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Manual of KWR101810/01B & OVU104015/01

Specifications are subject to change without notice

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FCC Statement

FCC Part 15.19
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.

NOTE:
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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

No special accessory is required to enable the equipment to comply with the emission limits.

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KWR101810/01B – Remote Control

This remote control offers the following major functions:

- Free air absolute mouse pointer
- QWERTY keyboard
- 18 Normal keys to control modern Internet (configurable)
- Accelerometer data transfer to the host @ 60Hz
- Pick up – Wake up; Pickup activation of pointer

Enabled Devices in the living room including Internet Enabled TV, STB, OTT, Living room PC, etc. via 2.4GHz RF (Chipcon solution)

Insert 3 X AAA alkaline battery and wait for remote control auto pairing with USB dongle. The indicator LED on remote control will blinking during pairing with USB dongle.

OVU104015/01 – USB Dongle

1. Plug and connect the USB dongle to PC / notebook USB port.
2. The driver will be installed when connect with USB dongle.
3. The dongle will pair with remote control after insert battery into remote control.
4. The dongle is ready to use after the pairing is completed.

Note: The remote control must point to dongle for cursor movement.

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Product Features (remote control & dongle)

1.1 RF to USB

RF link support Remote Control, Mouse, and Keyboard profile:
On Receiver side, RF link interface to system via USB, follow standard USB HID profile are used:

Device	USB HID Profile
Remote Control	Consumer control HID profile
Mouse	Mouse HID profile
QWERTY KEYBOARD	Keyboard HID profile
Vendor specific	Vendor specific HID profile (tilt, distance, accelerometer and multi-touch)

The RF receiving party is included in the USB dongle which is part of the total system.

1.2 Out of Box Experience

Both of the remote control and USB receiver will have pairing on startup enabled. No initial pairing is required. See pairing methods below.

1.3 RF Pairing

The (re) pairing procedure is only needed to replace a defective item or when factor reset has been initiated.

RF pairing is by proximity pairing method, which both the REMOTE CONTROL and receiver needs to be in RF Pairing mode and bring within **2 meters** (Configurable distance) apart from the receiver.

The Receiver pairing can be enabled by three methods: Press button, Plug in USB or via software controller. Whenever a REMOTE CONTROL in Pairing Mode is within pairing proximity, both REMOTE CONTROL and Receiver will be paired.

1	Press and hold KEYBOARD keys “BACK” and “HOME” for 3 secs.
2	Bring the REMOTE CONTROL within 2 meters distance from the host and make sure no other REMOTE CONTROL is in pairing mode
3	POWER LED will start blinking fast during RF Pairing mode.
4	Enable pairing on USB dongle: 3 methods are available (can be used simultaneously) • Plug-in Pairing • Button paring • Host-command (Software) pairing There are 2 timeouts: • Virgin-pairing – When first time pairing, timeout is 30 minutes • Normal pairing – Timeout is 30 seconds All timeouts are adjustable in the configuration file. Enable Plugin and Button pairing are configurable in config file. Default all enabled. Distance pairing is available (will only pair with devices within certain range) Press pairing button on USB dongle, or (re) plug USB cable in host system.
5	Upon completion of pairing, the POWER LED will stop blinking and the REMOTE CONTROL will exit the RF Pairing mode.

1.4 RF Auto Connection

When the RF wakes up or resumes from SLEEP/STANDBY or come back within range of a power on paired Receiver, RF link will be re-connected automatically. No RF re-pairing is needed.

1.5 RF Out of Range

When the RF link is broken, remote control will go to SLEEP mode after 10 seconds (configurable time).

1.6 RF Pairing Erase

When a user needs to reset the pairing address back to the default address, a RF Pairing Erase can be done. When a RF Pairing Erase is completed, the REMOTE CONTROL will only work with an unpaired Receiver (also with default address).

1	Press and hold KEYBOARD keys “BACK” and “HOME” for 10 secs.
2	Release the key. REMOTE CONTROL will do a RF Pairing Erase.
3	Once the key is released the POWER LED is briefly off

1.7 Indicator LED

There are 2 LEDs for this REMOTE CONTROL:

1) LED under “POWER” key: “Status” LED
2) LED under “UNLOCK” key: “KEYBOARD” LED

LED	**Indication Purpose**	**Status Description**
“Status”/“KEYBOARD”	RF pairing mode	Slow blinking (~2.5 Hz)
“Status”/“KEYBOARD”	RF pairing successful	Fast blinking for 2 secs
“Status”/“KEYBOARD”	RF broken link	Slow blinking (~tbd Hz)
“Status”	Single blink to indicate RF key transmission (Remote side)	1 short blink when valid key is press on Remote side
“Status”	Battery low indication (Remote side)	1 long blink each time after a valid key is pressed on Remote side
“KEYBOARD”	Single blink to indicate RF key transmission (Keyboard side)	1 short blink when valid key is press on keyboard side
“KEYBOARD”	Battery low indication (Keyboard side)	1 long blink each time after a valid key is pressed on keyboard side

Note: *For other LED indication of other REMOTE CONTROL features the configuration can be adjusted.*