



# Opera TV Emulator

The Opera TV Emulator enables development of HTML5 and CE-HTML content, meant for deployment on a variety of different devices, such as connected TVs, Blu-ray players and set-top boxes, directly on a PC platform. By emulating the environment of the target device, the Opera TV Emulator makes it possible for developers to develop and test content for televisions on their own PCs, without physical access to the STB or television.

## The challenge

Demand for applications and webpages designed for the television screen is reaching new heights as users' expectations for online content on their television screens rapidly increases. Leading OEMs have already chosen the Opera™ browser to power the Internet on their connected TVs. Developers can take advantage of this and bring their applications to the TV market faster by using the Opera TV Emulator to develop content that complies with common industry standards and specifications, which can be deployed across Opera Devices™ SDK implementations and ultimately on any device that runs the Opera TV Store.

## Why the Opera TV Emulator?

The Opera TV Emulator makes content creation and distribution for TV much easier. Content developers gain an effective and direct way to develop, test and debug portals, applications and webpages for TVs.

The Opera TV Emulator is also valuable for Opera partners specifically creating content for devices using the Opera Devices SDK.

Additionally, OEMs and operators can choose and use the Opera TV Emulator as a “reference implementation” to ensure that the Opera browser works as they expect.

## Content providers

Using HTML5, developers can create cross-platform applications that work out-of-the-box on any device running the Opera TV Store. Access to the Opera TV Emulator and Opera's debugging toolkit, Opera Dragonfly, enables developers to get reliable, fine-tuned applications to the TV market more quickly. The Opera TV Emulator allows content providers to test their content services for a variety of devices without having access to each physical device.

## OEMs

The Opera TV Emulator allows OEMs to verify their own integrations with the Opera SDK, as well as being able to test and debug TV content from sub-contractors and partners.

# Features

## Virtual remote control

The Opera TV Emulator comes with a virtual remote control application that runs in the Opera desktop browser and emulates a standard TV remote control. This can be used to test navigation and interaction in the webpage or application under development.

## Performance testing

Performance capabilities and speed of use vary from device to device. Using the Opera TV Emulator, content developers can test the performance of their TV applications on different devices by choosing from four different speed settings: low-end, medium (current generation of hardware), high-end (next year's hardware) and no-limit (bound by your PC speed).

## Not just for Linux users

Developers using other operating systems than Linux can use the Opera TV Emulator with a VirtualPC image of Linux running the Opera Devices SDK with a DirectFB launcher application to start web applications quickly and debug them using Opera Dragonfly, on any computer platform that supports virtualization (Mac, Windows).

## What the Opera TV Emulator offers:

- Support for all features of the Opera Devices SDK
- HTML/CSS/JavaScript/DOM, etc.
- SVG
- HTML5 <video>, <audio>, <canvas>
- CE-HTML video element
- Simulated limited RAM availability
- Ability to set screen-size tailored to target device
- Easy to test any webpage (insert the URL in the address bar)
- Debugging with Opera Dragonfly

## What the Opera TV Emulator contains:

- Documentation on how to use and configure the emulator
- Descriptions of how the Opera Devices SDK works on target devices
- Overview of issues that may vary between platforms and devices and how to cope with these in content development
- TV application guidelines on how to develop and optimize content for TVs

## Benefits

### Content providers

- Enjoy faster time-to-market with reliable, fine-tuned applications.
- Troubleshoot problems, such as "out of memory" and performance issues.
- Develop cross-platform applications that work out-of-the-box on any device running the Opera TV Store.
- Verify applications in a simpler and more controlled environment.
- Start testing and debugging services without access to physical devices.
- Develop content services targeting all Opera-powered devices.

### OEMs

- Verify Opera integration using the Opera TV Emulator as a reference.
- Test and debug content from sub-contractors.

### Silicon vendors

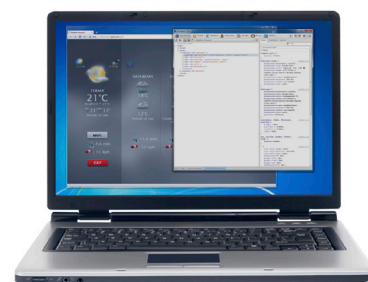
- Verify Opera integration with the Opera TV Emulator as a reference.

### Middleware/UI vendors

- Verify Opera integration.
- Test and debug content in a controlled environment.

## The Opera TV Emulator can be downloaded from

<http://dev.opera.com/tv/>



Content development for TVs

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