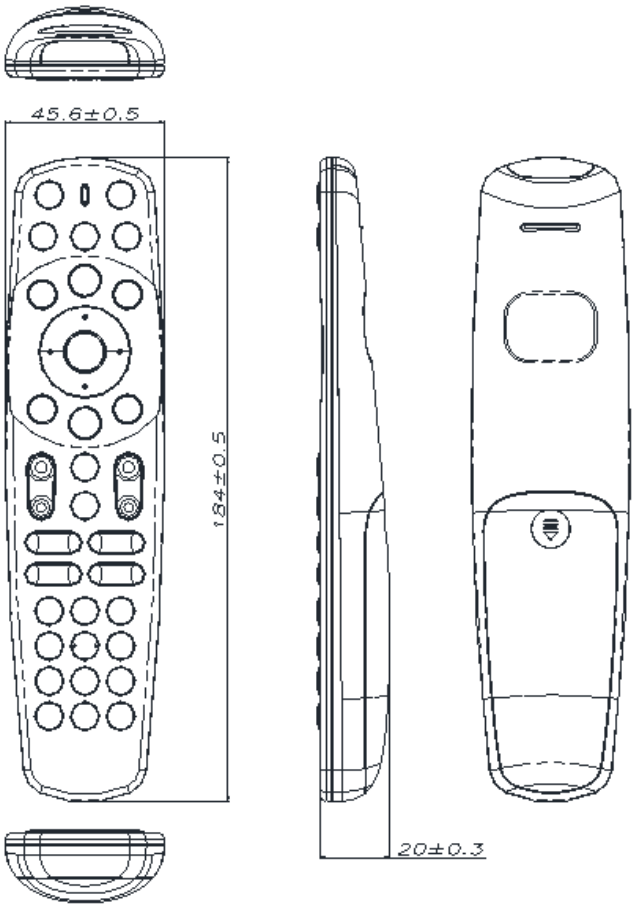
APPENDIX H

: USER'S MANUAL

1 - Mechanical Requirements

1.1 - Design

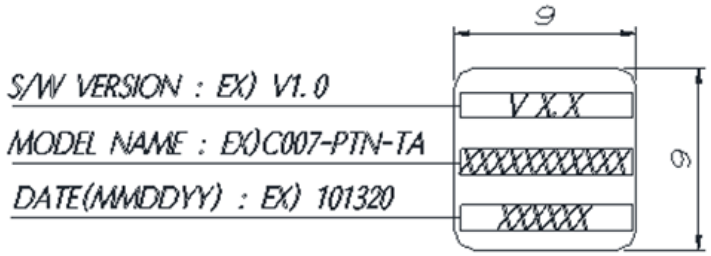
- Dimensions : 45.6(±0.5) x 184(±0.5) x 20(±0.3)mm



DESCRIPTION		SPECIFICATION	DESCRIPTION		SPECIFICATION
TOP CASE	MATERIAL	HIPS	RUBBER BUTTON	MATERIAL	SILICONE
				FORMING COLOR	WHITE (TRANSLUCENT)
				PRINT COLOR	BLACK
	PRINT COLOR (buzztv)	PT Cool Gray 1C		PRINT COLOR(BuzzTV)	WHITE
					PT 2125C (BLUE)
				PRINT COLOR(HOME)	WHITE
					BLACK
BOTTOM CASE	MATERIAL	HIPS		PRINT COLOR(UP/DOWN/LEFT/RIGHT)	WHITE
	PRINT COLOR	PT Cool Gray 1C (Text)			
		PT Cool Gray 1C (QR Background)			
		BLACK (QR Code)			
BATTERY COVER	MATERIAL	HIPS		PRINT COLOR(OK)	BLACK
				PRINT COLOR(RED)	PT 1795 (RED)
				PRINT COLOR(GREEN)	P.T 2257C (GREEN)
				PRINT COLOR(YELLOW)	P.T 7549C (YELLOW)
WINDOW FILTER	MATERIAL	PC		PRINT COLOR(BLUE)	P.T 2173C (BLUE)
				SURFACE TREATMENT	SILICONE COATING

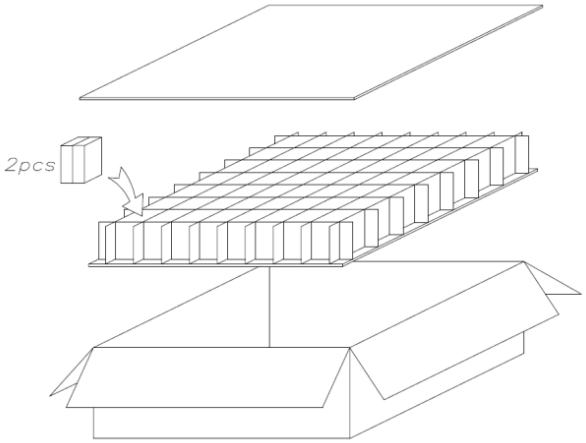
1.2 - Picture (for reference only)

1.3 - Batch Number



1.4 - Packing

1.4.1 - Packing definition



- PE bag dimensions : 80 x 250mm (LDPE 0.05t)
- Box dimensions : W 600 x D 400 x H 240 mm
- Quantity per box : 140pcs

1.4.2 - Pallet definition

- Pallet itself : W 1200 x D 800 x H 170mm
- Pallet dimensions : W 1200 x D 800 x H 1370mm
- Quantity Per Pallet : 2,800pcs (4 boxes / layer - 5 layers)

2 – Electrical Requirements

2.1 - Electrical Characteristic

Parameter		Condition	Spec	Unit
Frequency Range		**Bluetooth Low Energy Specification**	2.402 ~ 2.480	[GHz]
Channel			40	[Num]
RF Power			-1	[dBm]
Test channel		**TC-3000 (RF measuring instrument)**	19	[Num]
RF Power	**PAvg**		-20~+10	[dBm]
	PMax		+8	[dBm]
	Pmin		-20	[dBm]
Modulation Characteristics	**Δf1 avg**		225~275	[KHz]
	Δf2 avg		≥ 185	[KHz]
	Δf2/Δf1		0.8	
	Δf2min		≥ 92.5	[KHz]
	Δf2rate		≥ 99	[%]
Carrier Frequency Offset and Drift	**fTx-fn**		≤ 150	[KHz]
	Δf0-fn		≤ 50	[KHz]
	f1-f0		≤ 20	[KHz]
	Δfn-f(n-5)		≤ 20	[KHz]
Operating Voltage		**RF (Bluetooth)**	2.2~3.6	[V]
LVI Voltage		**Low Voltage Indicate**	≤ 2.25	[V]
Operating current (IR)		**Power: 3V**	≤ 80	[mA]
Leakage current			≤ 15	[μA]
Operating current (RF KEY)		**Power: 3V Non-directional distance**	≤ 25	[mA]
RF range (distance)			≥10	[m]
IR Range		**Direct**	≥12	[m]
		Horizontal	7 (±30°)	[m]
PCB		**PCB Material**	FR-1(STH)	-

3 - Software Requirements

3.1 - Bluetooth 4.2 LE identification

a) Device Name: BuzzTV BT-400

b) Vender ID: 0x0957

c) Product ID: 0x1001

d) Vendor ID Source : Blutooth SIG

e) Hardware Version : 'T', 'L', ' ', 'V', '0', '1'

3.2 - Advertising

a) Remote control sends the un-direct advertising data for 90 seconds in Pairing Mode.

b) When Remote control tries to reconnect, it sends Undirect Advertising for 10 sec. And it will prohibit connection with other STB using white list.

c) Additional Data of Un-direct advertising Data

Item	Data	Detail
Appearance	0x80, 0x01	Generic Remote Control
UUID	0x12, 0x18,0x0F, 0x18	Human Interface Device
Complete local name	"B", "u", "z", "z", "T", "V", " ", "B", "T", "-","4","0","0"	BuzzTV BT-400

3.3 - Scan Response Data

Item	Data	Detail
Complete local name	"B", "u", "z", "z", "T", "V", " ", "B", "T", "-","4","0","0"	BuzzTV BT-400

3.4 - Pairing mode

a) Press [OK] and [Home] keys for longer than 4 seconds. RED LED stays ON while pressing [OK] and [Home] keys.

b) After 4 seconds, the RED LED starts blinking so that to confirm the remote control has entered into pairing mode.

c) After Remote control has entered pairing mode, Remote control can send the IR signal of [Up], [Down], [Left], [Right], [OK], [Back] and [Home] keys.

d) If pairing is successfully made, the RED LED goes OFF and remote control starts

working in Bluetooth.

e) If the user presses any key during pairing mode, the remote control stops pairing and goes back to IR mode, excepted [Up], [Down], [Left], [Right], [OK], [Back] and [Home] keys.

f) When Remote control has bonding information, If Remote control receives a pairing request command from the STB, Remote control deletes the previous information and proceeds with pairing.

g) When Remote control has bonding information, If STB does not send a pairing request command and proceeds with the Re-connection process, Remote control also proceeds with the Re-connection process.

h) If pairing is not successfully made for 90 seconds, the RED LED goes ON for 4 seconds and then goes OFF. The remote control stops pairing and goes back to previous status.

3.5 - Connection Parameter

a) Connection Interval Time: 11.25 ms

b) Connection Slave Latency: 99

c) Connection Supervision Time Out: 5 sec

3.6 - Factory Reset mode

a) Press [Down] and [0] keys for longer than 4 seconds. RED LED stays ON while pressing [Down] and [0] keys.

b) The remote control blinks 3 times to confirm that it is deleting the existing pairing table and deleting the existing TV codes table.

c) When Factory Reset is completed, RED LED goes OFF and the remote control works in IR mode.

3.7 - IR backup in paired mode

a) If, for any reason, the RF connection is lost, Remote control sends the IR code of the corresponding pressed key.

b) Remote control tries to reconnect for sending the RF code.

3.8 - Remote clear pairing

a) Remote clear pairing using TEST service.
(Service UUID : 0000ffe0-0000-1000-8000-00805f9b34fb)
(Characteristic UUID : 0000fff5-0000-1000-8000-00805f9b34fb)

b) On receiving a write command [1 byte with value 0x02] on this characteristic, RCU should send notification back to STB indicating whether receives the command or not.

c) RCU should wait for LL_TERMINATE_IND PDU with error code (0x13, Remote User Terminated Connection).

d) Upon receiving such PDU, RCU should delete the bond information, and switch to pure IR mode.

e) Once RCU returns to IR mode, sends IR command “clearing pairing” . 0x97 to STB to indicate the bond information has been removed from RCU successfully.

3.9 - Couch mode

a) If a key or multiple keys are pressed continuously for more than 30s, the remote control stops transmission in order to protect the battery discharge.

3.10 - OAD mode

a) OAD proceeds according to the Telink specification.

3.11 - Key codes

a) In Bluetooth mode, HID Profile is used.

b) In IR Mode, NEC format is used
- Structure of the NEC format: Custom Code - Data - Inverse data
- Custom Code : 0x02BD (16 bit)
- Code list is detailed in Table 1

Key Name	Event constant name	IR Code (HEX)	HID	
			Usage Page	Usage ID
Input	KEY_TV_INPUT	TV IR Control Only		
Power	KEY_POWER	0x45	0x0C	0x0030
Rewind	KEYCODE_MEDIA_REWIND	0xDA	0x0C	0x00B4
Play/Pause	KEYCODE_MEDIA_PLAY_PAUSE	0x62	0x0C	0x00CD
Fast Forward	KEYCODE_MEDIA_FAST_FORWARD	0x84	0x0C	0x00B3

Menu	KEYCODE_KEY_MENU	0xD6	0x0C	0x0040
BuzzTV	KEYCODE_BUZZTV	0x9C	0x07	0x0042
Guide	KEYCODE_GUIDE	0xF9	0x07	0x0043
Up	KEYCODE_UP	0xCA	0x0C	0x0042
Left	KEYCODE_LEFT	0x99	0x0C	0x0044
OK	KEYCODE_OK	0xCE	0x0C	0x0041
Right	KEYCODE_RIGHT	0xC1	0x0C	0x0045
Down	KEYCODE_DOWN	0xD2	0x0C	0x0043
Back	KEYCODE_BACK	0xD0	0x0C	0x0224
Home	KEYCODE_HOME	0x95	0x0C	0x0223
Cursor	KEYCODE_CURSOR	0x50	**N/A**	
VOL+	KEYCODE_VOL_UP	0xDD	0x0C	0x00E9
VOL-	KEYCODE_VOL_DOWN	0x8C	0x0C	0x00EA
Last	KEYCODE_LAST_CH	0x51	0x07	0x0041
Info	KEYCODE_INFO	0xD8	0x07	0x0040
CH+	KEYCODE_CHANNEL_UP	0x9A	0x0C	0x009C
CH-	KEYCODE_CHANNEL_DOWN	0xCD	0x0C	0x009D
Red	KEYCODE_RED	0x46	0x07	0x0044
Green	KEYCODE_GREEN	0x47	0x07	0x0045
Yellow	KEYCODE_YELLOW	0x48	0x07	0x0068
Blue	KEYCODE_BLUE	0x49	0x07	0x0069
1	KEYCODE_1	0x92	0x07	0x001E
2	KEYCODE_2	0x93	0x07	0x001F
3	KEYCODE_3	0xCC	0x07	0x0020
4	KEYCODE_4	0x8E	0x07	0x0021
5	KEYCODE_5	0x8F	0x07	0x0022
6	KEYCODE_6	0xC8	0x07	0x0023
7	KEYCODE_7	0x8A	0x07	0x0024
8	KEYCODE_8	0x8B	0x07	0x0025
9	KEYCODE_9	0xC4	0x07	0x0026
PG Down	KEYCODE_PAGE_DOWN	0xD9	0x07	0x004E
0	KEYCODE_0	0x87	0x07	0x0027
PG Up	KEYCODE_PAGE_UP	0x82	0x07	0x004B

※ Remote Clear Pairing : 0x97 (Send Only IR Code)

Table 1: Code list

3.12 - Battery level

a) Remote control sends the information for battery level using Bluetooth battery service.

b) Level of LVD is 2.25V .

c) If the battery voltage reached the LVD value, Remote control cannot enter the pairing mode, the factory reset mode, TV Programming Mode and SmartSet (TV Setting) Mode.

d) If user presses the button of the Remote Control in LVD state, the red LED of the Remote Control blinks 5 times.

e) In the LVD state, when the battery voltage level exceeds the LVD level, the Remote Control in both of IR Mode and BLE Connection Status can enter pairing mode and factory reset mode.

f) If the battery voltage is under 2.0V, Remote control does not operate.

g) When the battery voltage is 2.1V or more, the Remote control operates again.

h) Voltage-Percentage Table

Voltage	Percentage (%)	Note
Over 3.0V	100%	
2.90V	90%	
2.80V	80%	
2.70V	70%	
2.60V	60%	
2.50V	50%	
2.40V	40%	
2.30V	30%	
2.25V	25%	Low Battery Level
2.20V	20%	Low Battery Level
2.15V	15%	Low Battery Level
2.10V	10%	Low Battery Level
2.05V	5%	Low Battery Level
2.00V	0%	Cut off Level

3.13 - Bug Report

a) Press the [BACK] + [OK] keys to get the STB bug report.

b) In IR mode, the sent code data is 0x96.

c) In RF mode, the sent codes data are [BACK] press event and [OK] press event.

3.14 – Accessibility

a) Press the [DOWN] + [BACK] or [VOL+] + [VOL-] keys to show accessibility menu. It is only work in RF Mode.

b) If user pressed the [DOWN] + [BACK] keys, the remote control sends [DOWN] press event and [BACK] press event.

c) If user pressed the [VOL+] + [VOL-] keys, the remote control sends [VOL+] press

event and [VOL-] press event.

3.15 - Backlight

a) Remote Control Night Mode is only work in RF Mode.
(Backlight also only work in RF Mode.)
b) Remote Night Mode uses below Service
(Service UUID : 0000ffe0-0000-1000-8000-00805f9b34fb)
(Characteristic UUID : 0000fff5-0000-1000-8000-00805f9b34fb)
c) If Remote received a write command [1 byte with value 0x01] from STB for enable Night Mode, remote works the night mode.
d) If Remote received a write command [1 byte with value 0x00] from STB for disable Night Mode, remote disable the night mode.
e) In night mode, when the user press any key, the backlight is turned on about 3 seconds.
f) If the user does not press any key for 3 seconds from the time backlight goes ON, backlight goes OFF.

3.16 – Air Mouse

a) If the user press the Cursor Key, Remote Contol works static Air Mouse Mode.
b) In Air Mouse Mode, Remote Control supports [Up], [Down], [Left], [Right] and [OK] keys.
c) If the Remote Control is IR Mode, Remote Control sends IR Code same with Normal Mode.
d) If the Remote Control is RF Mode, Remote Control sends Mouse Report Key Code.
([Up], [Down], [Left], [Right] → move about 20px Mouse Report Key Code)
e) If the Remote Control is RF Mode and Remote Control is Air Mouse Mode, the user do not press any Key for 15 seconds from last key press, Remote Control exits Air Mouse Mode and works Normal Mode.

4 - IR TV database

4.1 - TV Keys (TV Power, VOL+, VOL-, Mute, Input)

a) [Input]
If TV is not set-up by the user, this key does not sends any code.

Once TV is set-up by the user, this key sends IR TV code.

b) [Power], [VOL+], [VOL-]

If TV is not set-up by the user, these keys send STB codes only.

Once TV is set-up by the user, these keys send IR TV codes only.

4.2 – Volume Lock (VOL+, VOL-)

a) [VOL+] and [VOL-] keys work according to 4.1 TV Keys.

b) If the user want to control the STB Volume, Press and hold [VOL-] + [OK] for 4 seconds.

After 4 seconds, the RED LED blinks 3 times to confirm the remote control is set to STB Volume Mode.

c) If the user want to control the TV Volume, Press and hold [VOL+] + [OK] for 4 seconds.

After 4 seconds, the RED LED blinks 3 times to confirm the remote control is set to TV Volume Mode.

If the remote control is not programmed TV Codes, the RED LED blinks 3 times quickly.

d) Remote Control Default Status is to control the STB volume.

4.3 - TV programming modes

4.3.1 With a TOP 10 brand number

With a TOP 10 brand number

a) The following TV brands are pre-programmed on 10 digit keys (1 ~ 0):

Number	TV Brand	Number	TV Brand
1	Samsung	6	Toshiba
2	LG	7	Grundig
3	Sony	8	Sharp
4	Panasonic	9	Haier
5	TCL Thomson	0	Philips

b) Press and hold the [Fast Forward] + [OK] keys for 3 seconds.

LED stays ON while pressing the [Fast Forward] + [OK].

c) The LED indicator on the remote control turns on after blinking the LED three times to

confirm that it has entered TV programming mode.

Note : If no key press within 30 seconds, or if [Back] key is pressed, LED indicator blinks 2 times and the remote control exits the TV programming mode.

d) Press and release a digit key (1 ~ 9, 0) to select the TV brand. LED indicator turns OFF on first key press for brand selection.

e) Option 1 : **Press & Release**

Once a digit key has been pressed and released, the remote control sends the [VOL+] IR TV code.

- If the right IR code is sent then the volume icon is displayed on the TV screen.
- If the volume icon is not displayed on the TV screen, **press and release** the digit key again to send the next [VOL+] IR TV code. Repeat until the volume icon is displayed on the TV screen. The LED indicator blinks on each key press.
- Once the volume icon is displayed on the screen, press [OK] key to confirm. The LED indicator blinks twice and the remote control exits the TV programming mode.

Note : Once the last [VOL+] IR TV code, of the selected TV brand, has been sent, LED indicator blinks 3 times and the first [VOL+] IR TV code is sent again → The whole process restart from d).

f) Option 2 : **Press & Hold**

Once a digit key has been pressed and released, the remote control sends the [VOL+] IR TV code.

- If the right IR code is sent then the volume icon is displayed on the TV screen.
- If the volume icon is not displayed on the TV screen, **press and hold** the digit key until the volume icon is displayed on the TV screen. A next [VOL+] IR TV code is sent every 2 seconds and the LED indicator blinks 1 time, each time a new IR code is sent.
- Once the volume icon is displayed on the screen, press [OK] key to confirm. The LED indicator blinks twice and the remote control exits the TV programming mode.

Note : Once the last [VOL+] IR TV code, of the selected TV brand, has been sent, LED indicator blinks 3 times and the first [VOL+] IR TV code is sent again → The whole process restart from e).

4.3.2 Manual mode by entering a 4 digit code from the TV codes list

a) Locate the Brand of your television in the TV code list. Make note of the 4 digit code.

b) Press and hold the [Rewind] + [OK] keys for 3 seconds.
LED stays ON while pressing the [Rewind] + [OK].

c) The LED indicator on the remote control turns on after blinking the LED three times to confirm that it has entered TV programming mode.

d) Enter the 4 digit code you found in the TV code list by using the numeric keys. LED indicator turns OFF at each key press.

Note : If no key press within 30 seconds, or if [Back] key is pressed, LED indicator blinks 2 times and the remote control exits the TV programming mode.

e) Once the 4 digit code has been entered, the LED blinks 2 times and the remote control sends the corresponding [VOL+] IR TV code.

f) Check that the Volume icon is displayed on TV screen and press [OK] key to confirm. The LED blinks 2 times and the remote control exits the TV programming mode.

4.4 - Query mode (read the programmed TV brand code)

a) Press and hold the [Play/Pause] + [OK] keys for 3 seconds.
LED stays ON while pressing the [Play/Pause] + [OK].

b) The LED indicator on the remote control turns on after blinking the LED three times to confirm that it has entered Query mode.

Note : If no key press within 30 seconds, or if [Back] key is pressed, LED indicator blinks 2 times and the remote control exits the Query mode.

c) Press [Menu] key, LED indicator blinks to indicate the TV brand code number.
If TV0083 TV brand code number is set, 10 times blink - Pause - 10 times blink - Pause - 8 times blink - Pause - 3 times blink. It must be correctly when the LED indication blinks.

Note : The LED blinks 10 times for “0”.

4.5 – All Brands Auto Search

a) Press [Rewind] + [OK] keys for 3 seconds.
LED stays ON while pressing the [Rewind] + [OK].

b) The LED indicator on the remote control turns on after blinking the LED three times to

confirm that it has entered Query mode.

Note : If no key press within 30 seconds, or if [Back] key is pressed, LED indicator blinks 2 times and the remote control exits the Query mode.

c) If an user presses [CH+] or [CH-] key, the remote control will send [VOL+] code of the next TV code set on every key press.

d) If OK key is pressed, the changed setting value is saved and the remote control exists the set up mode. Then the remote control will blink the LED two times to let user know that remote control was exiting set-up mode.

4.6 - TV code reset

e) Press [OK] and [Input] keys for longer than 4 seconds.
LED stays ON while pressing the [OK] + [Input].

f) The remote control blinks 3 times to confirm that it is deleting the existing TV codes table.

g) When TV code reset is completed, LED indicator goes OFF.

5 - Smartset

5.1 - TV Brand Manual Setting - STB Manual Set App

a) When the Manual Set App is executed at STB side, the RED LED goes ON and STB displays the TV Brand setting step.

b) Select TV Brand or Group with [Up], [Down], [Left], [Right] and [OK] key to enter the IR setting step.

c) Press [Up], [Down] key on the IR setting mode to move the index on the screen and output the TV Volume+ code.

d) After changing the index, press [VOL+], [VOL-] key to check the IR.

e) Press [OK] key to complete IR setup and the RED LED goes OFF.

f) During the setting, press the [Back] key to return to the previous step.

g) During the setting, press the [Home] key to cancel the setting.

h) If there is no other input for 20 seconds on the Manual Set mode, the RED LED goes OFF and the Manual Set mode is finished.

5.2 - TV Brand Auto Code Scan Setting - STB Auto Code Scan App

a) When the Auto Code Scan App is executed at STB side, the RED LED goes ON and

STB displays the intro page.

b) Select [OK] key to start Auto Code Scan.

c) Check the TV Brand name on the screen and the Brand name you use are the same. If is same, Select [OK] key to start Scanning TV Code.

d) After Start Scanning TV Code, the Remote Control will send TV Volume+ code 3 times and TV Volume– code 3 times.

e) If TV Volume UI is displayed on TV, Press Yes to finish IR Code Setup.

f) If TV Volume UI is not displayed on TV, Press No to test another TV Code.

g) If All TV Codes are not displayed TV Volume UI, Try Manual Set.

6 - Environmental Tests

6.1 - Temperatures Conditions

- Operating Temperature: 0℃ ~ +45℃
- Storage Temperature: -10℃ ~ +60℃ at 95% Humidity

6.2 - Operating Tests

6.2.1 - Dry Heat Test

- Temperature : +45℃
- Test Time : 72hours
- Test Quantity : 3EA
- Functional Test : Take the measurements after for 1 hour at room temperature.
- Requested level : Remote control should satisfy electrical and mechanical performances.

6.2.2 - Cold Test

- Temperature : 0℃
- Test Time : 72hours
- Test Quantity : 3EA
- Functional Test : Take the measurements after for 1 hour at room temperature.
- Requested level : Remote control should satisfy electrical and mechanical performances.

6.3 - Non-Operating Tests

6.3.1 - Dry Heat Test

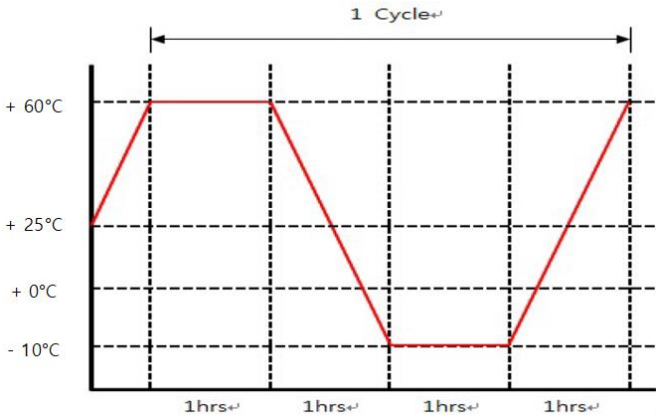
- Temperature : +60℃
- Test Time : 72hours
- Test Quantity : 3EA
- Functional Test : Take the measurements after keeping for 1 hour at room temperature.
- Requested level : Remote control should satisfy electrical and mechanical performances.

6.3.2 - Cold Test

- Temperature : -10℃
- Test Time : 72hours
- Test Quantity : 3EA
- Functional Test : Take the measurements after keeping for 1 hour at room temperature.
- Requested level : Remote control should satisfy electrical and mechanical performances.

6.3.3 - Thermal Cycling Test

- Cycle : 10 times
- Low temperature : -10℃ during 1 hour
- High temperature : +60℃ during 1 hour
- Profile



- Test quantity : 3EA
- Functional Test : Take the measurements after keeping for 1 hour at room temperature.
- Requested level : Remote control should satisfy electrical and mechanical performances.

6.3.4 - High Temperature & High Humidity Test

- Temperature : +60℃
- Humidity : 95%
- Test Time : 180 hours
- Test quantity : 3EA
- Functional Test : Take the measurements after keeping for 1 hour at room temperature.
- Requested level : Remote control should satisfy electrical and mechanical performances.

7 - Mechanical Tests

7.1 - Drop Test

- Floor Material : Wood
- Test Method : Drop the sample from a height of 76cm with batteries installed.

  Top and Bottom faces : 5time

  Up, Left, Right, Down faces : 1 time
- Test quantity : 3EA

- Required level: After drop tests, the product should work well without failure. If any part of the sample is disassembled, it should be re-assembled without problem.

7.2 - Operating Key Force

- Test requirements : Check operating key force 250g ± 100g
- Test quantity : 2 EA

7.3 - Operating Life Time Test

- Test requirements : apply static pressure on key
- Activation time : 300, 000 times
- Test quantity: 2EA
- Requested level: To confirm remote control complies to the requirement.

7.4 - Cleaning liquid Test

- Test method : Rubs using Alcohol-wet cotton cloth.
- Time : 20 rubs for top case
  100 rubs for rubber sheet
- Weight : 1Kg for top case
  230g for rubber sheet
- Test quantity : 2EA and 2 keys / EA for rubber sheet
  2EA for top case
- Required level : The printing is not faded or destroyed.

8 - Certification

Assesment of compliance of the product to the requirements relating to Electromagnetic Compatibility is based on the following standards:

- EN 62368-1:2020 + A11:2020
- ETSI EN 301 489-1 V2.2.3:2019
- ETSI EN 301 489-17 V3.2.4:2020
- ETSI EN 300 328 V2.2.2:2019
- EN 62479:2010
- FCC Part 15 subpart C

9 – Manufacturer & Importer

9.1.1 – Manufacturer

- Name: Ohsung Electronics Co., Ltd.
- Address: #181 Gongdan-dong, Gumi, Gyeongbuk Republic of Korea.

9.1.2 – Importer

- Name: Buzz TV

Federal Communication Commission

Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

❑Reorient or relocate the receiving antenna.

❑Increase the separation between the equipment and receiver.

❑Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

❑Consult the dealer or an experienced radio/TV technician for help.

Warning!

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to operate the equipment.

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communication Commissions (FCC)

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Label Location

The available label area on the device is limited because it is relatively small and has many contoured surfaces, keypads, LCD displays, charge contacts and/or other connectors.

The batteries are designed for easy removal and the label will be visible whenever the batteries are removed for charging or replacement.

The label will be readily visible at the time of purchase because the device will be marketed without the battery installed.