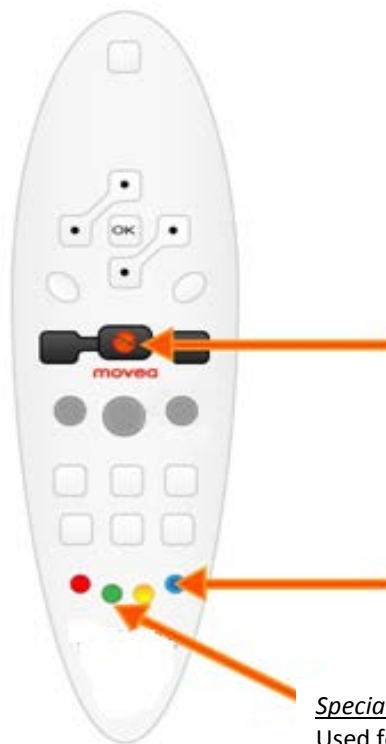


MoveaTV™ PC Evaluation Kit Quick Start Guide

PACKAGE CONTENT

- 1 Remote
- 1 USB Dongle
- 3 AAA Batteries
- 1 USB Stick Containing MoveaTV Application Installer



Motion button and left and right click

Double click activates mouse cursor motion while operating in the air. Single click activates special actions when being pressed and released

Pairing button

After activating pairing on the dongle, press this button (one second then release)

Special button

Used for special key sequences

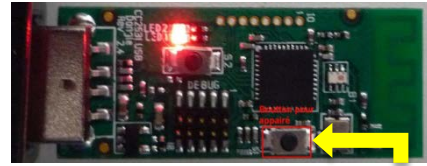
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GETTING STARTED

- 1- Place 3 AAA batteries in the back of the remote
- 2- Insert USB dongle into available USB port
- 3- Pair remote with dongle :

- **Regular dongle:**

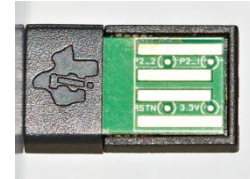
- Press the connect button on the remote,
- once the yellow LED is blinking,
- press the blue button on remote – Dongle and remote are paired once the yellow light stays on.



Press button to pair the remote

- **Nano dongle:**

- Plug the nano dongle in an available USB port and wait about 5 seconds for the dongle to be detected by the computer, then press the blue button on your remote.
- The cursor should move on the screen to the right, then left, then right again and finally left, the remote and dongle are paired.



- 4- Install MoveaTV Evaluation kit by clicking on the Setup icon on your desktop. Accept all software installation, including Trackmania.

MoveaTV application should open automatically after installation, if not, double click on the application icon on your desktop.

Activate Embedded In-Air Pointing Mode

When the embedded in-air pointing is activated, gesture recognition is not available; all the data fusion is processed only on the remote and does not leverage the host MoveaTV platform.

Double click on the motion button to activate the embedded pointing for in-air control to move the cursor on screen.

When first connecting, the remote will be in pointing mode. Once the MoveaTV application is launched, please switch to raw data mode.

Activate Raw Data Mode

When entering the raw data mode, sensor signals processing is not embedded on the remote but enabled on the host device through the MoveaTV application. This application leverages Movea's SmartMotion Server capabilities enabling raw data analysis, in-air pointing and advanced gesture recognition. Raw signals will be sent from the remote to the MoveaTV application, this mode is therefore used for all applications within the MoveaTV application.

1. Launch MoveaTV application by double clicking on the icon
Press the green button + "9" to enable the raw data mode
2. Ensure motion trigger is locked on by double clicking the Motion button if necessary
3. To try gesture recognition, open the Tutorial within press the motion button, make the intended gesture, and release the button

MOVEATV EVALUATION KIT INTERFACE

HOME SCREEN

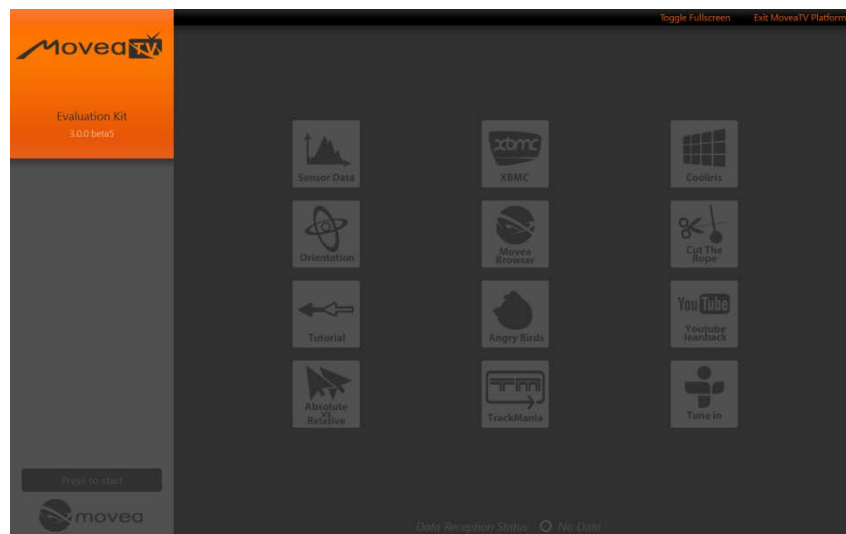
When you start the MoveaTV application, you will get the following home screen. Select an application and then press “START” to launch it or double click on it.

Note that the “data reception status” at the bottom should display “Receiving” in green to use our demo. This status is green if the remote is actually sending raw signals to the MoveaTV Platform (e.g. it will be greyed if your remote is in embedded mode).

The “settings” window (available on the top of the screen) allows you to select the device as well as the pointing mode: *Relative or Absolute*. These settings will affect every application (if you select the absolute pointing mode here, you’ll keep absolute pointing for all other application you’ll launch). However, if you close the Evaluation Kit and restart it, the settings will be reset. To make them permanent, you can edit the configuration file:

C:\Movea\MoveaTV-EvaluationKit\<VERSION>\bin\resources\config.xml

When in Absolute pointing mode, use the Motion trigger on the remote to put the cursor back to the center of the screen.



The MoveaTV Platform Home Screen

GESTURE	Action
UP	Select item above
DOWN	Select item below
LEFT	Select item on the left
RIGHT	Select item on the right
CHECK	Start the selected app
BACK	
CLOSE	
SHAKE	
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	Select item on left/right
PITCH	Select item above/below
ROLL	Set volume level

SENSOR DATA

This application shows raw signals sent by your remote from 3 axis accelerometers, 3 axis gyroscopes and 3 axis magnetometer (if available) forwarded by the Smart Motion Server.

Position and move the remote to see the graphs representing the sensors data evolve as your act



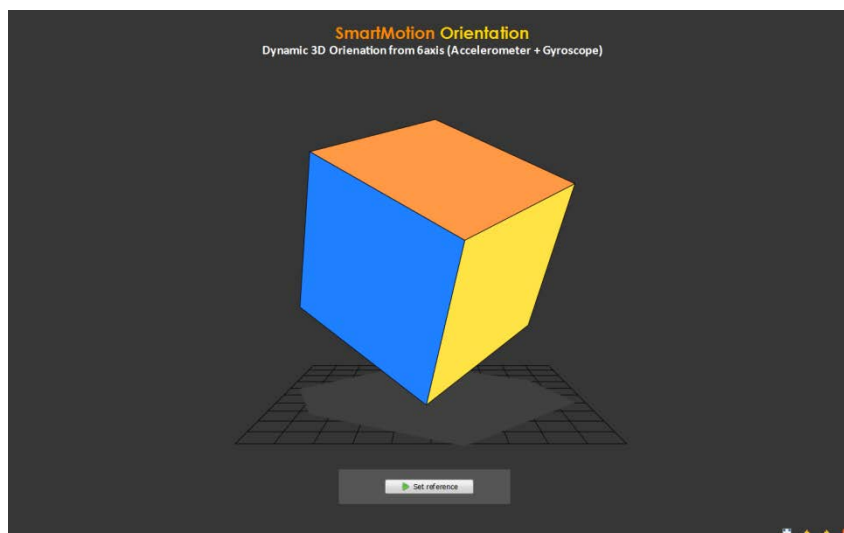
Screenshot of the Sensor Data demo

GESTURE	Action
UP	
DOWN	
LEFT	
RIGHT	
CHECK	
BACK	
CLOSE	Close app and go back to Homescreen
SHAKE	
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	
PITCH	
ROLL	Set volume level

ORIENTATION

In this demo, a 3D cube will move accordingly to the remote movement.



Screenshot of the Orientation demo

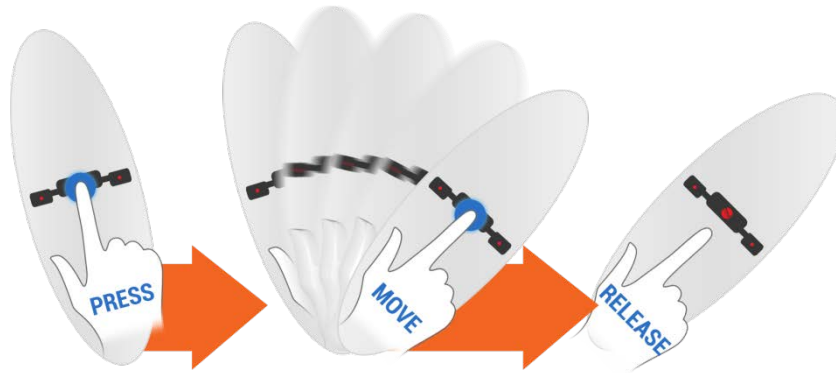
GESTURE	Action
UP	
DOWN	
LEFT	
RIGHT	
CHECK	
BACK	
CLOSE	Close app and go back to Homescreen
SHAKE	
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	
PITCH	
ROLL	Set volume level

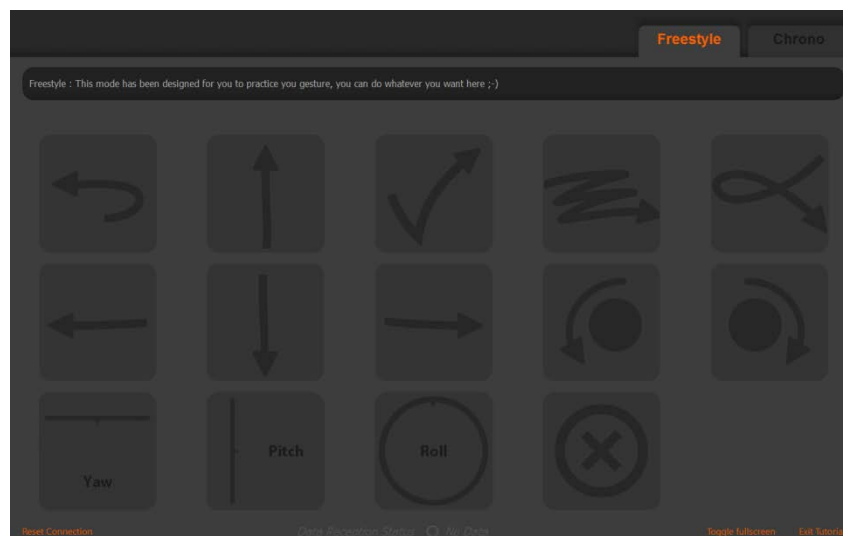
TUTORIAL

The tutorial is an application where all gestures available are displayed. In the “Freestyle” mode, the gesture you perform will be highlighted whereas in the “Chrono” mode, you will be asked to perform specific gesture/rotations.

To play with gestures: press and hold the motion button, flick your wrist to the right and release the button at the end of your gesture.



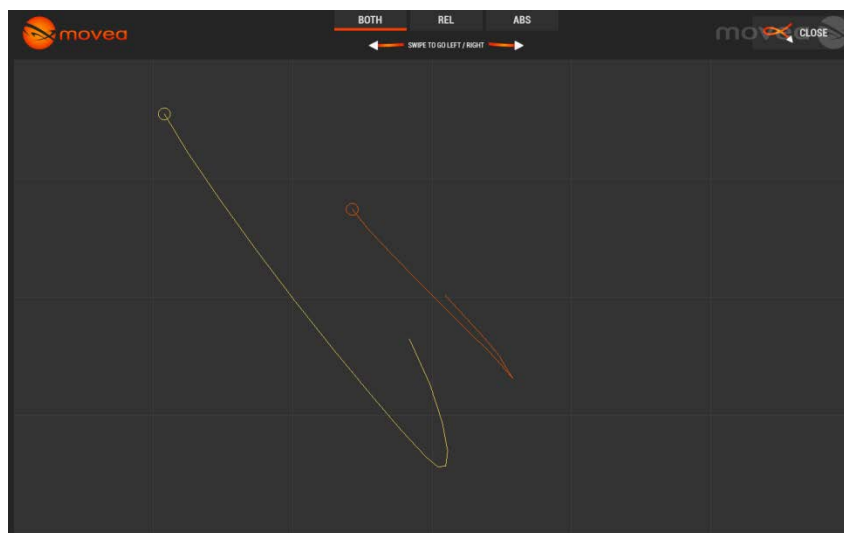
To test the user intent anticipation, press and hold the motion button and move slowly into a direction: up/down, left/right, roll left/right as you slowly move your hand, the levels should move accordingly to your movement in terms of speed and amplitude.



Screenshot of the Tutorial demo

ABSOLUTE VS RELATIVE

This application will display traces of both absolute (in orange) and relative (in yellow) pointing.



Screenshot of Absolute vs Relative Demo

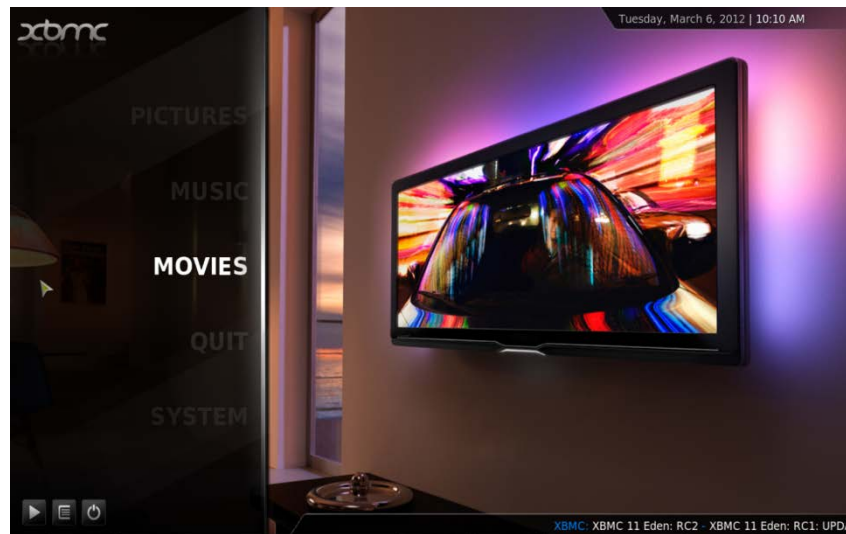
GESTURE	Action
UP	
DOWN	
LEFT	Switch display mode (BOTH, only RELATIVE, only ABSOLUTE)
RIGHT	Switch display mode (BOTH, only RELATIVE, only ABSOLUTE)
CHECK	
BACK	
CLOSE	Close app and go back to Homescreen
SHAKE	Hide / Show traces
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	
PITCH	
ROLL	Set volume level

XBMC

XBMC is a media player and entertainment hub for digital media, allowing you to navigate through movies, music and pictures with gesture based commands.

On this demo, the cursor is disabled and the navigation is gesture based only.



Screenshot of XBMC Demo

GESTURE	Action
UP	Go up
DOWN	Go down
LEFT	Go left
RIGHT	Go right
CHECK	Select item
BACK	Go back
CLOSE	Stop music / movie / slideshow
SHAKE	Pause / Play
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	Browse item horizontally
PITCH	Browse item vertically
ROLL	Set volume level

MOVEA BROWSER

The Movea Browser demo is a custom web browser where you can easily access to various website such as newspaper, social website or video sharing.



Screenshot of Movea Browser

GESTURE	Action
UP	Page up
DOWN	Page down
LEFT	Previous page
RIGHT	Next page
CHECK	Select (in search fields for example)
BACK	Go to homepage
CLOSE	Close app and go back to Homescreen
SHAKE	Toggle soft keyboard
ROLL LEFT	Zoom out
ROLL RIGHT	Zoom in

ROTATIONS	Action
YAW	Scroll horizontally
PITCH	Scroll vertically
ROLL	Set volume level

ANGRY BIRDS

Play *Angry Birds* driven by the remote control.

To pull the rubber band holding the bird and adjust angle, press and hold the click button, release when in position to throw the bird.



Screenshot of Movea Browser

GESTURE	Action
UP	
DOWN	
LEFT	Go left
RIGHT	Go right
CHECK	
BACK	Go back
CLOSE	Close app and go back to Homescreen
SHAKE	
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	
PITCH	Control camera view
ROLL	Set volume level

TRACKMANIA

TrackMania Nations Forever is the free version of TrackMania where you can play on the Stadium environment. When you start the game, in order to navigate through the menu, the cursor is enabled. When asked to connect, choose “continue offline” to skip the registering process. Once the game is started, you can switch to Joystick mode with a SHAKE gesture. Another SHAKE will bring back the cursor and disable the joystick. In joystick mode, hold your remote as a wheel with colored buttons on your right hand and button on the top. Use “0” on your remote to accelerate, “FAV” to brake, “VOD” to pause the game and “TV” to reset your car position.



How to use the remote in joystick mode



Screenshot of TrackMania

GESTURE	Action
UP	Up item
DOWN	Down item
LEFT	Left item
RIGHT	Right item
CHECK	Select
BACK	Go back
CLOSE	Close app and go back to Homescreen
SHAKE	Switch between Pointing and Joystick mode
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

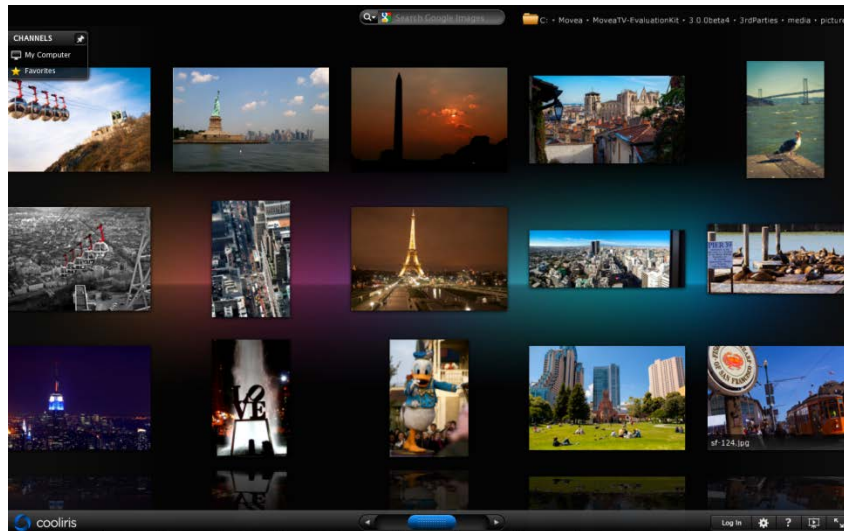
ROTATIONS	Action
YAW	
PITCH	
ROLL	Set volume level

COOLIRIS

Cooliris is a Google Chrome plugin that provides interactive full-screen slideshows. You will be able to navigate the interface with the gestures.

At the first start, you'll have to select a directory with some pictures. You can use a personal directory or the media files include with this Evaluation Kit (should be in `C:\Movea\MoveaTV-EvaluationKit\<VERSION>\3rdParties\media\pictures`).

Warning: This demo is based on a portable version of Google Chrome included with the Evaluation Kit software. We recommend closing all Google Chrome instance before running this demo. If you don't, when closing the demo, we won't have the information that the demo is stopped and you'll have to "manually" stop it by pressing "Press to stop" on the homescreen.



Screenshot of Cooliris plugin for Google Chrome

GESTURE	Action
UP	Select picture above
DOWN	Select picture below
LEFT	Select picture on the left
RIGHT	Select picture on the right
CHECK	Display current picture in fullscreen
BACK	Go back
CLOSE	Close app and go back to Homescreen
SHAKE	Hide / Show interface
ROLL LEFT	Zoom out (in the wall only)
ROLL RIGHT	Zoom in (in the wall only)

ROTATIONS	Action
YAW	Browse the wall
PITCH	Zoom (in the wall only)
ROLL	Set volume level

CUT THE ROPE

Play Cut the Rope! A mysterious package has arrived, and the little monster inside has only one request... CANDY!

If the game is not displayed when the page open up, refresh it by doing a SHAKE gesture.

Warning: This demo is based on a portable version of Google Chrome included with the Evaluation Kit software. We recommend closing all Google Chrome instance before running this demo. If you don't, when closing the demo, we won't have the information that the demo is stopped and you'll have to "manually" stop it by pressing "Press to stop" on the homescreen.



Screenshot of Cut the Rope

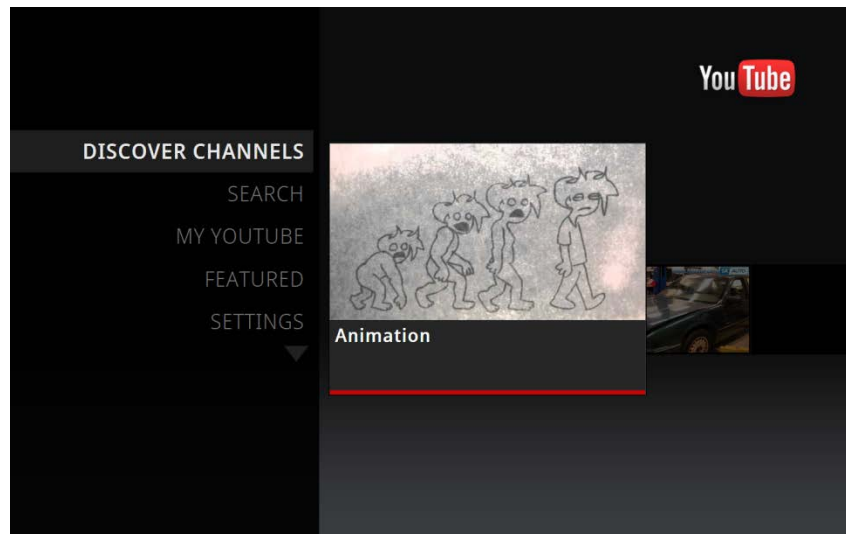
GESTURE	Action
UP	
DOWN	
LEFT	
RIGHT	
CHECK	
BACK	
CLOSE	Close app and go back to Homescreen
SHAKE	Refresh page
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	
PITCH	
ROLL	Set volume level

YOUTUBE LEANBACK

YouTube Leanback is a new way to watch YouTube videos on Google TV or any big screen. With simple controls and full screen viewing, Leanback makes watching videos on YouTube as effortless as watching TV.

Warning: This demo is based on a portable version of Google Chrome included with the Evaluation Kit software. We recommend closing all Google Chrome instance before running this demo. If you don't, when closing the demo, we won't have the information that the demo is stopped and you'll have to "manually" stop it by pressing "Press to stop" on the homescreen.



Screenshot of Youtube Leanback

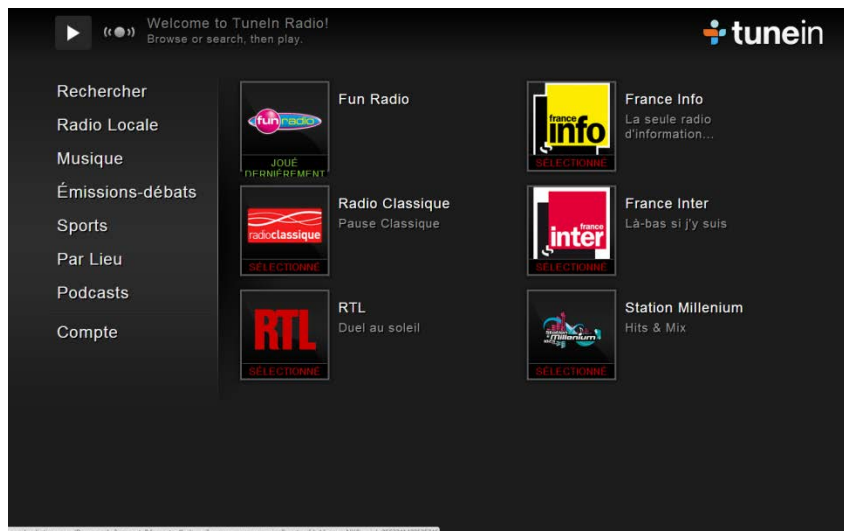
GESTURE	Action
UP	Go up
DOWN	Go down
LEFT	Go left
RIGHT	Go right
CHECK	Select
BACK	Go back
CLOSE	Close app and go back to Homescreen
SHAKE	Play / Pause
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	Select item on left/right
PITCH	Select item above/below
ROLL	Set volume level

TUNEIN

Listen to online radio; find streaming music radio and streaming talk radio with TuneIn.

Warning: This demo is based on a portable version of Google Chrome included with the Evaluation Kit software. We recommend closing all Google Chrome instance before running this demo. If you don't, when closing the demo, we won't have the information that the demo is stopped and you'll have to "manually" stop it by pressing "Press to stop" on the homescreen.



Screenshot of TuneIn

GESTURE	Action
UP	Go up
DOWN	Go down
LEFT	Go left
RIGHT	Go right
CHECK	Select
BACK	Go back
CLOSE	Close app and go back to Homescreen
SHAKE	
ROLL LEFT	Mute / Unmute
ROLL RIGHT	Mute / Unmute

ROTATIONS	Action
YAW	Select item on left/right
PITCH	Select item above/below
ROLL	Set volume level

TROUBLESHOOT

- Remote doesn't send any signal – we do not see anything happening when pressing the trigger and gesture button
 - 1- Check battery level or change batteries
 - 2- Re – pair dongle and remote with step 2
 - 3- Press volume buttons to see if it raises the volume, if yes, then press the sequence key to go into the desired mode. If not, recheck step 1 and 2.
- Stuck keys: press volume button to see if it raises the volume
- Calibration: remote are precalibrated, but it can happen in pointing mode, that the gyro drift, put on the table key down until you see the pointing stop moving – then to secure the current calibration press green button then 1.
- If it is the first time that you use your remote, it is possible to observe a drift on your gyro. If so, just put the remote on a table key down and wait until you see the pointing stop moving.
- If the MoveaTV platform doesn't stop correctly, it can happen that some programs don't shut down correctly. If it is the case, you will observe some error when you start the MoveaTV platform. To fix those errors, you can manually terminate all the instance of the sms, MoveLab2, GoogleChrome, XBMC, sma or smsselector that could appear on the task manager.

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