

**Interactive
Media
Systems**

CD-I Authoring Tools



Hal90

HAL 90

Dedicated PC based CD-I development package

- Offers access to CD-I technology focusing on design, navigation and interaction
- Simplified authoring process by using a multimedia oriented language
- A set of interactive multimedia situations, known as Interactive Models. The author can focus on program development without having to bother with low level operational details
- Runs under Microsoft Windows 3.0
- No programming skills required for authoring
- A query (question/answer) user interface



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Features

- **Preloading**
To save time searching and loading images from the disc, the preloading feature loads the images most likely to be called next into memory for faster access.
- **Cursor Shapes**
Predefined cursor shapes can be used with automatic display according to the screen area.
- **Video Effects**
Numerous video effects can be used to provide dynamic transitions between screens: cuts, wipes, dissolves, square in/out, push up/down, and cover up/down.
- **Hot-spot Shapes**
Several hot-spot shapes can be defined: rectangle, square, ellipse, and circle.
- **Stack Handling**
Sophisticated stack handling allows IM-Models to be placed on a stack which helps in designing complex navigational structures and networks.
- **Action control by hotspots and control bar**

Interactive Models

provide a variety of structures for designing a CD-I application:

- **Still picture**
Define a still picture with hot-spots.
- **Still + audio**
Same as above with the addition of an audio track.
- **Still + background**
Define a still picture with hot-spots along with a background picture. When the cursor is inside the hot-spot area, the hot-spot becomes transparent, displaying a portion of the background picture.

- **Still + audio + background**
Same as above with the addition of an audio track.
- **Sequence**
Displays a series of full-screen pictures along with an audio track. Hot-spots can be defined to interrupt the sequence or trigger other actions.
- **Cartoon**
Displays a full-screen run-length animation along with an audio track. Hot-spots can be defined to interrupt the display or trigger other actions.
- **DYUV window motion**
Displays a DYUV movie in a part of the screen along with an audio track. Hot-spots can be defined to interrupt the display or trigger other actions.
- **Sequence + control**
Displays a series of full-screen pictures along with an audio track. A replaceable DYUV control bar with seven hot-spots can be displayed to provide the user with control of the sequence. Three hot-spot definitions on the control bar are fixed: skip back, continue, and skip ahead. Up to four others can be defined by the designer to trigger other actions.

An extensive set of instructions is available to define the type of interactions and links between the Interactive multimedia Models or for specifying particular situations.

Deliverables

HAL90 includes a query (question/answer) user interface, a compiler and a linker. The result is a code that can be used for previewing and testing the application with the Emulator.

Requirements

Minimum configuration for HAL90 development:

- 80386 PC compatible (20 MHz or faster recommended), min. 4Mb memory (8Mb recommended), large capacity hard disk or network server disk storage.
- MS-DOS (version 3.3 or higher) with Microsoft Windows (version 3.0 or higher)
- Philips 180, 181, 182 CD-I development system or Philips CDI 605 player.
- OptImage/Philips CD-I Emulator with pre-mastering and emulation programs

Optional (but recommended) software

- OptImage Image Conversion Utilities (ICU's) and Audio Conversion Utilities (ACU's) for the conversion of video and audio assets into CD-I formats.

or

- MediaStockroom, an PC based asset management system combined with Audio and Image Conversion Utilities.

Developed in cooperation with



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For more information contact Philips IMS:

In the US: 1 (800) CDI - 5484
In Europe: +31 (40) 73 6228
In Japan: (03) 3665 - 9740
Applelink® D6431



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