LUMENA LIBRARY

PRODUCT DESCRIPTION/OVERVIEW:

Lumena Library (Model #M4030) is an integrated graphics creation program which allows the video producer a great deal of flexibility when creating logos, charts, graphs, images, and drawings. The user can select from hundreds of colors and use a wide variety of pens and brushes. Colors, shapes, and images may be changed at will. Characters can be easily integrated with pictures and the resulting image animated. A variety of special effects such as color cycle and cell animation are also included. The user can draw directly over video utilizing this program. In a Mindset II (M1000II) configuration, Lumena Library works with the Video Animator (M4202) program to create powerful and extended animation sequences.

Lumena Library combines all of the options for Lumena (i.e. Paint, Fonts and Layout, Animation, and Video) into one completely integrated package. You can use Lumena Library to do animation, page layout, and text generation, as well as combine them with video overlays and effects, all without any complicated and cumbersome installations. The Lumena Library package contains four diskettes, includings two program diskettes, one startup diskette, and one data diskette. The two program diskettes are identical, so one can be used as a backup. Although Lumena Library is a large, powerful program, it is extremely well-organized and easy to use. All work is done with the Mindset Graphics Tablet (M3003A) and pen, similar to using a pencil and paper. The Mindset Mouse (M3001) may be used as an alternative to the graphics tablet. As one draws, the image appears on the screen. An on-screen help feature is incorporated which follows the user through the menu structure. The user calls up the help screens if he/she runs into any problems, and receives specific instructions about each task.

FEATURES:

Lumena Paint:

- 16 on-screen colors from a palette of 512
- 8 brush sizes
- 8 pen sizes
- Custom brush creation capability
- 8 airbrush sizes
- 8 eraser sizes with the ability to erase a single color or the entire screen
- Automatic line creation ability between two points, rubberbanding, orthogonals.
- Automatic rectangle, circle, and ellipse commands (variable sizes), either solid or outlined
- Multiple fill commands
- Color gradation within a selected area
- Special brush commands to allow 4-way symmetry drawing and other effects
- Easy saving and retrieving of images

- Powerful move, copy, and duplication commands
- Image zoom which can double or halve an image horizontally, vertically, or both
- Perspective and rotation of the image or portion of it
- Adjustable grid and gravity lines
- Variable scaling of the image in both the horizontal and vertical dimensions
- Ability to create, save, and utilize multiple color palettes
- Antialiasing of circles, lines, ellipses, and characters
- Color mixing
- Easy creation of a library of custom or commonly used images, such as logos

Lumena Fonts and Layout:

- 11 different built-in character styles
- Antialiasing of characters command
- Variable drop or solid shadows in any direction
- Adjustable italics
- Adjustable sizes up to one-quarter of the screen
- Outlining of characters
- 16 on-screen character colors selected from 512 colors
- Adjustable baseline
- Adjustable line and character spacing
- Easy positioning of characters
- Ability to easily move characters or words after they have been placed
- Custom font creation capability
- Multiple layout options
- Easy access to Lumena paint, animation, and video features
- Easy integration of characters with images

Lumena Animation:

- Multiple color cycle palette animation options
    - ---8 speeds
    - ---8 sizes of brushes, lines, and orthogonals
    - ---Easy creation capability to show flow, or create billboard effects
- Multiple real-time cell animation capabilities
    - ---Easy cell creation capability
    - ---Variable and user defined animation paths
    - ---Preview modes
    - ---8 speeds
    - ---Reverse option
- Special effects
    - ---Spins
    - ---Zooms
    - ---In-betweening
    - ---Multiple speeds and paths
    - ---Automatic cell creation
- Transitions
    - ---8 speeds
    - ---Wipes (both horizontal and vertical)

```
                        ---Falls
                        ---Blinds (both horizontal and vertical)
                        ---Multiple spiral and expanding or shrinking square
                           effects
                        ---Cuts
                        ---Easy positioning and preview
             ● Editing Flexibility
                        ---Scroll animation sequence list
                        ---Delete or insert sequences
                        ---Real-time playback of animation sequences
                        ---Change the order of individual animation events
                        ---Easy storage and loading capability
                        ---Short-cut means to load in sequences off of disk
                        ---Change the speed of the entire sequence or individual
                           animation events
```

Lumena Video:

Lumena Video enables you to combine graphics, text, and animation created with any of the other Lumena series programs (i.e. Paint, Fonts & Layout, and Animation) with any external video source. The program should be used with the Mindset Video Production Module (M1011). All Lumena commands function as usual with Lumena Video.

- Individual colors can be selected as either transparent (i.e. allowing the video image to show through) or opaque (up to sixteen at one time)
- Ability to paint with a transparent brush or have transparent characters with a solid outline
- Mask effects
- Toggle "genlock" on or off

RECOMMENDED CONFIGURATIONS:

Lumena Library works all Mindset systems provided they have dual disk drives and a minimum of 256K of RAM memory. Following are two sample system configurations:

```
SYSTEM #1
        M1000VS  Professional Video/Graphics System Unit
        M1004    Expansion Unit
        M1011    Video Production Module
        M3001    Mouse
        M4030    Lumena Library

SYSTEM #2
        M1000II  Advanced Professional Videographics System
        M1011    Video Production Module
        M3003A   Graphics Tablet
        M2002    RS232-C Module
        M4030    Lumena Library
        M4202    Video Animator Diskette
```