

# NetFront™ Browser v3.5 Featuring Smart Swing Navi

Revolutionizing navigation on camera phones with Realeyes3D Motionized™ technology

## Enhancing the user experience on mobile phones

NetFront Browser is the most advanced, versatile, and powerful Internet browser available in the mobile market today. Specifically designed and optimized to deliver high performance in resource-constrained environments, NetFront Browser supports almost any OS and CPU and offers low power consumption, easy customization, and a broad range of plug-ins.

Smart Swing Navi is an example of one of many advanced user interface features available on the latest version of NetFront Browser. Powered by the award winning “Motionized” technology developed by Realeyes3D, Smart Swing Navi overcomes the physical limitations of small screen displays on camera phones to enhance and animate the user experience.

Smart Swing Navi allows users to pan and zoom within a web page, all with a simple flick of the wrist. This intuitive, natural, and smooth motion-based panning and zooming gives users easy navigation and access to the full range of rich content available on the Web.

## Powered by the revolutionary “Motionized” technology

Smart Swing Navi is powered by Realeyes3D Motionized - a software-only, motion-detection technology that overcomes the constraints of CPU and memory on camera phones and revolutionizes navigation and the user interface.

Motionized is based on highly efficient software algorithms, which determine the movements of the mobile phone by analyzing images from the camera phone lens, thus transforming the device into a motion sensor. The solution is based on software image processing technology, so devices powered by NetFront Browser need no additional expensive hardware such as accelerometers.

## A more intuitive, natural content navigation experience

By using the movement of the handset to navigate content, Motionized technology enables a breakthrough in the user experience, including:

- **Surf and navigate full web pages** - users can scroll contents, zoom out to view the full page and zoom back in to the required link with simple gestures.
- **Zoom and pan high-resolution pictures** - users can navigate quickly and smoothly within images that are normally too big to be viewed on the handset display.
- **Navigate maps easily** - users can view points of interest and zoom in on details on location maps with a twist of the wrist.
- **Read email documents** - users can scan and read email attachments with a simple tilt of the phone.
- **Enjoy interactive gaming** - users can enjoy an exciting, interactive experience that integrates the reality seen through the camera lens and the motion of the handset.

### Camera-powered navigation in action

Moving or tilting the phone left, right, up, or down commands the navigation interface



Tilting the phone up or down zooms in or out on the area of interest



### Smart Swing Navi: Customized Features and Benefits

FEATURES	BENEFITS
Software has small footprint and low memory consumption	NetFront Browser with Smart Swing Navi can be implemented on most terminals*. This solution has been ported to low-end processors like the ARM7.
Motion-based navigation and zooming	Natural, seamless and innovative user experience
Versatility	Navigation features for any application can be mapped to make use of motion information delivered by Motionized technology
Manual mode	Panning and zooming can also be done manually by pressing keys or moving the handset joystick
Fully software-based	A cost-effective solution with no need for additional expensive hardware
Works seamlessly with front and back camera	No action is required from the user to activate one camera or the other. No need to open the back camera lead for 3G phones with front camera

\* Minimum device requirements: Processor ARM 7 or higher; ROM: 40kB; RAM: < 100kB; Camera module: Any resolution; > 12 frames/sec recommended

### Realeyes3D, an ACE partner



Realeyes3D is a member of the ACCESS Connect Ecosystem (ACE) global partner program, a network of leading companies setting the market direction for innovative converged technologies and solutions.

Realeyes3D develops advanced image processing applications and wireless data services for users of camera phones, enabling new camera-based features and services in the areas of personal productivity, mobile messaging, user interfaces, gaming, and more. Realeyes3D enables camera phone manufacturers, mobile operators, and mobile content specialists to increase their value proposition to consumer and professional camera phone users.



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