

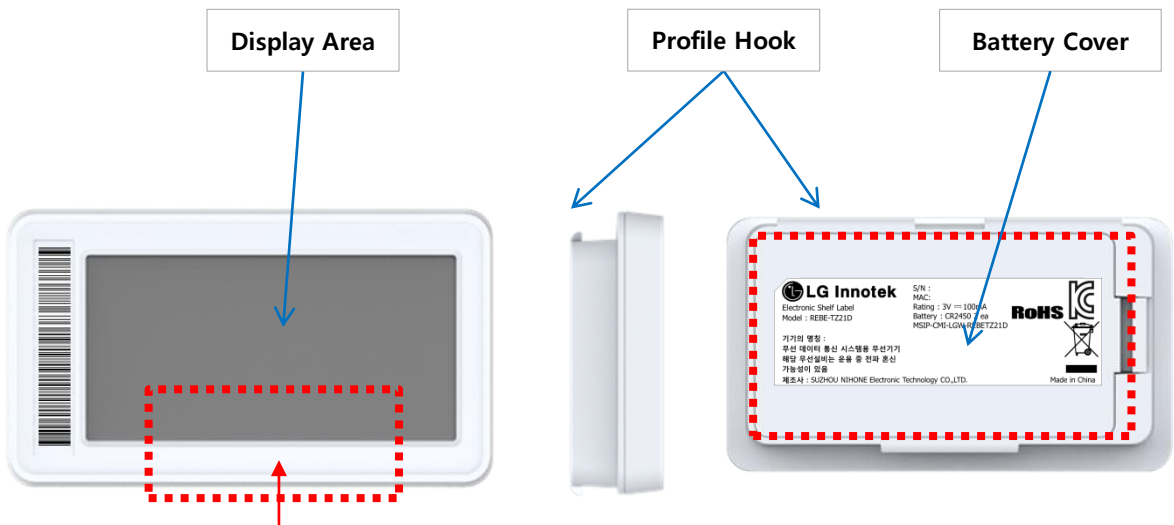
3.7" 3-color Graphic type ESL

User manual

1. Overview

대외비 2급

- Remote control device provides customer with several functions as below
 - ✓ Waking Tag up from sleep mode
 - ✓ Updating new purchase image on Tag
 - ✓ Deleting purchase image on Tag
 - ✓ Returning a Tag to be factory settings



**A remote controller or
a NFC Device contact point for communication.**

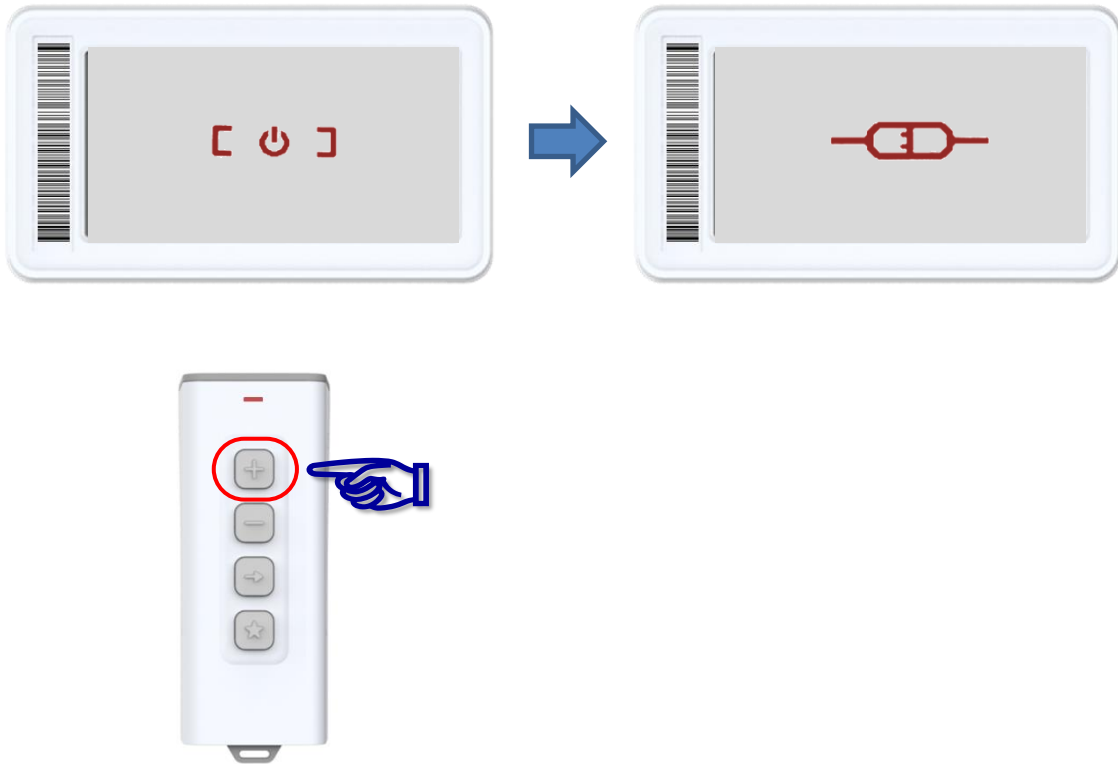
Remo-con description



- LED : One of any buttons is pushed, red led turns on.
After sending some data to a Tag, red led will turn off.
- Registration : Updating New Purchase Information on Tag
- Release : Deleting Purchase Information on Tag
- Reset : Returning a Tag to be factory settings
- Keep Alive : Waking Tag up from sleep mode

2. Updating new purchase image on Tag

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To change purchase information on Tag, perform the following steps :

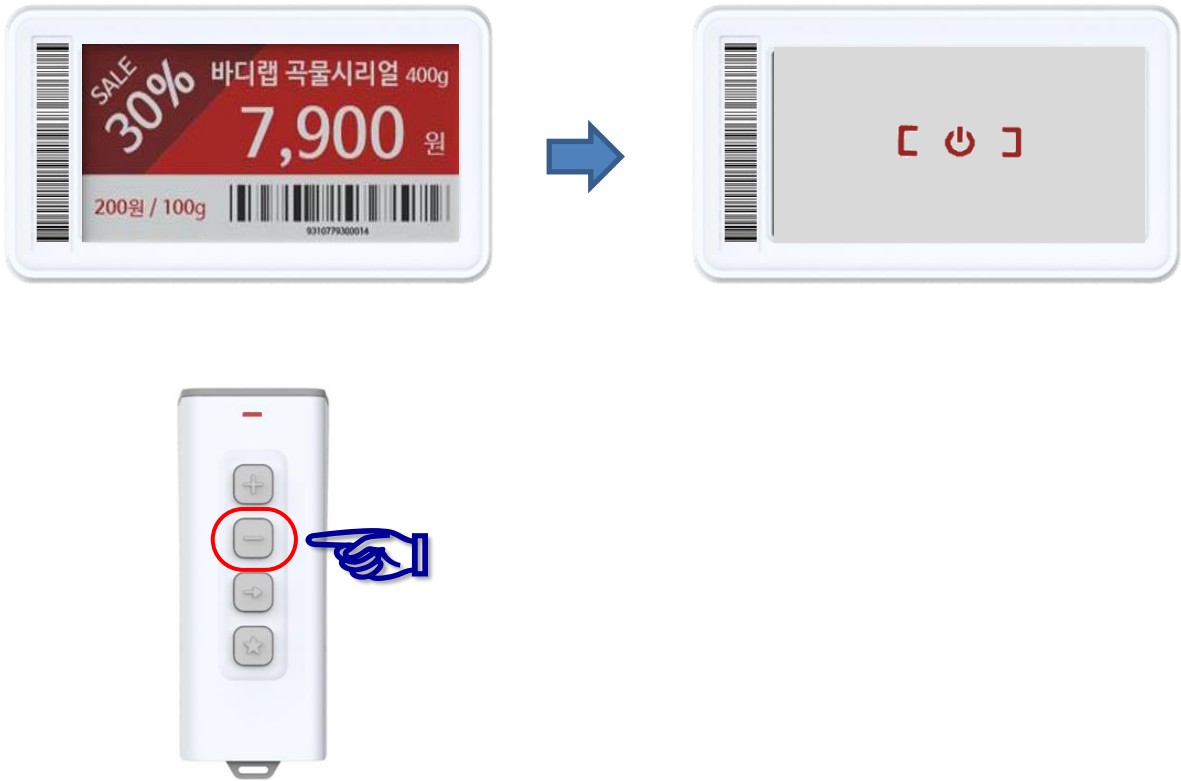
1. Put remote controller near center of Tag's display
2. Press and hold '**Registration**' button on remote controller until Red LED off (about 0.5 seconds)
3. When Tag is successfully received 'Registration' data from remote controller, Tag's display will be changed to "**Connected**" for a few minutes. That means Tag hides purchase image to read Tag's IEEE MAC address through the Barcode scanner.
4. In NMS Client, download new purchase image to the Tag in registration status
5. When image downloading is finished successfully, Tag's display will be changed to new purchase image

Case1) If image downloading is failed, Tag's display will be changed to "**Busy**".

After "**Alive Time**", this Tag will be download new purchase image again

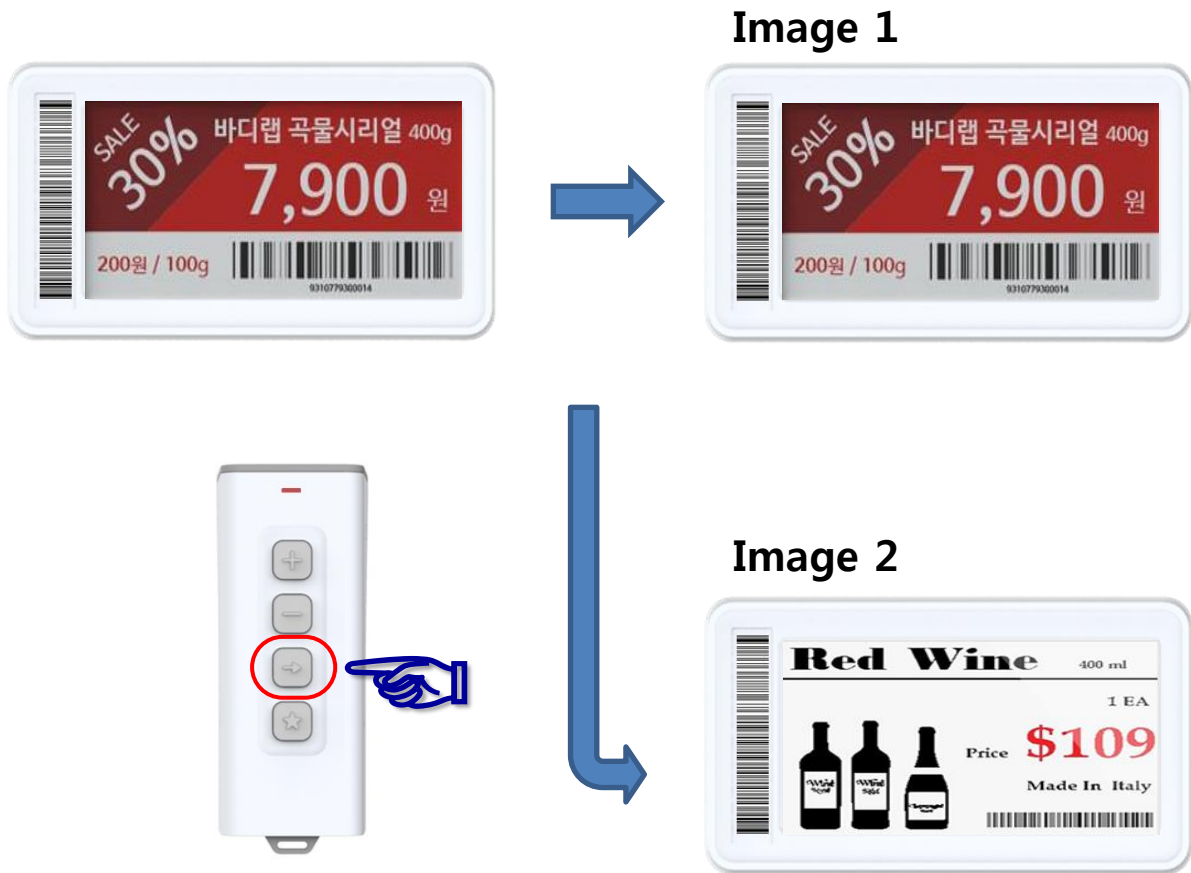
3. Deleting purchase information on Tag

대외비 2급



To release(delete) purchase information on Tag, perform the following steps :

1. Put remote controller near center of Tag display
2. Press and hold '**Release**' button until red LED off (about 0.5 seconds)
3. If Tag was received 'Reset' command from remote controller, Tag will delete purchase information and Tag's display will be changed to "**Ready**"
4. After step.3, Tag goes to deep sleep mode and doesn't communicate with gateway until receiving 'Keep Alive' or 'Registration' data from remote controller



To wake Tag up from sleep mode, perform the following steps :

1. Put remote controller near center of Tag display
2. Press and hold '**Keep Alive**' button until Red LED off (about 0.5 seconds)
3. Tag will wake up and goes to next step. It's depends on connection information with gateway
 - case1) If this Tag wasn't connected with a gateway before sleep mode, go to 4-1
 - case2) If this Tag was connected with a gateway before sleep mode, go to 4-2
- 4-1. Searching gateway and goes to the next step. it's depends on searching results
 - case1) If Tag was successfully connected, Tag's display will be changed to "**Ready**"
 - case2) If Tag wasn't connected, Tag's display(may be "Ready") will be refreshed
- 4-2. Sending 'Keep Alive' packet to gateway and Tag will go to sleep mode again
 - case1) If Tag was received response from gateway, this Tag will go to "sleep mode" until the specified time in gateway. After "sleep mode", this Tag will send "Keep Alive" Packet to gateway again.
 - case2) If Tag wasn't received response from Gateway, this Tag will retry three times. After that, Tag's display will be changed to "Disconnected". Also this Tag will perform a whole channel scan every five minutes.











5. Returning a Tag to be factory settings

대외비 2급



To make a Tag to be factory reset status, perform the following steps :

1. Put remote controller near center of Tag display
2. Press and hold '**Reset**' button until Red LED off (about 0.5 seconds)
3. If Tag was received 'Reset' command from remote controller, Tag goes back to factory settings and Tag's display will be changed to "**Ready**"
4. After step.3, Tag goes to deep sleep mode and doesn't communicate with gateway until receiving 'Keep Alive' or 'Registration' data from remote controller
case1) If Tag was received "Keep Alive" or "Registration" command from remote controller, this Tag will perform a whole channel scan.
case2) If Tag was received "Reset" or "Release" command from remote controller, Tag's display will be changed to "Ready" again

Symbol	Mode	Image
	Deep Sleep Mode	
	Connected with Gateway	
	Disconnected with Gateway	
	Battery discharge (the battery needs to be replaced)	
	Image download Failure("Busy")	

Regulation Information

Trade name:  **LG Innotek**

Manufacturer: LG Innotek Co., Ltd.

(Jangduk-dong) 26, Hanamsandan 5beon-ro, Gwangsan-gu, Gwangju, 62229, Korea

Model name: REBE-TZ37E, REBE-TZ37F

Operating frequency: 2405 MHz ~ 2480 MHz for Zigbee, 13.56 MHz for NFC (Receiving only)

Maximum transmit power: 10 dBm for Zigbee

Can be contacted via website: www.lginnotek.com

FCC Compliance Statement (for products subject to Part 15)

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 or 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.

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

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment. This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirement.

CE RF Radiation Exposure Statement

Caution: This equipment complies with European RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

EU Representative

LG Innotek Co., Ltd. Am Limespark 2 (Innovapark) 65843 Sulzbach am Taunus, Germany

적합성 평가 정보

적합성평가를 받은 자의 상호명 : 엘지이노텍 (주)

기자재 명칭 : 특정소출력 무선기기(무선데이터통신시스템용 무선기기)

모델명 : REBE-TZ37E, REBE-TZ37F

제조자 및 제조국가 : 엘지이노텍 (주) / 한국

제조연월 : 제품에 별도 표기

인증번호 : R-C-LGW-REBE-TZ37E



제품 사양

- 무선 사양 : IEEE 802.15.4 (Zigbee)
- 사용주파수 : 2402 MHz ~ 2480 MHz (Zigbee), 13.56 MHz (NFC)
- 채널수 : 16 개
- 출력 : 10 mW/MHz 이하

본 기자재는 통상이용상태에서 인체로부터 20 cm 이내 사용하지 않는 기자재이므로 SAR 비 대상기자재로 간주하여 SAR 시험하지 않음

이 기기는 가정용 (B급) 전자파 적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용 할 수 있습니다.