

Remote Control with QWERTY KB

PHILIPS CONFIDENTIAL

User Manual

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● Introduction

● Purpose of this document

The purpose of this document is to define and describe the UI, function and feature requirements of KWR.

● Edition history

Version	Status	Date	Author	Modification(s)
0.1	Draft	16-Jan-11	CMK	Initial version

● Definitions, acronyms and abbreviations

UI	User Interface
IR	Infra Red
IP	Internet Protocol
STB	Set Top Box
OTT	Over The Top
RAM	Random Access Memory
MCU	Micro Controller Unit
LED	Light Emitting Diode

OTS	Off The Shelf
RC	Remote Control
SRS	Software Requirements Specification
OS	Operating System
OEM	Original Equipment Manufacturer
BT	Bluetooth
RF	Radio Frequency
KWR	Remote control with QWERTY KB

• General product description

• Product perspective

Remote control with QWERTY KB works with modern Internet Enabled Devices in the living room including Internet Enabled TV, STB, OTT, Living room PC, and etc.



• Product functions overview

KWR consist of 3 main functions:

- Remote control:
- Mouse cursor control:
- QWERTY KB for text entry:

Universal IR database and IR learning is also supported, but an optional feature. 5 essential TV functions supported in universal IR or Learn IR: TV Power, TV AV input, TV Vol +, TV Vol - and TV Mute.

KWR is using 3 x AAA battery

- **Remote Control**



- **QWERTY Keyboard Control**

The QWERTY keys will be held by both hands and used in landscape orientation; the key presses must work like a standard keyboard via a wireless USB dongle.

• Using Capital Characters

The KB support capital character keys by using CAP key, there are 2 ways of activating capital characters:

- Press ONCE CAP key followed by press a character key. Example, press CAP then q will send 'Q'
- Press and Hold CAP key and press a character key. Example, press and hold CAP and q will send 'Q'

• Using Special Characters

The KB also support special character including symbols and Digits keys by using **ALT** or **ALT Gr** key. There are 2 ways of activating special character keys:

- Press ONCE **ALT** key followed by press another key. Example, press **ALT** then Q will send '1'
- Press and Hold **ALT** key and press another key. Example, press and hold **ALT** and Q will send '1'

• QWERTY Keyboard key lock

To minimise accidental press of QWERTY keys while using in RC or Mouse control, the QWERTY keys will be locked. Key presses on QWERTY will be ignored unless the KB unlock key | at the bottom left corner of QWERTY side is pressed, and hence activate the QWERTY.

QWERTY key layout:



- **Other special keyboard feature**

In QWERTY mode, limited mouse control is supported by press and hold CAP + arrow keys to move mouse cursor. CAP + ENTER for mouse left click.

- **Mouse Cursor Control**



For 4 direction navigation:

- 4 directions and Ok zone on a single piece
- Press and release on area printed Ok** or 4 direction keys will trigger 4 direction control

For Mouse control:

- Touchpad optimised for HD screen use
- Supprt Click anywhere on Touchpad for Mouse Left click **

** Mouse clickpad behaviour:

- Click anywhere while finger/ thumb on touchpad



Activate Mouse Left click

- Briefly swipe or flick left to right or right to left on the touchpad surface



Activate flick control

- Click OK area while finger touchdown on touchpad



Activate OK command

- Click U/D/L/R area while finger touchdown on touchpad



Activate Up/ Down/ Left/ Right command

● Indicator light behaviour

Location	Indication purpose	Status description
Power	All power keys will be backlit. Power key for the active mode will be blink to indicate transmission	1 short blink in red each time after a valid key is pressed
Power	Low battery warning	1 long blink in red each time after a valid key is pressed
KB unlock	Show successful RF pairing	Flashes rapidly in red for 2 seconds
KB unlock	During RF/ BT pairing mode	Flashes slowly in red during pairing mode
KB unlock	Indicate QWERTY KB activated	1 short blink in amber when KB key is pressed
KB unlock	Low battery warning	1 long blink in amber each time a KB key is pressed

● Wireless link pairing

By default the KWR will work with the targeted host first time out of the box. No special key presses or close proximity identification is needed.

● Manual RF pairing

When there is more than 1 pair of KWR working in a near distance, interference may occur, thus the remote has to pair with the host to overcome the interference. User can follow the steps as following:

- Make sure the KWR is within 6cm distance from host and no other KWR is present.
- Press and hold 'W' and 'O' keys (or 'Info' and 'Back keys') together for 5 sec.

- Pairing status and pairing result will be shown by the indicator light on the 'UNLOCK' key on the QWERTY

• **Approbation Regulations**

This device complies with Part 15 of the FCC Rules and IC RSS-GEN 7.1.5

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

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC 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.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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