



Picture for reference only

User Manual

LGI Babylon RCU RC421xx

1. Products Functions:

The RC421 remote connects via Radio Frequency for Consumer Electronics(RF4CE) or Bluetooth Low Energy (BLE) to LGI set-top box, which has Nuance voice enabled. This connection is needed to control all essential features that LGI offers, including browsing content, playing videos, and conducting voice searches. RF4CE/BLE are also used for over-the-air firmware upgrades as well as the download of TV control codes.

The remote further includes infrared (IR), used for the one-time initiation of the BLE connection, as well as volume and power control of third-party non-Bluetooth TVs.

2. Product Summary

- Include 38 Keys (RC4213801) and 34 Keys (RC4213401, RC4213402 & RC4213403) remotes;
- Bi-colour (Red/White) LED Indicator;

3. BLE keycode table for STB

- 38 Keys remote:

1 TV Power TV IR		2 STB Power (0x0C, 0x30)	
	3 Home (0x0C, 0x223)		34 Profile (0x0C, 0x18D)
4 EPG (0x0C, 0x8D)	6 Up (0x0C, 0x42)	5 Live TV (0x0C, 0x89)	
7 Left (0x0C, 0x44)	8 OK (0x0C, 0x41)	9 Right (0x0C, 0x45)	
11 Back (0x0C, 0x224)	10 Down (0x0C, 0x43)	12 Context (0x01, 0x84)	
14 Vol Up TV IR Only	13 Voice (0x0C, 0x221)	16 Ch Up (0x0C, 0x9C)	
15 Vol Down TV IR Only	18 Record (0x0C, 0xB2)	17 Ch Down (0x0C, 0x9D)	
19 Rewind (0x0C, 0xB4)	20 Play/Pause (0x0C, 0xCD)	21 Fast Forward (0x0C, 0xB3)	
22 1 (0x07, 0x1E)	23 2 (0x07, 0x1F)	24 3 (0x07, 0x20)	
25 4 (0x07, 0x21)	26 5 (0x07, 0x22)	27 6 (0x07, 0x23)	
28 7 (0x07, 0x24)	29 8 (0x07, 0x25)	30 9 (0x07, 0x26)	
32 Mute TV IR Only	31 0 (0x07, 0x27)	33 Input TV IR Only	
35 Red (0x07, 0x3A)	36 Green (0x07, 0x3B)	37 Yellow (0x07, 0x3C)	38 Blue (0x07, 0x3D)

- **34 keys remotes:**

1 TV Power TV IR		2 STB Power (0x0C, 0x30)	
	3 Home (0x0C, 0x223)		34 Profile (0x0C, 0x18D)
4 EPG (0x0C, 0x8D)	6 Up (0x0C, 0x42)	5 Live TV (0x0C, 0x89)	
7 Left (0x0C, 0x44)	8 OK (0x0C, 0x41)	9 Right (0x0C, 0x45)	
11 Back (0x0C, 0x224)	10 Down (0x0C, 0x43)	12 Context (0x01, 0x84)	
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28 7 (0x07, 0x24)	29 8 (0x07, 0x25)	30 9 (0x07, 0x26)	
32 Mute TV IR Only	31 0 (0x07, 0x27)	33 Input TV IR Only	

4. BLE/RF4CE Pairing mechanism

When remote unpaired, pressing any RF key (keys exclude <Vol +>, <Vol ->, <Mute> and <Input>), remote will enter pairing mode.

- 4.1) Remote sends advertising (Both RF4CE and BLE) for pairing. LED perform pairing blink continuously;
- 4.2) If pairing is successful, LED will stop blink;
- 4.3) If pairing is failed, LED will provide a pairing fail blink.

5. Voice

The RCU supports one-way voice transferred from RCU to host.

When voice key is pressed down, voice key code is sent to STB to call out voice search engine on host.

6. OTA upgrade

The RCU software supports upgrade via OTA (Over-The-Air).

7. Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

8. Caution:

- Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Risk of explosion if batteries are replaced by an incorrect type. Only use AAA alkaline batteries.