

# SuperChroma<sup>TM</sup>

State of the Art in Computer Color



*The most thoughtful minds are those  
which love colour the most.*

*John Ruskin, 1819-1900*

# Super Chroma

The SUPERCHROMA™ Color System from Computer Friends, gives your Macintosh full color capability, with all the performance, high resolution graphics and simplicity of use, which are inherent in the Macintosh. The SUPERCHROMA system consists of the COLOR MASTER™ Graphics Controller, a high resolution R.G.B. monitor, the COLORPAINT™ software package and the necessary cables to connect the system to the Macintosh computer. **No internal connection required.**

SUPERCHROMA adds color to your creativity. Are you an Artist, a Graphic Designer, a Doctor, a Business Executive, an Engineer, a Scientist, a Physician, a Student? Do you like the Macintosh? Now you can enhance, enliven and

enrich your graphics with professional color. You can obtain high quality prints and professional slides.

SUPERCHROMA is the electronic equivalent of the Artist's palette. Like the Artist, you can color each individual pixel to create the proverbial work of art. As there is no limit to your imagination, there is, virtually, no limit to your color choice. SUPERCHROMA provides 256 simultaneous colors from a palette of 262,144 colors. The SUPERCHROMA system displays 640 x 480 pixels, which provide greater resolution than the Macintosh. COLORPAINT™ is a comprehensive, general purpose, graphics programs. "Cut", "Copy", "Paste", "Fat Bits" (i.e. zooming) are all familiar words in the Macintosh "culture". They define the features which have made computer graphics the electronic equivalent of paper, pencil, erasing, cutting, pasting etc. You will find in SUPERCHROMA all these familiar

Macintosh features. You can create your on-screen palette, save it on disk with your picture or just save it as a palette for future use.

You can choose any two colors and let COLORPAINT shade between them, providing the intermediate colors and creating a dramatic, true-to-life effect. Or you can use the 3-D drawing tools and position up to 4 illumination sources on any one screen. With the power and flexibility of SUPERCHROMA, you can handle any graphic color task.

COLORPAINT has been developed using the RASCAL™ Development System, available to Software Developers. As this material is being printed, a range of new software is being developed for specialized applications, such as Business, Real Estate, Education, Games etc. Whatever the application, the results are spectacular. SUPERCHROMA gives you colors and details which seem to spring out from real life, not from a computer. What the Macintosh has done for microcomputing, SUPERCHROMA has done for color.



**Computer  
Friends, Inc.**



You can create spectacular, true-to-life color pictures, using the automating shading feature of Colorpaint and Omnipaint. The shadings in the body of the candle, the candle holder and the background were constructed automatically from two chosen "end" colors.

A new tool for the educator or lecturer. In this (first) digitized and (then) colored picture, each color can be individually controlled and altered with one command. Important details can be highlighted or enhanced either in illustrations or in live lectures.

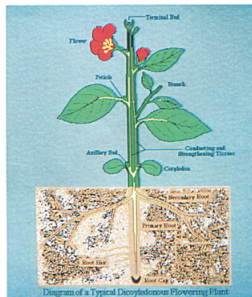
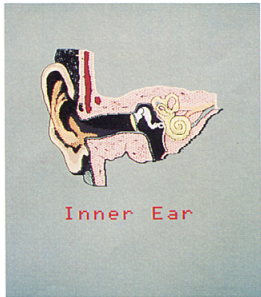


Illustration created from a digitized, black and white picture.

This picture was created directly on the Superschroma System, using a simple program



A blend of color and mathematics, made possible by the Rascal development system. In this user created application, the program calculates and colors the reflections of the pavement on the two brass balls.

You can create charts directly on the Color Display, or transfer them into Colorpaint or Omnipaint, from any business software program that creates MacPaint files.



## System Description and Components

SUPERCHROMA consists of the hardware and software required to provide a Color Video Display for the Macintosh. SUPERCHROMA includes the COLOR-PAINT software package. (The OMNIPAINTE software package may be substituted for COLOR-PAINT upon request).

### Hardware Components

- 1) COLOR MASTER™ Display Controller
- 2) High Resolution R.G.B. Color Terminal.
- 3) Cable from Macintosh serial port to ColorMaster.
- 4) Cable from ColorMaster to Color Terminal.

### Hardware Specifications

#### Resolution:

640 x 480 pixels

#### Colors

256 simultaneous colors, available from a palette of 262,144 colors.

### Video Output (from Color Master):

Red, Green, Blue, Horizontal Sync and Vertical Sync Outputs, (Sync Output also on green channel). Video Outputs are analog 1V p-p, RS-170A. Sync signals are 5 V p-p max (TTL compatible). DB-9 Female Connector.

### Serial Ports (on ColorMaster):

One for connection to the Macintosh.

One for connection to a color printer (i.e. Imagewriter II with 4 color ribbon cartridge). DB-9 Female Connectors.

## Software

Two comprehensive software packages are available for the Superchroma System: COLOR-PAINT™ and OMNIPAINTE™. Both programs are color extensions of MacPaint. If the user knows MacPaint, then he knows COLOR-PAINT or OMNIPAINTE. With COLORPAINT the on-screen menu occupies approximately 30% of the screen. With OMNIPAINTE the menu occupies a smaller area (15% of the screen). This menu can be repositioned or eliminated, so that the full screen can be occupied by the picture. Many new, specialized applications are under development. SUPERCHROMA users will be automatically informed of new software packages as they become available.

### Enhanced Video Option:

The Enhanced Video Option allows the creation of a multitude of visual effects. The Enhanced Video Option adds the following features to the Superchroma System:

- "Gen-lock" to an external NTSC or PAL video signal. The "gen-lock" feature is designed to track VCR signal variations.
- Composite Video Output (NTSC or PAL), in addition to the standard RGB outputs. The RGB output remains unchanged.
- Live Video Overlay. The Superchroma output overlays the live, external video input. The Superchroma display becomes the foreground image and the external video becomes the background image.

- "Chroma Key". A selectable color on the color terminal display can be used to open a "window" through which the external video input shows through. The transparent color value can be changed quickly, creating a powerful, dynamic effect.
- FREEZE-FRAME. Digitization of the external video signal in real time, at true screen resolution. The frame can then be saved, as is, as a COLORPAINT or OMNIPAINTE file, or it can be modified, colored, or text can be added to it, before saving or printing.

To illustrate the flexibility of the Enhanced Video Option, the user will be able—for example—to capture (i.e. FREEZE-FRAME) the image of a house, using an external video source. The windows and doors of the house can then be filled with different solid colors. Using the chroma key feature, each of the doors and windows can be filled with a live video image. Titles and other artwork can also be added.

### Color Hard Copy Option

- 1) Color printer, including Imagewriter II with 4 color, ribbon cartridge option.
- 2) Color Video Hardcopy Unit (i.e. Polaroid Palette, Seiko RGB printer etc.)

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