

Manual Book

Model Number	Alternate Model Number	Serial Number (12NC)	Description
KWR144801/01	XRT700	3139 228 10141	VIZIO VIA PLUS (TV)
KWR144802/01	XRB700	3139 228 10751	VIZIO VIA PLUS (BluRay)
KWR144803/01	XRA700	3139 228 10761	VIZIO VIA PLUS (Adapter)

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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1. Introduction

1.1 Purpose

This document of KWR144801/01, KWR144802/01 & KWR144803/01 is to brief the basic function of the application domain.

1.2 FCC ID Location



Picture 1

1.3 Battery Installation before get started

- Pull out the battery compartment (refer Picture 1) and insert 2 pieces of AA batteries with correct polarity (+ or -) as Picture 2.
- Insert the battery compartment into the remote control as Picture 3.



Picture 2



Picture 3

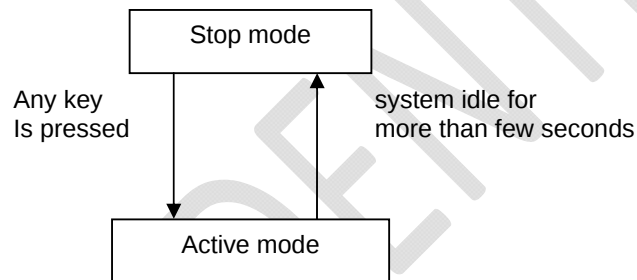
2. General product description

2.1 Product functions

These products are making for Vizio BlueTooth internet ETV (KWR144801/01), Digital Media Adaptor (KWR144803/01) & Blue-ray player (KWR144802/01). It is a combine function of

- Remote control
- Touch pad mouse
- Qwerty Keyboard
- IR DB slave module
- Upgradable DB for end user via Bluetooth, search by model number
- Accelerometer for gaming, report raw data to host

2.2 Description of processes



This remote will contain below functions:

Inputs:

- key scan info
- data from Bluetooth interface

Outputs:

- IR signal is generated to target device via IR LED or
- RF signal is generated to target device via Bluetooth module.

When the keyboard facing to the user side, pressing any keyboard button will trigger the product send key event to the target device.

2.3 Description of system

The features of this KWR144801/01, KWR144802/01 & KWR144803/01 as follows:

- Default IR mode
- Normal operation
- RF pairing
- Delete pairing information
- ID setup for a device
- Stuck key Timeout
- Simultaneous keypress (multiple keypress)
- Standby mode

2.3.1 Default Vizio IR mode

This is the default mode when user takes the remote control out of box, it will able to transmit IR code for IR receiver without any setup after insert battery.

2.3.2 Normal operation mode

This is the normal operation when target device is turns on; remote is paired with target device, micro-controller is in active mode, keyboard/remote function as RF (2.4GHz) HID device.

2.3.3 RF (2.4GHz) pairing

The RF (2.4GHz) device needs to be paired before enable its function. This remote control equipped with a 2.4GHz RF module. It must pair with the target device before use it as a RF (2.4GHz) remote control.

2.3.4 Delete pairing information

After remote control paired with target device, if user want go back to default IR remote mode, press and hold buttons <Q> + <P> + <Space> on keyboard for 5 seconds, then release all of them will erase the pairing information.

2.3.5 Code set ID setup for a device

This function is heavily depends on target device and many mutual active between target device, remote control & user.

There is a load list contain devices, brand names and code set IDs table stored in target device. This load list is for setup IR database code set ID for an IR device.

For example user has a Philips DVD player. User intends to use this remote control to control this DVD player. Setup the code set ID, DVD device should be selected. Then select brand name Philips. Under the brand name Philips, there may have multiple code sets. Each code set represents a physical remote control. After make the selection, the remote control will set a control code set.

Target device application can assign default code set for each device, or leave it blank.

2.3.6 Stuck Key time out function

The remote control will shut down after 25-30 seconds when the last key transition to consume minimal power. After all keys are released, the remote resumes normal operation.

2.3.7 Simultaneous Keypress

If more than one key press is detected, the remote control will stop sending signal.

2.3.8 Standby mode

The standby mode of the remote control shall be entered as soon as possible after the pressed key is released.