

The graphical format **WAAVES 2.5** answers the modern needs of digital images: conformity to the original image, file compactness, ease of use and polyvalence of usages. Professional associations (healthcare, graphical arts) have recognized **WAAVES** qualities.

## Compress once, display anywhere!

With **WAAVES 2.5** technology, digital photographs, medical imaging, computer generated images, scanned documents images, high resolution images are stored and exchanged according to the needs in lossless, perceptual lossless or highly compact mode. **WAAVES 2.5** image compression index ensures the same perceptual quality for similar images, thus optimizing the size of each file.

The graphical format **WAAVES 2.5** covers the various digital usages: archive, transmission, Internet publication, printing:

- ❑ The compactness of **WAAVES 2.5** decreases files transfer time, makes the image file suitable to e-mail box size and speeds up Internet image display. It eases image sharing through all kind of local and wide area networks: xDSL, analog, 2.5G, satellite...
- ❑ The same **WAAVES 2.5** single file will be optimally displayed on all electronic devices, computer monitor, high-resolution monitor, mobile phone...

## A scalable range suited to the various needs

Scalable, the range of software is available for Windows, Mac OS X and Symbian. It covers the various needs and eases image storage, transfer, exchange and sharing.

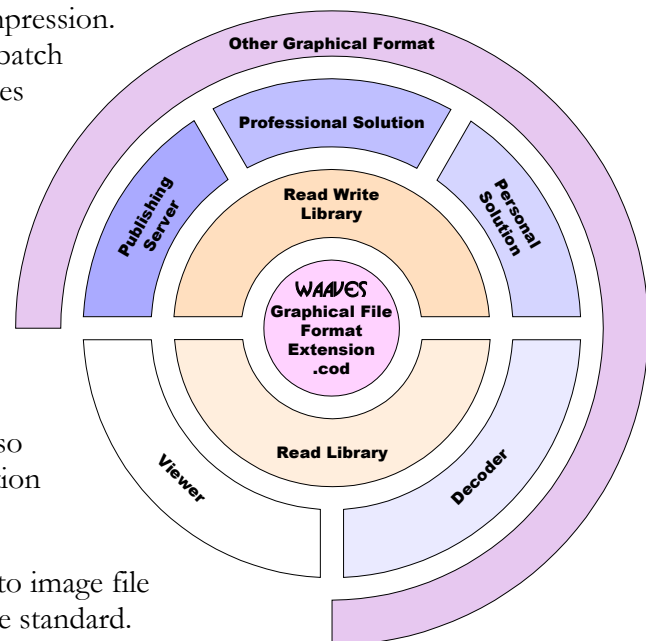
The **Personal Solution** allows manual compression.

The **Professional Solution** includes batch process and the **Publisher Server** automates the whole process.

The **Viewer** reads **WAAVES** file format and display images on the various computer solutions and cellular phones. **Decoders** also allow converting **WAAVES** images to several graphical file formats.

This range is built on top of 2 **libraries** also available separately allowing **WAAVES** integration in various third party applications.

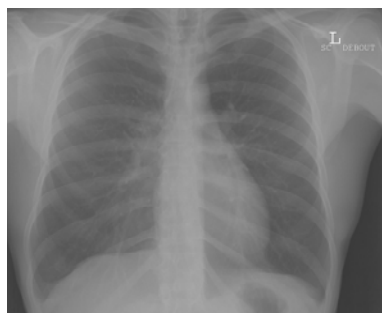
Healthcare versions add the ability to access to image file embedded in Dicom, the radiologist exchange standard.



**WAAVES 2.5** products are also available in a mobile edition. In that case, the software is loaded in a removable media like an USB memory unit and runs from the media. The same media includes software for the various OS. No installation on computer is required.

## Summary of characteristics

	Viewer	Decoder	Personal Solution	Professional Solution	Publishing Server
<b>Mains features:</b>					
▶ WAAVES Display:	✓	✓	✓	✓	✓
▶ Others format display:	✗	✓	✓	✓	✓
▶ Compression:	✗	✗	✓	✓	✓
▶ Exportation:	✗	✓	✓	✓	✓
▶ Batch process	✗	✗	✗	✓	✓
▶ Tasks automation	✗	✗	✗	✗	✓
<b>Technical characteristics:</b>					
▶ Colors:	24 bits (Millions)				
▶ Grayscale:	8, 10, 12, 14 or 16 bits				
▶ Compression:	Lossless (reversible) or lossy mode with a quality index				
▶ Directory processing:	✗	✗	✗	✓	
▶ Rules System:	✗	✗	✗	✗	✓
▶ Profile management :	✗	✗	✗	✗	✓
<b>Options:</b>					
▶ Mobility:	✓	✓	✓	✓	✗
▶ Dicom read:	✗	✓	✓	✓	✓
<b>OSes:</b>					
▶ Windows	✓	✓	✓	✓	✓
▶ Mac OS X	✓	✓	✓	✓	✓
▶ Symbian v. 6.x	✓	✗	✗	✗	✗



Resolution 2 494 x 2 048  
 Gray level 12 bits  
 File size 141 KB  
 Compression 71



Resolution 600 x 1 200  
 File size 42 KB  
 Compression 135



Resolution 800 x 1 000  
 File size 46 KB  
 Compression 51

# CIRA - Société de Compression d'Images en Réseaux et Applications

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**Software Publisher:** CIRA is one of the pioneers in the application of wavelet theory technology for digital imaging. CIRA's product line encompasses all types of professional digital imaging and transmission markets, and makes embedding automatic compression functionality an easy task for all application types.

European Communities have awarded WAAVES "European IST Prize Nominee".

CIRA - SARL nominal capital 10 000 € – RCS Paris B 420 950 313 – APE 722  
 Non commercial information – Specifications can change at sight – W25 Var X US Products 050218