

Manual of OVU760001/01

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. GENERIC FUNCTIONALITY

1.1 General functionality

This product is a Radio Frequency (RF) to Infrared (IR) dongle powered by USB. It receives RF signals and translates them to IR signal and fires it through an IR emitting diode. The purpose is to allow IR receivers to be controlled by RF remotes. This product is not meant to communicate through the USB.

1.2 Application view

The RF dongle will first pair with a RF remote before it can be used. After pairing, the RF dongle will only decode RF signals from the paired remote. Other RF remotes' signals will be discarded.

After decoding the RF signal, an IR generation process will be initiated.

2. RADIO FREQUENCY (RF) FUNCTIONALITY

2.1 Pairing and Unpairing

The dongle is a target device in the pairing procedure. This means that the dongle can only receive requests for pairing and unpairing. The initiator of pairing normally comes from the controller device which is usually the remote controls.

For the OVU760001/01 dongle, there is no button so pairing is initiated when the dongle is powered up. The pairing period will last 15 seconds. During this pairing period, when the dongle is successfully paired with the remote, a pairing link is stored in the dongle pairing table. A total of 10 devices can be paired. When there are 10 entries in the table, the receiver will not pair with any more new devices. Existing devices in the table need to be unpaired before new devices can be paired. Please note that after pairing, when there are 10 entries in the pairing table, the RED Colour indicator LED will blink 4 times. This is to show that the table is full.

To unpair a device, the remote control will have to send a unpair message to the dongle. When unpair is done, the Red Colour Indicator LED will blink twice. Please note that the dongle cannot initiate the unpair process by itself.

One point to note is that the remotes can unpair itself without the presence of the dongle. This can lead to the dongle having a pairing entry with a remote that has deleted its entry. To remove the entry in the dongle, use the same remote to pair and unpair with the dongle again. Look out for the LED to blink twice, indicating a successful unpair.

3. PRODUCT OVERVIEW



Picture for illustration only