

# AppleColor RGB Monitor Overview



## Overview

The AppleColor™ RGB Monitor is the recommended color monitor for the Apple IIgs® personal computer, because it takes full advantage of the computer's advanced graphics capabilities.

Working with the high-resolution graphics modes of the Apple IIgs, the AppleColor RGB Monitor brings you stunning graphics in up to 256 colors at a time from a palette of 4,096 colors. For text-intensive applications, it can also display crisp, clear 80-column text on its 12-inch screen, so you'll need just one monitor for all your Apple IIgs applications.

## Features

- High-resolution 12-inch analog RGB color
- Color or monochrome 80-column text
- Direct connection to the computer

## Benefits

- Displays any of the 4,096 colors generated by the Apple IIgs
- Provides higher resolution than composite (NTSC) color monitors, for sharp images across the full range of colors.
- Produces crisp text as well as graphics, so you don't need separate monitors to get the most from all your applications.
- Plugs directly into the RGB video output of the Apple IIgs; no adapters are required.



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## Product Details

### RGB Video

The AppleColor RGB Monitor uses the RGB (red-green-blue) color standard, instead of the composite standard used in color television sets and most computer monitors.

Composite color combines all the video information coming from the computer. By contrast, the RGB standard uses separate signals for the three primary colors used in color video, so it can convey more information and produce higher-resolution images on the screen.

Additionally, the AppleColor RGB Monitor is an analog RGB device, so it provides a much wider range of colors than is possible with digital (TTL) RGB displays.

## System Requirements

To use the AppleColor RGB Monitor, you'll need an Apple IIgs personal computer.

## Technical Specifications

### Picture tube

- 12-inch diagonal (11.5-inch viewable area)
- High-contrast black matrix

### Display capabilities

- 640 dots horizontally by 200 dots vertically (when used with the Apple IIgs)

### Dot pitch

- 0.37-millimeter tri-dot pattern

### Active display area

- 200 millimeters horizontal by 150 millimeters vertical (remainder of display area is used for border)

### Interface

- 15-pin D-style connector
- Direct connection to Apple IIgs via supplied cable; no adapter required

### Input synchronization signal

- Composite vertical (field) and horizontal (line) pulses negative going, 3.0 volts (minimum) peak-to-peak into a 2,200-ohm termination

### Input video signal

- Composite video signal, 1.0 ( $\pm 0.1$ ) volt peak-to-peak negative, into 75-ohm termination

### Video bandwidth

- Flat within 1.5 decibels to 6.5 megahertz
- Less than 3 decibels down at 8 megahertz

### Scan rates

- 15.7 kilohertz horizontal
- 60 hertz vertical

### Text display mode

- Up to 80 characters by 25 lines

### Controls

- Side
- Power on/off
- Contrast

—Brightness

- Rear
- Horizontal hold
- Vertical hold
- Height

### Electrical requirements

- Line voltage: 108 to 132 volts AC
- Frequency: 50 to 60 hertz
- Power consumption
- Typical: less than 65 watts
- Maximum: 90 watts

### Environmental requirements

- Operating temperature: 32° to 122° F (0° to 50° C)
- Maximum humidity: 90%
- Maximum altitude: 10,000 ft. (3,048 m)

### Size and weight

- Height: 11 in. (27.9 cm)
- Width: 13.5 in. (34.3 cm)
- Depth: 16 in. (40.6 cm)
- Weight: 27.6lb. (12.5 kg)

## Ordering Information

AppleColor RGB Monitor

Order No. A2M6014

With your order, you'll receive the following:

- AppleColor RGB Monitor
- Owner's guide
- Video cable
- Limited warranty statement