

# MultiMedia Works Quick Start & Release Notes

---

LENEL MultiMedia Works Version 1.5  
Universal Multimedia Application for Windows

Release Notes:

---

- > The following Windows MCI drivers are included for your use:
  - Autodesk FLI/FLC Animation
  - Gold Disk AWA/AWI Animation
  - Microsoft MMP Animation
  - Microsoft Video for WindowsThe drivers are located in the OEMDRV subdirectory of your installed MultiMedia Works.  
**TO USE these drivers, they must FIRST be installed via the Windows Drivers applet in the Windows Control Panel.**
  
- > We have included sample Macros to access MultiMedia Works from several Windows application programs, including AmiPro, Word for Windows and Excel. These macros and a README.WRI file detailing their installation and use can be found in the MMWMACRO subdirectory.

# Introduction

## Several Multimedia Functions In One Package

MultiMedia Works offers Windows users several powerful multimedia functions in one easy-to-use package. These functions include:

***Multimedia Player***

to play animation, audio, video, graphic and document data from digital and analog sources with the simplicity of the Windows environment

***Multimedia Show Builder***

to sequence and synchronize graphics, animation, audio and video into attention-grabbing presentations

***Multimedia-Enabling Server***

to embed multimedia into different applications using a variety of Windows conventions (e.g., clipboard, OLE, DDE, command-line interface, DLL\*)

\*DLL is available only with the MultiMedia Works Developer's Toolkit.

***Multimedia Mail***

to create, send and display multimedia messages

Multimedia Mail is available only if you are using Microsoft Windows for Workgroups.

To take advantage of the powerful features of MultiMedia Works, you must first install and configure the software for your use. Read on to find out how.

## Installation

If you haven't already installed MultiMedia Works on your computer, follow this procedure to do so:

1. Make sure that Microsoft Windows is active and that the Program Manager screen is displayed.
2. Insert the MultiMedia Works Installation diskette into the appropriate floppy disk drive of your computer.
3. Select the *File* command in the menu bar.  
The Program Manager menu will be displayed.
4. Select the *Run* command from the drop-down menu.  
The Run window will be displayed.
5. Enter **A:\INSTALL** in the *Command Line* field of the Run window.  
Note: If you are installing MultiMedia Works from a drive other than A:, substitute the correct drive letter when typing the command in this step.
6. Select the *OK* screen button or press <Enter> from your keyboard.  
A brief message will be displayed while the installation program copies itself to a temporary directory. After the files are copied, the installation program will present you with a series of Menu Choices and message windows from which you can select the desired installation drive and directory (default is c:\mmworks). Follow the on-screen prompts to complete the installation.

When the installation has successfully completed, a window will be displayed when MultiMedia Works has been successfully installed. A Program Group will be created containing icons for the MultiMedia Works application.

To initiate a MultiMedia Works session, double-click on the MultiMedia Works icon. The MultiMedia Works base screen will be displayed.

## Setting Up Your MCI Drivers

MultiMedia Works uses Windows Media Control Interface (MCI) drivers to:

- Play multimedia files including animation, digital video, MIDI and Waveform audio files.
- Control peripheral devices such as audio and video boards, and CD-ROM players.

To be able to play certain kinds of multimedia data, the appropriate MCI drivers must first be correctly configured under Windows. Note that different devices may require special setup or operational procedures.

### General MCI Driver Installation

To install any of the included drivers, perform the following steps:

1. In order for the LENEL MCI drivers to be properly installed, some boards require that vendor provided software be installed *prior* to installing the LENEL MCI driver. Please consult the section below for board specific installation requirements.
  - a. From the Windows Control Panel, select the Drivers applet.
  - b. Select *ADD...*
  - c. Select *Unlisted or Updated Driver*.
  - d. You will then be asked for the disk with the unlisted, updated or vendor provided driver. Enter the pathname of the location of the drivers (i.e. C:\MMWORKS\OEMDRV). (Note: rather than typing the full pathname, the BROWSE option in this window can be used for locating the drivers directory.)
  - e. A list of available drivers will be displayed. Select and ADD the driver you require.
  - f. Repeat steps b through e for each additional driver you wish to install.

Consult your Windows documentation for detailed instructions regarding adding unlisted or updated MCI drivers to your computer. For additional information on a particular peripheral device, consult the documentation supplied with the device and/or driver.

Once correctly configured in Windows, the MCI drivers must be defined and activated in MultiMedia Works. When you run MultiMedia Works for the first time, the software will search your hard disk and attempt to identify available MCI drivers. Even so, you should perform the following 3 procedures the first time that you run MultiMedia Works, and whenever you add an additional driver as well. This will ensure that MultiMedia Works will be able to use the drivers to play associated multimedia data.

If you will be using analog peripheral devices with MultiMedia Works, you will also need to:

- Install the appropriate MCI drivers for your peripheral devices
- If applicable, define and activate peripheral device drivers for video decks, laser disc players, etc.
- If applicable, define the devices connected to your video board

### Scanning System Devices and Drivers

To scan your hard drive for existing MCI drivers:

1. From the MultiMedia Works base screen, select the *System Config...* menu option from the Options drop-down menu.

The System Configuration window will be displayed. This window includes the following:

  - drivers list area - lists the MCI drivers available for MultiMedia Works. Located in the topmost portion of the System Configuration window.
  - Driver Definition area - provides an area to add or change MCI drivers including those for peripheral devices connected to your computer, as well as to define the

communication ports and addresses of these devices (if applicable).

2. From the System Configuration window, click on the *SCAN* button.

MultiMedia Works will query Windows for installed MCI drivers. After the scan has completed, recognized drivers for video boards and external devices will be listed as *INACTIVE* in the Available Drivers list. All other recognized drivers will be listed as *"ACTIVE"*.

### Activating MCI Drivers

After MCI drivers are defined, they need to be activated before they can be used in MultiMedia Works.

To activate a driver:

1. From the Available Drivers area of the System Configuration window, select the entry for the device to be activated.
2. Click on the *TOGGLE* button. Note that the status changes from "Inactive" to "Active". If you instead receive an error message, one of the following conditions may exist:
  - The selected device driver is set to a communication port that is already in use (i.e., another active device is already connected to the same port)
  - You are trying to activate a video board when another video board is already active
  - An active VISCA device using a shared communications port has the same address as the selected driver
3. Activate other drivers in the same manner, or click on the *EXIT* button to close the window.

### Configuring Video Board Inputs

After setting up and activating a video board, you must configure the following parameters for each input device connected to the board:

- Input Device Type
- Signal Type
- Assigned Audio Input

To configure a video board's inputs:

1. From the System Configuration window, select the desired active video board from the list of Available Drivers.
2. Click on the *I/O CONNECTIONS* button.  
A corresponding Video Display Board Connections window will be displayed. Some of the Video Input areas may not be accessible, depending on the video board selected.
3. Click on the *Input Device* down-arrow button in the Video Input 1 area.  
A list of defined and activated peripheral devices will be displayed.  
Note that, if you are using a video board with a manually-controlled device (such as a VCR), the drop-down list may contain no devices from which to choose. In this situation, we suggest that you return to the System Configuration window, select "Video Signal" from the Type drop-down list, then *ADD* it and *TOGGLE* it to "Active". Then click on the *I/O Connections* button to return to the Video Display Board Connections window. You will then find a "Video Signal" entry in the drop-down list of *Input Devices*.
4. Select the appropriate device from the drop-down list.
5. Select the appropriate settings for the Signal Types and Audio Input for Video Input No. 1. Available settings include:
  - NTSC (U.S.) or PAL (European) signal format
  - S-Video, RGB or Composite signal format
  - 1, 2 or 3 for the audio input used with the selected device for Video Input 1.
6. If applicable, repeat Steps 3-5 for other inputs available from the active video board in the Video Input 2 and 3 areas.

When all the video inputs have been defined:

7. Click on the *OK* button to save your settings and return to the Systems Configuration window.

# Multimedia Player

## Drag & Drop Object Play: Playing Individual Objects

With the Multimedia Works application software open:

1.
  - a. Initiate Windows File Manager by either:
    - selecting *Start File Manager* from MultiMedia Works' Control-Menu box
    - or selecting the **F4** function key ("Start File Manager")
  - b. Resize the windows so that both the File Manager and MultiMedia Works windows are visible.
  - c. Select the desired file in File Manager and drag-and-drop it over the MultiMedia Works window. The object will play automatically in a MultiMedia Works display window.
2. As an alternative to using File Manager, you can use MultiMedia Works' *Open File* control (button). This control will display a Lenel Open File dialog window for selecting and loading files. The control can be accessed from any MultiMedia Works display window, even if an object is already displayed in the window.
3. After playing the object, select the *Exit* control in the MultiMedia Works display window.

**Note:** You can also press the **Esc**(ape) key to close the display window.

## Drag & Drop Object Play: Playing Multiple Objects

You can also select multiple objects from File Manager to play them sequentially. When multiple files are selected, they are played back in MultiMedia Works Show windows. Show windows are similar to object display windows, but contain a different set of controls. Show window controls enable you to move around between objects in a show.

Playing multiple objects using basic show controls is described below. Creating and playing shows is described in the Multimedia Show Builder section of this document.

To play multiple files using drag-and-drop from the MultiMedia Works application base screen:

1. Display File Manager by pressing the **F4** key.
2. Reconfigure your screen so that both the File Manager and MultiMedia Works windows are visible at the same time.
3. In File Manager, use a standard Windows file selection technique (employing the <Ctrl> or <Shift> key) to select those files that you wish to play.
4. Drag the files over the MultiMedia Works window and release the mouse button. Each object will play, then advance to the next object automatically.

If you wish to manually advance the show objects:

5. Select the *Advance* control in the show window to advance to the next object. Repeat this step until you have viewed all desired objects.

After displaying the last object, the show will automatically terminate and you will be returned to the base screen.

**Note:** You can abort the show at any time by pressing the **End** key or by selecting the *Stop* control in the show window to return to the MultiMedia Works base screen.

### Double-Click Object Play

By Registering File Extensions, you can double-click on a file in File Manager to launch MultiMedia Works and load the file. In this way, it is not necessary to have the original application that created the file. Note that drag-and-drop object play does not require you to Register File Extensions; this procedure only applies if you wish to play files using double-click from File Manager.

1. Select *Register Extensions...* from the File Menu  
The Register File Extensions window will be displayed.
2. Select *MultiMedia Works* from the drop-down list of Target Applications.
3. The Associated Extensions list will include entries for Lenel media formats such as *.Ida* and *.Idv*. To register additional extensions in MultiMedia Works:
  - a. Highlight the desired extension(s) in the File Extensions list.
  - b. Click on the *right arrow* button to add the extension(s) to the Associated Extensions list.
4. Click on the *OK* button.
5. From the Windows File Manager, you can now double-click on any file having a registered extension. This action will launch MultiMedia Works and load the file.

### Display Window Configuration

MultiMedia Works lets you customize the way different object (media) types are displayed. For each object type, you can define size, placement and style characteristics of the display window. You can also define master settings which will apply to all object types.

1. Select *Display Window Config...* from the Options menu.  
The Display Window Configuration window will be shown with default settings selected.
- 2a. Click to select the *Window Type* (i.e., object type).
- b. By selecting the *Master Window Type*, you can define a group of settings that will apply to all object types. Then, when you select the *Use Master For All* checkbox prior to playing a particular object or show, MultiMedia Works will override all other Display Window Configuration settings and use the Master settings for all objects.
3. Choose *Window Style* options for the selected type
4. If you wish to have a window automatically close after the object has been displayed for a specific time, select *Auto Close* then specify the number of seconds of display time.
5. If you are defining the audio or analog/digital video Window Configuration, select an *Audio* and/or *Video Style*.
- 6a. Select display *Window Size* and *Window Position* using the drop-down list, radio buttons, increment/decrement buttons, and/or manual entry.
- b. Alternatively, choose the *Select Size/Position...* button. This allows you to define Window Size and Position by example. Use the example window's control-menu box to move, resize, or specify whether you are defining size and/or position. Then close the example window, if it isn't closed.
7. Click on the *OK* button.



## Compressing Object Data

MultiMedia Works supports data compression for graphics and video still images. Data compression reduces an object's disk storage requirement. MultiMedia Works lets you compress an object during a save operation.

1. From a graphic or analog video display window, select the *Save File* control.
2. A Lenel Save File Dialog window will be displayed. Click on the *Compress...* button.
3. An Image Format Options window will be displayed. Select:
  - a. *Pixel Format* - indicates the amount of color information for each "dot" of the image.
  - b. *Color Reduction Method* - method by which the number of colors in the image is reduced. This is important if the object is to be displayed on a computer screen that supports fewer colors.
  - c. *Include Desktop Colors* and *Dither Paletted Image* are modifiers for the Color Reduction Method.
  - d. *Compression Type* and *Quality* from the drop-down lists, or use the horizontal scroll bar to select a compression/quality balance. The rule of thumb is: the higher the compression (i.e., the smaller the disk space the compressed image requires), the lower the quality of the resulting image. MultiMedia Works supports compression of .tif, .jpg and .cmp objects using JPEG, Lead, and/or TIFF CCITT standards.
  - e. Click on the *Set Default* button to establish your settings as the default for the current File Type.

The size of a saved object depends on the Pixel Format, the number of pixels in the original object and the Compression Type. Since Image Format Options are numerous and sometimes complex, we suggest that you try different combinations, then view the resulting compressed files to get a first-hand understanding of the different methods available to you. Your User Manual describes Image Format Options in greater detail.

## **Multimedia Show Builder**

Multimedia Show Builder enables you to create multimedia shows which can then be played back on your PC. Show Builder provides complete flexibility including the ability to:

- Use any multimedia objects supported by MultiMedia Works, including audio, analog & digital video, animation and graphics
- Resequence any or all show objects
- Specify the number of repetitive plays for an object
- Jump to any object in the show sequence
- Control when to start playing the next object in the show
- Select color(s) and/or graphic(s) to use in the background while the show is played
- Select the playing time for individual or all objects
- Customize the window display characteristics for individual objects or for different show data types

You can even embed MultiMedia Works shows into other applications from which the shows can then be played.

### Creating a Show

You can create multimedia presentations using MultiMedia Works' Show Builder function. Shows are created from a *Show Builder* window, which contains an *Objects List* and a *Show List*. The *Objects List* is located in the left portion of the window. You will drag-and-drop all potential show items into this *Objects List*. The *Show List* is located in the right portion of the window. You will copy objects from the *Objects List* to the *Show List* to build your presentation. From the *Show List*, you can then change object and presentation characteristics to customize your show.

From the MultiMedia Works application base screen:

1. Select *Show* from the Multimedia drop-down menu, or select the *Show* button from the toolbar. The Show Builder window will be displayed.
2. Display File Manager by either:
  - pressing the **F4** key, or
  - selecting the *Start File Manager* command from the Control-Menu boxResize/position your screen so that both File manager and Show Builder windows are visible.
3. Drag-and-drop the objects you want in your show from File Manager over the Show Builder window. As you drop objects on the MultiMedia Works Show Builder window, their filenames(s) will appear in the *Objects* area of the window. Note that, if you wish to play any object in this *Objects* list, you can do so by double-clicking on the list entry for that object.
4. As an alternative to using File Manager, selecting the *Locate Object* command from the *Edit* menu will display a Lenel Open File Dialog window, with "All Files (\*.\*)" as the default filename extension. Use this window to add objects to the current show. Once the desired object is selected in the Open File window, selecting the *OK* button closes the window and places the selected object into the *Objects* list of the current Show Builder window.

From the *Objects* list:

5. Select the objects from the *Objects* list that you want in the show using any of the following methods:
  - select the *ALL* button to select all objects in the list
  - click on individual objects
  - use the **Shift** key to select a range of objects
  - use the **Control** key to select multiple objects
6. Select the *right arrow* button to place the selected objects in the show. An entry for each selected object appears in a *Show List* in the rightmost portion of the Show Builder window. Note that you can have multiple entries for the same file; for example, you may wish to play the same audio object at the beginning and at the end of your presentation.
7. You can resequence show objects using either of these methods:
  - a. To move one object, highlight the object then click on the *plus (+)* or *minus (-)* button to move the object up or down in the sequence.
  - b. To resequence the entire show, click on the *ReOrder* button. Then click on each object individually in the desired order. Note that as each object is selected, its sequence *No.* appears beside it in the *Show List*.

### Selecting a Background Color and Graphic

You can assign a color to be displayed in the background of your show. You can also assign a graphic object (your company logo, for instance) to be displayed at a designated size and position on the screen during the show. You can also have different background colors and objects for different portions of your show.

From the Show Builder window:

7. Double-click on *Bckgrnd* in the Show List. The Show Background Settings window will be displayed showing the default background color (black).

Specifying a background color for your show:

- 8a. From the Show Background Settings window, select the PICK COLOR button. The Windows Color Palette window will be displayed.
- b. Select the desired color (or define and select a custom color) and then select the OK button. The selected color will be shown in the Color: field of the Show Background Settings window.

Selecting a Background Graphic:

9. From the Show Background Settings window, select the desired show graphic using either:
  - the drop-down list from the Graphic field, or
  - the *FIND...* button, which displays a Lenel Open File Dialog box. Select the type of file and then the specific graphic object; click on *OK*.

To select a size and screen position for the background graphic:

10. Select the *SIZE/POSITION...* button. A Display Window Configuration window for the background graphic will be displayed.
11. Select the *Window Size* and *Window Position* for the graphic, then click on *OK*.
12. Select *OK* to close the Show Background Settings window.
13. You can change these background settings by double-clicking on the *Bckgrnd* entry in the Show List, which activates the Show Background Settings window.

To specify playing characteristics for a particular object in the show:

- 14a. From the Show Builder window, double-click on any entry in the Show List (except *Bckgrnd*) to display the Playback Characteristics window.
  - 1) Select a *Repetitive Playback* option to indicate the number of times you want the object to be played at that point in the show.
  - 2) Select a *Begin Next Item* option to specify when to play the next object in the show sequence. Note that you can set the timing controls to play multiple objects simultaneously, or to overlap objects.
  - 3) If you specify a value for *Display for ...Seconds*, MultiMedia Works will play or repeat play the object for this length of time.
  - 4) You can also choose to play the object for the *Default Time for Window Type*, as defined in the Display Window Configuration window.
- b. Note that you can click on the *Options...* button from the Show Builder window to activate the Playback Characteristics window. From there, click on the *Configure...* button to activate the Display Window Configuration window.
- c. Note also that you can click on the *Configure...* button from the Show Builder window to activate the Display Window Configuration window.

### To Play a Show

To play a show from the Show Builder window, either:

- select the *Play* option from the *Display* menu, or
- press the **F9** key

The show objects will play in the specified sequence.

### Other Show Playback Options

In addition to these object-related options, show-related options are available from the *Display* menu in the Show Builder window:

- Minimize on Play** - configures the show to minimize MultiMedia Works during show play. This option does not itself actually start the show.
- Continuous Play** - starts the show and plays it continuously, until the **End** key is pressed or the *Stop* control is selected.
- Password Play** - requires the user to enter a password to start the show. The show then starts, and the user must enter the same password to stop the show.

### Password Show

If the *Password Play* option is selected, the user will be prompted to enter a password before the show will commence. Once the correct password has been entered, continuous show play will begin. When the user tries to stop the show, he/she will once again be prompted to enter a password. If the correct password is entered, the show will be stopped; otherwise, it will continue to play.

## **Multimedia-Enabling Server**

MultiMedia Works software allows you to embed multimedia objects into other Windows-based applications using a variety of methods including:

- Windows clipboard including Object Linking and Embedding (OLE)
- Dynamic Data Exchange (DDE)
- Command-line interface
- Dynamic Link Library (DLL) calls (using MultiMedia Works' Application Programming Interface)\*

**\*Note:** DLL is available only with the MultiMedia Works Developer's Toolkit.

This flexibility enables MultiMedia Works users to embed multimedia data into other commercial or custom Windows applications using the method with which they are most comfortable.

### Using Windows Clipboard and OLE

To copy a MultiMedia Works object to the Windows clipboard from the application base screen:

1. Display the desired object or show in a MultiMedia Works display window.
2. Select either the:
  - *Copy To Clipboard* icon, **or**
  - *OLE Copy* command from the *Edit* menu for shows

The selected object or show will be copied to the Windows clipboard.

To paste the object or show into another application:

3. Open the desired application file (e.g., Microsoft Word for Windows document).
4. Position the cursor where you want the object or show to be pasted.
5. Select one of the following *Paste* commands in the destination document:
  - *Paste* or *Paste Special/Object* - Embeds the MultiMedia Works object into the destination document.
  - *Paste Special/Picture* or *Paste Special/Bitmap* - Pastes a pictorial representation of the object data into the destination document.

### Playing Embedded Objects

To play the embedded object in the destination document:

1. Double-click on the object thumbnail or Lenel icon.  
If it is not already active, the MultiMedia Works application will automatically be started and the object will play in a display window.

To close the object window in the destination document:

2. Select the *EXIT* control.  
The Lenel object will revert back to its iconic or thumbnail form in the destination document.

### Using DDE

Microsoft's Dynamic Data Exchange (DDE) is useful when you wish to embed multimedia objects in applications that do not support OLE.

MultiMedia Works fully supports DDE as follows:

- *DDE Execute* command
- Service Name: LnIserver
- Topic Name: System
- Command Name: "Open"
- Item: File name of the multimedia file to play

MultiMedia Works also includes DDE macros for use with the following applications:

- AmiPro
- Microsoft Excel
- Microsoft Word for Windows

For more information on using Microsoft's DDE capabilities, consult the Microsoft Windows Version 3.1 Software Developer's Kit (SDK).

### Command-Line Interface

MultiMedia Works also supports Microsoft's command-line interface. This interface is useful to start the MultiMedia Works application from another application using a Windows call (e.g., via the *Run...* command). Available commands include:

-f[full pathname for show]	plays the specified show
-k	initiates continuous play of the show
-p	initiates password play of the show. The user will be prompted for a password to start and end the show

#### An example:

The command **c:\mmworks\mmworks.exe -fd:\sales93\demo2.lsi** plays the MultiMedia Works show *demo2.lsi*, which is located in the directory *sales93* on drive *d:*.

## Multimedia Mail

If you are a Windows for Workgroups user, you can use the Multimedia Mail function to send any MultiMedia Works object or show to other Workgroups users on your network.

### Logon

The Logon command establishes a link between MultiMedia Works and the Windows for Workgroups mail system.

1. Select the *Logon* command from the *Multimedia Mail* menu  
The Windows for Workgroups Mail Sign In window will be displayed.
2. Enter your user name and password.
3. Click on the *OK* button.

### Retrieving New Mail

1. Select the *Check For New Mail* command from the *Multimedia Mail* menu.  
A Lenel Mail Status Monitor window will be displayed, providing a summary of new mail received.
2. To read mail from this window, select the desired message, then click on the *READ MAIL...* button

### Sending Mail

1. Select the *Send Mail* command from the *Multimedia Mail* menu.  
The Windows for Workgroups mail system's Send Note window will be displayed.
2. Complete the envelope (To:, Cc:, Subject:) portion of the window

To compose a multimedia message:

1. Display the desired object or show in a MultiMedia Works display window.
2. Copy the object or show to the Windows for Workgroups clipboard by using the:
  - *Copy To Clipboard* control for objects, **or**
  - *OLE Copy* command from the *Edit* menu for shows
3. Position the cursor where you want the object or show to be pasted.
4. Paste the copied object or show into the Send Note window
5. Click on the *Send* button.

### Logoff

The Logoff command closes the link between MultiMedia Works and the Windows for Workgroups mail system.

1. Select the *Logoff* command from the *Multimedia Mail* menu.