



# 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 PC, without physical access to the STB or television.

## The challenge

Demand for applications and web pages 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 Opera 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 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 web pages for TVs.

The Opera TV Emulator is also valuable for Opera partners specifically creating content for devices using the Opera 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 tool, Opera Dragonfly, enables developers to get reliable, fine-tuned applications faster to the TV market. 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 integration with the Opera SDK, in addition to being able to test and debug TV content from sub-contractors.

# Features

## Virtual remote control

Using smartphones or a desktop application to control TV applications run from the Opera TV Emulator, developers will be able to gain a better understanding of how users will be able to control their TV applications.

## 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 application 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 (as it is today).

## Not just limited to Linux users

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

## What the 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
- Simulate limited RAM availability
- Set screen-size tailored to target device
- Easy to test any web page (insert the URL in the address bar)
- Debug with Opera Dragonfly

## What the TV Emulator contains:

- Documentation on how to use and configure the TV Emulator
- Descriptions of how the Opera SDK works on target
- 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 reference.
- Test and debug content from sub-contractors.

### Silicon vendors

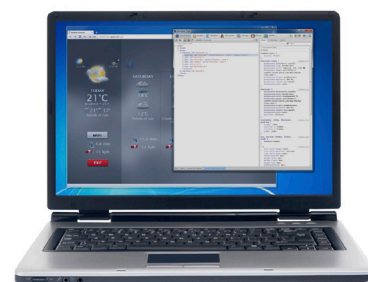
- Verify Opera integration with the Opera TV Emulator as reference.

### Middleware/UI vendors

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

## The Opera TV Emulator can be downloaded from

<http://opera.com/tv/> and can be installed on a standard x86 Linux PC.



Content development for TVs

## Business/Product inquiries

Phone: +47 2369 2400 (GMT +1)  
Email: sales11@opera.com

## Press inquiries

Phone: +47 2369 3242 (GMT +1)  
Email: press11@opera.com

Learn more at  
[www.opera.com](http://www.opera.com)