



2016 Direct View UHD Training

65UH9500 WebOS^{3.0} UHD LCD TV

In-Start Service Menu Screens

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LG
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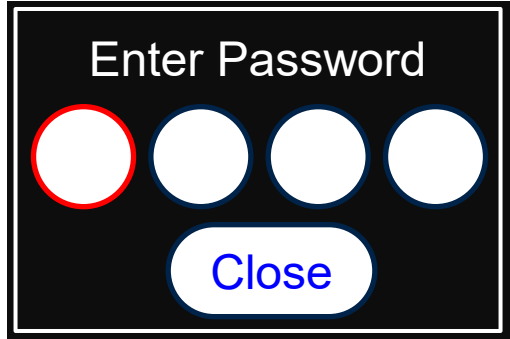
Accessing the Service Menu

To access the Service Menu.

- 1) You must have either Service Remote. p/n 105-201M or p/n MKJ39170828
- 2) Press "In-Start"
- 3) A Password screen appears.
- 4) Enter the Password.



105-201M



Note: A Password is required to enter the Service Menu. Enter; **0413**

Note 1: Older sets used **0000**.

Note 2 webOS Models: While in the In-Start Menu, the Cursor Right or Cursor Left does not work with the 105-201M remote on the Left. Use the Customer's Remote Control Cursor Keys.



MKJ39170828

Bring up the Service Menu using the Service Remote by pressing "In-Start" enter password 0413 or 0000.

Instart	
Model Name :	65UH9500-UA
Serial Number :	602RMDZ2X506
S/W Version:	
Micom Version	Select Item 3
BOOT Version :	4.02.11/4.02.31
UHD BE Version :	OK(40.03.18.00)
Chip Type :	LG1312
Wi-Fi Channel :	11
Wi-Fi MAC :	A8:D3:F7:95:0F:60
Wi-Fi Speed :	USB 2.0
MAC Address ::	C8:08:E9:B8:6D:2C
IP Address	192.168.1.24
SFU Key :	OK
Widevine :	LGTV16CLGE000192609
ESN Num. :	LGTV20162=21001012875
HDCP1.4 :	OK
HDCP2(Miracast/HDMI) :	OK/OK
DTCP :	B0009AA1C1
RF Receiver Version :	1.3.4.113
Wi-Fi/Magic Search :	OK/OK
Camera Ver. :	NULL
Debug Status :	RELEASE
SIGN Key :	PRODKEY
Eye Check :	OK
Control Key :	OK
Access USB Status :	1/-1(T)/-1(C)
UTT :	25
APP History Ver.:	709 (deua)
PQL DB :	:LGD_EDGE_S12178B_XX9665
Demo :	LCD_UHD_HDR_02

1. Adjust Check
2. ADC Data
- 3. Power Off Status**
4. System 1
5. System 2
6. System 3
7. Model Number D/L
8. Test Option
9. Spread Spectrum
10. Stable Count
11. SDP Server Selection
12. RF Remocon Test
13. OLED
14. Access Code

- Power On/Off Status** *Most Recent*
0. POWER_ON_BY_REMOTE_KEY(0x20)
 1. POWER_OFF_BY_INSTOP_KEY(0x15)
 2. POWER_ON_BY_POWER_ONLY(0x25)
 3. POWER_OFF_BY_LOCAL_KEY(0x1C)
 4. POWER_OFF_BY_COOLING(0x65)
 5. POWER_OFF_BY_PNWASHDONE(0x63)
 6. POWER_ON_BY_REMOTE_KEY(0x20)
 7. POWER_OFF_BY_REMOTE_KEY1(0x10)
 8. POWER_ON_BY_REMOTE_KEY(0x20)
 9. POWER_OFF_BY_LOCAL_KEY(0x1C)
 10. POWER_ON_BY_LOCAL_KEY(0x22)
 11. POWER_OFF_BY_REMOTE_KEY(0x20)
 12. POWER_ON_BY_LAST_POWERON(0x2B)
 13. POWER_OFF_BY_ACDET(0x03)
 14. POWER_ON_BY_LOCAL_KEY(0x22)
 15. POWER_OFF_BY_LOCAL_KEY(0x1C)
 16. POWER_ON_BY_LOCAL_KEY(0x22)
 17. POWER_OFF_BY_LOCAL_KEY(0x1C)
 18. POWER_ON_BY_LOCAL_KEY(0x22)
 19. POWER_OFF_BY_REMOTE_KEY(0x20)
 20. POWER_ON_BY_LAST_POWERON
 21. POWER_OFF_BY_ACDET(0x03)
 22. POWER_ON_BY_LOCAL_KEY(0x22)
 23. POWER_OFF_BY_ACDET(0x03)

The WebOS In-Start menu now includes the Power On Status. In other words, the reason the TV turned On the last time.

Example: POWER_ON_BY_LAST_POWERON indicates the TV was ON when AC was removed. When AC was returned, the TV turned on into the Last State in was in before power loss. So just below that entry should be POWER_OFF_BY_AC_DET.

Factor	MODE	Contents
Micom	POWER_OFF_BY_CPUCMD (CPU= Central Processing Unit, CMD = Command)	Power is turned off by a command directly issued from the Main Processor. Currently Not Used.
	POWER_OFF_BY_ABN (Abnormal)	Power off by abnormal status RESULT : Micom triggers TV power off CONDITION : When Display port model (NANO LED, LZ9600) does not detect port cable.
	POWER_OFF_BY_KEYTIMEOUT	Power off when TV is not turned off during a certain time RESULT : Micom force to trigger TV power off. CONDITION : When pressing power key while power on status, Main Processor does not response within 10 seconds or send delay command.
	POWER_OFF_BY_ACDET	Power off by not detecting AC (abnormal case) RESULT : Micom triggers TV power off CONDITION : Power detect port drops to low while power on status.
	POWER_OFF_BY_RESET	Power off by Micom Reset CONDITION 1 : Run 'Initialization' through Smart TV setting CONDITION 2 : Run 'App initialization'. CONDITION 3 : Reset is required for In Start setting is changed.
	POWER_OFF_BY_5VMNT (5 Volt Monitor)	Power off by 5V monitoring circuit not detecting 5V on the Main board. RESULT : Micom triggers TV power off CONDITION : When AC on (after power loss) or normal TV on, during stabilization check routine (Power Detect Checks for a High on 5V Check) if it fails after power on, TV is turned off.
	POWER_OFF_BY_NO_POLLING	Power off when receiving no Acknowledge (ACK) signal. Debug Status : Must be in Release Mode. RESULT : TV powers off/on (Reboots). CONDITION : There is no I2C response from Main Processor for 15 seconds. ==> If unit in warm standby, power off occurs.
	POWER_OFF_BY_POWER_BD_PROTECT (Power Board Protect)	RESULT : Micom triggers TV power off (for power board safety) CONDITION : When the power board is overloaded. (not in use in GP3, GP2R)
	POWER_OFF_BY_REMOTE_KEY2 (POWER_OFF_BY_1SEC_POWER_OFF)	Similar with POWER_OFF_BY_KEYTIMEOUT, but different concept. RESULT : Micom force to trigger TV power off within 1 seconds. CONDITION : When TV power on, CPU does not response within 5 seconds, and then pressing power key.
	POWER_OFF_BY_PLLFAIL (Phase Lock Loop Fail)	RESULT : Micom triggers TV power off/on (reboot), as it due to considering SOC stops working. CONDITION : When power on, there is no Alive ACK from SOC.
CPU	POWER_OFF_BY_REMOTE_KEY	Power off by remote key
	POWER_OFF_BY_OFF_TIMER	Power off by Off timer

Factor	MODE	Contents
	POWER_OFF_BY_SLEEP_TIMER	Power off by sleep timer
	POWER_OFF_BY_ABNORMAL1 (POWER_OFF_BY_TS_END)-DVR Ready	Power off by abnormal status Power off by time shift end (Record End) Power off by remote key and local key with external HDD for DVR feature connected and Time shift is working
	POWER_OFF_BY_INSTOP_KEY	Power off by In-Stop Key
	POWER_OFF_BY_AUTO_OFF	Power off by auto off function 1. When it lasts for 15 minutes that no signal and no remote key input. 2. When screen mute status lasts for 2 hours.
	POWER_OFF_BY_ON_TIMER	Power off by On timer Power off when no remote and local key input for 2 hours after power on by On timer.
	POWER_OFF_BY_RS232C	Power off by RS232C command
	POWER_OFF_BY_SWDOWN	Power off by Software Download
	POWER_OFF_BY_LOCAL_KEY	Power off by Local Key. (TVs Keyboard)
	POWER_OFF_BY_CPU_ABNORMAL (Central Processing Unit)	Power off by CPU Abnormal status 1. Power off (Last Cold, Last Cool, Last Warm) CONDITION : When power on and checking Power on Mode, abnormality appears. 2. Power off in CPU Abnormal Case (Exception) (Release Mode : Reboot, Debug, Event Mode : Power off)
	POWER_OFF_BY_INV_ERROR	Power off by LCD module Inverter Error (One the 5 th high pulse).
	POWER_OFF_BY_HOMING_COMPLETE	Power off by Cable Card Update (USA only)
	POWER_OFF_BY_UNKNOWN	Power off by the other causes Power off status values. ==> it occurs when Micom EEPROM write error or EEPROM initializes. Displayed when Micom EEPROM is initialized, or value read from Micom EEPROM is not among defined

MODE	Contents
POWER_OFF_BY_MICOM_RESET	Reset Circuit of the Microprocessor activated.
POWER_OFF_BY_VERIFY_FAIL	RESULT : System shut down. CONDITION : Verification for LG application fails.
POWER_OFF_BY_SIG_DETECT	Monitors the Sync Signal level of the Incoming signal
POWER_OFF_BY_DATA_FLASH	When Micom EEPROM is initialized, log for reference of EEPROM initialization error. For log, actual Power off does not happen.
POWER_OFF_BY_VERIFY_FAIL	RESULT : System shut down. CONDITION : verification for LG application fails.
POWER_OFF_BY_CIPPLUS_SEARCH_END	CI+ search complete. (Log) Function of internal programming.
POWER_OFF_BY_QUICK_START	Power Off by QSM (Quick Start Menu)
POWER_ON_BY_POWER_ONLY	Power on by Power only.
POWER_ON_BY_LAST_POWERON	String for from HOT status to Power on automatically (In general, with Power On status, AC off/on happens.)
POWER_ON_BY_HDMI_CEC	Power on by HDMI CEC message "image view on".
POWER_ON_BY_STORE_POWERON	Power on by store-only remote.
POWER_ON_BY_MICOM_PWR_OFF_ON	String for Auto Power Off/On (Micom Reboots by PLL_FAIL / COMP_FAIL / RESET and so on.)
POWER_ON_BY_OPERATOR_SEARCH_TIMER	Power on at reservation time for CI plus operator search.
POWER_ON_BY_WOL_ONOFF	Power on by Wake On LAN from external device through network.
POWER_ON_BY_WOW_ONOFF	Power on by Wake on WiFi
POWER_ON_BY_LAST_SUSPEND	Power on by suspend mode
POWER_OFF_BY_PNWASH	When Clear Panel Noise (JB) Compensation is started from the Customer's Menu with TV ON
POWER_OFF_BY_COOLING	When Clear Panel Noise (JB) Compensation is started, RS Comp runs first, the Power Off and Panel Cooling
POWER_ON_BY_PNWASHSTART	When Clear Panel Noise (JB) Compensation is run, after Cooling 53 min, TV is turned on to run line Scan.
POWER_OFF_BY_FAN_OFF	The internal Fan has failed, No Fan Rotation (2 minutes).
POWER_OFF_BY_PNWASHDONE	After Clear Panel Noise (JB) Compensation is complete 1.5hr, TV is turned off.