Sraf® HTML5 Browser Open Browser Edition

Unwind your brain, explore wonderful Internet world

Overview

As a trend, Television is becoming more powerful and smarter. In the past, TV can only be used for watching TV programs, which are considered as broadcast linear services. Nowadays, together with the fast growing Internet, TV featured with network capability is definitely the entertainment center at HOME. With this change, families are able to enjoy their favorite contents from the colorful internet world in living rooms.

Different from PC, tablet and mobile phone, which we have been familiar with since long, TV with its large screen can bring incomparable watching experience to users. People have the strong needs for reading articles, listening to music and watching videos on World Wide Web, which have been limited to traditional appliances before. But now, the preferable choice is changing to connected TV rapidly. To deliver the superior experience to users, web browser is the key.

SERAPHIC, the leading digital TV browser technology provider, is the pioneer to bring the most advanced browser technology onto embedded platform.

Sraf Open Browser has been commercially deployed for dozens of customer projects with the world famous TV/STB manufacturers, e.g. Sharp, Hisense, TCL, Arcelik, Skyworth, Changhong, Haier and etc. Smart TV products with Sraf Open Browser are already shipped for millions in over 100 countries and regions. As the market-proven and wide-deployed products, Sraf Open Browser is now evolving to the 2nd generation which brings brand-new user experience to users. It is for sure the best choice for manufacturers to develop smart TV/STB devices!
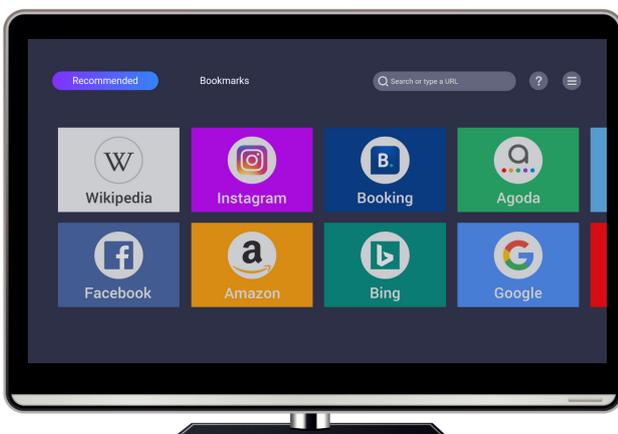

Figure 1.   Home page

Figure 2.   Zoom in/out

Key features

Brand-new User Experience
Tailored for family large screen
Simple but fashionable UI
Easy and smooth control with fewer keys of remote controller

Web browsing
Page Back, Page Forward, Page Stop, Page Refresh, Page Scroll, etc.
Incognito mode
Sliding mode

Bookmark management
Add a bookmark entry
Delete a bookmark entry
Edit a bookmark entry
Reorder bookmark entries in bookmark list
Clear all bookmark entries

History management
Delete a history entry
Clear all history entries

Cookie management
Clear all cookies

User control/input
Virtual mouse
USB mouse
USB keyboard

Multi-tab browsing
Tab management (create, remove, switch, etc.)
Up to 6 tabs simultaneously

Zoom in/Zoom out
50%-65%-75%-80%-90%-100%-110%-125%-150%-175%-200%

Settings
Clear Bookmarks
Clear History
Clear Cookies
Clear User data

UI language
Support 52 languages so far.
Albanian, Amharic, Arabic, Azerbaijian, Belarusian, Bosnian, Burmese, Bulgarian, Croatian, Crnogorski, Czech, Danish, Dutch, English, Estonian, Finnish, French, Georgian, German, Greek, Hebrew, Hungarian,

Indonesian, Irish, Icelandic, Italian, Kazak, Korean, Macedonian, Malaysian, Mongolian, Norwegian, Persian, Polish, Portuguese, Romanian, Russian, Serbian, Simplified Chinese, Slovak, Slovenian, Spanish, Swahili, Swedish, Tamil, Thai, Traditional Chinese, Turkish, Ukrainian, Urdu, Uzbek, Vietnamese

UI resolution
1080P, 4K or higher

Recommend page
Recommended hot web pages and popular contents

Auto search
Non-URL format input in URL bar is considered as key words to open search page

User agent switch
PC user agent
iOS user agent
Android user agent

Specification

HTML5 Browser Core Features:
HTML5 (Canvas, Web Storage, Web Components, Web Workers, Web Socket, Audio/Video Tags, Server- Sent Events, Web Cryptography API, Web Animations, etc.)
HTML4.01
XHTML 1.1, XHTMLBasic 1.1, XML 1.1
CSS3 (3D Transforms, CSS3, Animations & Transitions, CSS3 Media Queries and Selectors, CSS3 Opacity, CSS3 Outline, CSS3 Background)
CSS2.1, CSS1
Image support: GIF, JPEG, PNG, SVG, WebP
Smooth Streaming, HLS, DVB DASH
HTTP Caching, Redirect, Cookies, User-Agent

Protocols
HTTP 1.0/1.1, HTTP/2
SSL v3.0
TLS 1.2, TLS 1.3
IPV4/IPV6

Operation Systems:
Linux
Android

Supported CPUs
ARM
MIPS

Memory Requirements
ROM: > 80MB (ARM Linux)
RAM: > 150MB

Figure 3.　Incognito mode