)

► To adjust treble.
You can also adjust in the AUDIO menu.

Transmission [k][r][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [r][ ][Set ID][ ][OK/NG][Data][x]

* (Depending on model)

14. Bass (Command: k s)

► To adjust Bass.
You can also adjust in the AUDIO menu.

Transmission [k][s][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [s][ ][Set ID][ ][OK/NG][Data][x]

* (Depending on model)

15. Balance (Command: k t)

► To adjust balance.
You can also adjust balance in the AUDIO menu.

Transmission [k][t][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [t][ ][Set ID][ ][OK/NG][Data][x]

16. Color(Colour) Temperature (Command: x u)

► To adjust colour temperature. You can also adjust Color(Colour) Temperature in the PICTURE menu.

Transmission [x][u][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [u][ ][Set ID][ ][OK/NG][Data][x]

17. ISM Method (Command: j p) (Only Plasma TV)

► To control the ISM method. You can also adjust ISM Method in OPTION menu.

Transmission [j][p][ ][Set ID][ ][Data][Cr]

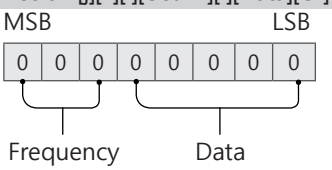
Data Min : 02: Orbiter
08: Normal
20: Color(Colour) Wash

Ack [p][ ][Set ID][ ][OK/NG][Data][x]

18. Equalizer (Command : j v)

► Adjust EQ of the set.

Transmission [j][v][ ][Set ID][ ][Data][Cr]



7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1st Band	0	0	0	0	0	0(decimal)
0	0	1	2nd Band	0	0	0	0	1	1(decimal)
0	1	0	3rd Band	...	...	...	...	...	...
0	1	1	4th Band	1	0	0	1	1	19(decimal)
1	0	0	5th Band	1	0	1	0	1	20(decimal)

Acknowledgement [v][ ][Set ID][ ][OK/NG][Data][x]

* It depends on model, and can adjust when sound mode is EQ adjustable value.

19. Energy Saving (Command: j q)

► To reduce the power consumption of the TV. You can also adjust Energy Saving in PICTURE menu.

Transmission [j][q][ ][Set ID][ ][Data][Cr]

Data
- 00 : Off
- 01 : Minimum
- 02 : Medium
- 03 : Maximum
- 04 : Auto (For LCD TV / LED TV) / Intelligent sensor (For PDP TV)
- 05 : Screen off

* (Depending on model)

Ack [q][ ][Set ID][ ][OK/NG][Data][x]

20. Tune Command (Command: m a)

* This command may work differently depending on model and signal.

• For Europe, Mid-East, Colombia, Asia except South Korea and Japan Model

► Select channel to following physical number.

Transmission [m][a][ ][Set ID][ ][Data 00][ ]
[Data 01][ ][Data 02][Cr]

* Analog Antenna/Cable

[Data 00][Data 01] Channel Data
Data 00 : High byte channel data
Data 01 : Low byte channel data
- 00 00 ~ 00 C7 (Decimal : 0 ~ 199)

Data 02 : Input Source (Analog)
- 00 : Antenna TV (ATV)
- 80 : Cable TV (CATV)

* Digital Antenna/Cable/Satellite

[Data 00][Data 01]: Channel Data
Data 00 : High Channel data
Data 01 : Low Channel data
- 00 00 ~ 27 0F (Decimal: 0 ~ 9999)

Data 02 : Input Source (Digital)
- 10 : Antenna TV (DTV)
- 20 : Antenna Radio (Radio)
- 40 : Satellite TV (SDTV)
- 50 : Satellite Radio (S-Radio)
- 90 : Cable TV (CADTV)
- a0 : Cable Radio (CA-Radio)

* Tune Command Examples:

1. Tune to the Analog antenna (PAL) Channel 10.
   Set ID = All = 00
   Data 00 & 01 = Channel Data is 10 = 00 0a
   Data 02 = Analog Antenna TV = 00
   Result = **ma 00 00 0a 00**

2. Tune to the digital antenna (DVB-T) Channel 01.
   Set ID = All = 00
   Data 00 & 01 = Channel Data is 1 = 00 01
   Data 02 = Digital Antenna TV = 10
   Result = **ma 00 00 01 10**

3. Tune to the satellite (DVB-S) Channel 1000.
   Set ID = All = 00
   Data 00 & 01 = Channel Data is 1000 = 03 E8
   Data 02 = Digital Satellite TV = 40
   Result = **ma 00 03 E8 40**

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
[Data 02][x][a][ ][Set ID][ ][NG][Data 00][x]

• For South Korea, North/Latin America except Colombia Model

► To tune channel to following physical/major/minor number.

Transmission [m][a][ ][0][ ][Data00][ ][Data01]
[ ][Data02][ ][Data03][ ][Data04][ ][Data05][Cr]

Digital channels have a Physical, Major, and Minor channel number. The Physical number is the actual digital channel number, the Major is the number that the channel should be mapped to, and the Minor is the sub-channel. Since the ATSC tuner automatically maps the channel from the Major / Minor number, the Physical number is not required when sending a command in Digital.

* Analog Antenna/Cable

Data 00 : Physical Channel Number
- Antenna (ATV) : 02~45 (Decimal: 2 ~ 69)
- Cable (CATV) : 01, 0E~7D (Decimal : 1, 14~125)

[Data 01 ~ 04]: Major/Minor Channel Number
Data 01 & 02: xx (Don't care)
Data 03 & 04: xx (Don't care)
Data 05: Input Source (Analog)
- 00 : Antenna TV (ATV)
- 01 : Cable TV (CATV)

* Digital Antenna/Cable

Data 00 : xx (Don't care)

[Data 01][Data 02]: Major Channel Number
Data 01 : High byte Channel Data
Data 02 : Low byte Channel Data
- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor Channel Number
Data 03 : High byte Channel Data
Data 04 : Low byte Channel Data

Data 05 : Input Source (Digital)
- 02 : Antenna TV (DTV) – Use Physical Channel Number
- 06 : Cable TV (CADTV) – Use Physical Channel Number
- 22 : Antenna TV (DTV) – Don't Use Physical Channel Number
- 26 : Cable TV (CADTV) - Don't Use Physical Channel Number
- 46 : Cable TV (CADTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 66 : Cable TV (CADTV) – Use Major Channel Number Only (One Part Channel)
- 0b : Cable DTV Plus – Use Physical Channel Number
- 2b : Cable DTV Plus – Don't Use Physical Channel Number
- 4b : Cable DTV Plus – Use Physical/Major Channel Number Only (One Part Channel)
- 6b : Cable DTV Plus – Use Major Channel Number Only (One Part Channel)

Two bytes are available for each major and minor channel data, but usually the low byte is used alone (high byte is 0).

* Tune Command Examples:
1. Tune to the Analog cable (NTSC) channel 35.
   Set ID = All = 00
   Data 00 = Channel Data is 35 = 23
   Data 01 & 02 = No Major = 00 00
   Data 03 & 04 = No Minor = 00 00
   Data 05 = Analog Cable TV = 01
   Total = **ma 00 23 00 00 00 00 01**

2. Tune to the digital antenna (ATSC) channel 30-3.
   Set ID = All = 00
   Data 00 = Don't know Physical = 00
   Data 01 & 02 = Major is 30 = 00 1E
   Data 03 & 04 = Minor is 3 = 00 03
   Data 05 = Digital Antenna TV = 22
   Total = **ma 00 00 00 1E 00 03 22**

   Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
   [Data 02][Data 03][Data 04][Data 05]
   [x][a][ ][Set ID][ ][NG][Data 00][x]

- For Japan Model

► To tune channel to following physical/major/minor number.

Transmission [m][a][ ][0][ ][Data00][ ][Data01]
[ ][Data02][ ][Data03][ ][Data04][ ][Data05][Cr]

* Digital Antenna/Satellite
Data 00: xx (Don't care)

[Data 01][Data 02]: Major Channel Number
Data 01: High byte Channel Data
Data 02: Low byte Channel Data
- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor/Branch Channel Number (Don't care in Satellite)
Data 03: High byte Channel Data
Data 04: Low byte Channel Data

Data 05 : Input Source (Digital/Satellite for Japan)
- 02 : Antenna TV (DTV)
- 42 : Antenna TV (DTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 62 : Antenna TV (DTV) – Use Major Channel Number Only (One Part Channel)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)

* Tune Command Examples:
1 Tune to the digital antenna (ISDB-T) channel 17-1.
   Set ID = All = 00
   Data 00 = Don't know Physical = 00
   Data 01 & 02 = Major is 17 = 00 11
   Data 03 & 04 = Minor/Branch is 1 = 00 01
   Data 05 = Digital Antenna TV = 02
   Total = **ma 00 00 00 11 00 01 02**

2. Tune to the BS (ISDB-BS) channel 30.
   Set ID = All = 00
   Data 00 = Don't know Physical = 00
   Data 01 & 02 = Major is 30 = 00 1E
   Data 03 & 04 = Don't Care = 00 00
   Data 05 = Digital BS TV = 07
   Total = **ma 00 00 00 1E 00 00 07**

* This feature is varied based on the model.

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
[Data 02][Data 03][Data 04][Data 05]
[x][a][ ][Set ID][ ][NG][Data 00][x]

21. Channel(Programme) Add/Del(Skip)
(Command: m b)

► To skip current channel(programme) for next time.

Transmission [m][b][ ][Set ID][ ][Data][Cr]

Data 00 : Del(ATSC,ISDB)/Skip(DVB) 01 : Add

Ack [b][ ][Set ID][ ][OK/NG][Data][x]

* Set the saved channel status to del(ATSC, ISDB)/ skip(DVB) or add.

22. Key (Command: m c)

► To send IR remote key code.

Transmission [m][c][ ][Set ID][ ][Data][Cr]

Data Key code - p.2.

Ack [c][ ][Set ID][ ][OK/NG][Data][x]

23. Control Backlight (Command: m g)

• For LCD TV / LED TV

► To control the backlight.

Transmission [m][g][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [g][ ][Set ID][ ][OK/NG][Data][x]

Control Panel Light (Command: m g)

• For Plasma TV

► To control the panel light.

Transmission [m][g][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

Ack [g][ ][Set ID][ ][OK/NG][Data][x]

24. Input select (Command: x b)
(Main Picture Input)

► To select input source for main picture.

Transmission [x][b][ ][Set ID][ ][Data][Cr]

Data
00 : DTV 01 : CADTV
02 : Satellite DTV 10 : ATV
ISDB-BS (Japan)
03 : ISDB-CS1 (Japan)
04 : ISDB-CS2 (Japan)
11 : CATV
20 : AV or AV1 21 : AV2
40 : Component1 41 : Component2
60 : RGB
90 : HDMI1 91 : HDMI2
92 : HDMI3 93 : HDMI4

Ack [b][ ][Set ID][ ][OK/NG][Data][x]

* This function depends on model and signal.

25. 3D(Command: x t) (only 3D models)
(Depending on model)

► To change 3D mode for TV.

Transmission [x][t][ ][Set ID][ ][Data 00][ ][Data 01]
[ ][Data 02][ ][Data 03][Cr]

* (Depending on model)

Data Structure

[Data 00] 00 : 3D On
01 : 3D Off
02 : 3D to 2D
03 : 2D to 3D

[Data 01] 00 : Top and Bottom
01 : Side by Side
02 : Check Board
03 : Frame Sequential
04 : Column interleaving
05 : Row interleaving

[Data 02] 00 : Right to Left
01 : Left to Right

[Data 03] 3D Effect(3D Depth): Min : 00 - Max : 14
(*transmit by Hexadecimal code)

* [Data 02], [Data 03] functions depend on model and signal.
* If [Data 00] is 00 (3D On), [Data 03] has no meaning.
* If [Data 00] is 01 (3D off) or 02 (3D to 2D), [Data 01], [Data 02] and [Data 03] have no meaning.
* If [Data 00] is 03 (2D to 3D), [Data 01] and [Data 02] have no meaning.
* If [Data 00] is 00 (3D On) or 03 (2D to 3D), [Data 03] works when 3D Mode (Genre) is manual only.
* All 3D pattern options ([Data 01]) may not be available according to broadcasting/video signal.

[Data 00]	[Data 01]	[Data 02]	[Data 03]
00	O	O	O
01	X	X	X
02	X	X	X
03	X	O	O

X : don't care

Ack [t][ ][Set ID][ ][OK][Data00][Data01][Data02]
[Data03][x]
[t][ ][Set ID][ ][NG][Data00][x]

26. Extended 3D(Command: x v) (only 3D models) (Depending on model)

► To change 3D option for TV.

Transmission [x][v][ ][Set ID][ ][Data 00][ ]
[Data 01][Cr]

[Data 00] 3D option
00 : 3D Picture Correction
01 : 3D Depth (3D Mode is Manual Only)
02 : 3D Viewpoint
06 : 3D Color Correction
07 : 3D Sound Zooming
08 : Normal Image View
09 : 3D Mode (Genre)

[Data 01] It has own range for each 3D option determined by [Data 00].

1) When [Data 00] is 00
00 : Right to Left
01 : Left to Right

2) When [Data 00] is 01, 02
Data Min: 0 - Max: 14 (*transmit by Hexadecimal code)
Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)
* This option works when 3D Mode (Genre) is manual only.

3) When [Data 00] is 06, 07
00 : Off
01 : On

4) When [Data 00] is 08
00 : Revert to 3D video from 3D-to-2D converted 2D video
01 : Change 3D video to 2D video, except 2D-to-3D video
* If conversion condition doesn't meet, command is treated as NG.

5) When [Data 00] is 09

00 : Standard 01 : Sport
02 : Cinema 03 : Extreme
04 : Manual 05 : Auto

Ack [v][ ][Set ID][ ][OK][Data00][Data01][x]
[v][ ][Set ID][ ][NG][Data00][x]

27. Auto Configure (Command: j u) (Depending on model)

► To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission [j][u][ ][Set ID][ ][Data][Cr]

Data 01 : To set Auto Configure

Ack [u][ ][Set ID][ ][OK/NG][Data][x]


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