

General Description Of Product: RC1974102/01B

The Remote Control RC1974102/01B is a multimedia remote use to control Windows Vista Media Center PC and it has built in wireless speaker & microphone, floating mouse for browsing & navigation, and gesture control for game applications.

The wireless speaker & microphone, gesture control and floating mouse feature of this remote utilise the standard Headset/Handsfree profile and HID profile of Bluetooth 2.0, and it works in pair with a Bluetooth® (BT) host controller interface (HCI) device on the PC.

Battery powered (3 x AAA alkaline batteries),

Operational Voltage: 3.4 ~ 4.8V (typical: 4.5V)

Operating current: 180mA (max), 80mA (average)

Definitions, acronyms and abbreviations

MCE	Windows Media Center
UI	User Interface
IR	Infra Red
OTP	One Time Programmable
ROM	Read Only Memory
EEPROM	Electrical Erasable Programmable ROM
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
3D	Gesture motions translate to Gamepad HID profile (X,Y.... channel)
Motion	Gesture motions translate to Joystick HID profile (IaX, IaY...channel)

Function 1 : Windows Media Center control

RC197xx operates Windows Media Center as a standard Media Center remote control through BT with Vista HID commands.

Function 2 : Wireless handset

RC197xx has built in speaker and microphone.

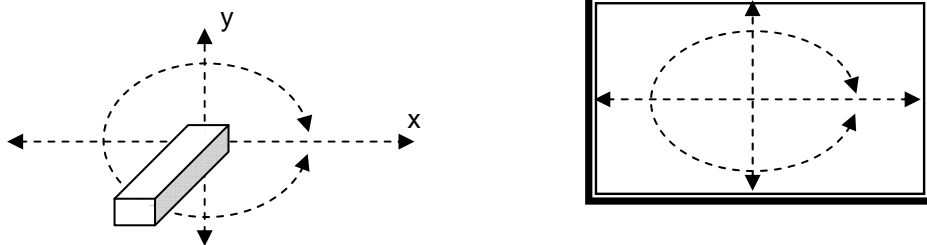
Function 3: Game control input

Provide X-Y-Z raw data input to special game application in the PC for interpretation into gesture control for gaming use. The hand-arm movements (while holding the remote control) will be captured and represented by 3 axes (X, Y, Z) data by on-board 3-axis accelerometer.

In the remote control there is also a motor that vibrates comment according to feedback from the game.

Function 4: Floating mouse cursor control

Floating mouse cursor control is the control of mouse cursor by means of holding and moving RC197xx in the air. The relative movement of panning and lifting (or, yaw and pitch) will control the mouse cursor to move in the same relative direction on the PC screen.



Bluetooth 2.0 General Specification (Basic)

Frequency Range :	2.402Ghz ~ 2.48Ghz
Modulation Mode:	FSK
Number of Channel:	79 channel
Channel width	1Mhz

****Note :** We do not use any +EDR , only basic Bluetooth2.0 , hence do not have advance modulation scheme such as QPSK ...etc