



# Tech Info Library

## Apple II Monochrome Monitors: Specifications (Discontinued)

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Security: Everyone

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TOPIC -----

This article describes two Apple II Monochrome Monitors:

- the Apple Monochrome Monitor (for the Apple IIGS, Apple IIc Plus, or Apple IIc)
- the Apple Monochrome Monitor IIe (for the Apple IIe, Apple II Plus, or Apple II)

DISCUSSION -----

Both these monitors display crisp, easy-to-read text and sharp graphics. Their 12 inch high-resolution antiglare screens are easy on your eyes, making them the low-cost displays of choice for text-based applications and other applications that don't require color.

System Requirements

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- To use an Apple Monochrome Monitor IIe, you need an Apple IIe, Apple II Plus, or Apple II personal computer.
  - To use an Apple Monochrome monitor, you need an Apple IIGS, Apple IIc Plus, or Apple IIc personal computer. If you have an Apple IIc Plus or Apple IIc, you may also wish to purchase an Apple Monitor Stand.

Picture Tube

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- Apple Monochrome Monitor IIe  
12 inches (30.5 centimeters) diagonal  
High-contrast  
Antiglare  
90 degrees diagonal deflection  
Green Phosphor (EIA Type P31)

- Apple Monochrome Monitor  
12 inches (30.5 centimeters) diagonal  
High-contrast  
Antiglare  
90 degrees diagonal deflection  
White Phosphor (EIA Type P4)

#### Active Display Area

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- both monitors:  
215mm horizontal by 160mm vertical (remainder of area is used for border)

#### Scanning

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- both monitors:  
EIA standard: 525 lines; 30 frames, 60 fields/second; overscan

#### Scan Rates

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- both monitors:  
Horizontal: 15.7 kilohertz  
Vertical: 59.9 hertz

#### Input Signal

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- both monitors:  
Composite video, 1.0 ( $\pm 0.1$ ) volts peak-to-peak, negative sync

#### Video Bandwidth

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- both monitors:  
Less than 3 decibels down at 10 megahertz

#### Display Capability

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- Apple Monochrome Monitor IIe  
With Apple IIe: 560 dots horizontally by 192 dots vertically
- Apple Monochrome Monitor  
With Apple IIc Plus or Apple IIc: 560 dots horiz. by 192 dots vert.  
With Apple IIGS: 640 dots horizontally by 200 dots vertically

#### Text display

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- both monitors: up to 80 columns by 25 lines

#### Horizontal linearity

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- both monitors: less than 10%

#### Vertical linearity

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- both monitors: less than 7%

#### Video Input Connector

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- both monitors: RCA-style phone jack (75 ohm)

#### Controls

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- Apple Monochrome Monitor IIe  
Front: power on/off, contrast  
Rear: brightness, vertical hold, height
- Apple Monochrome Monitor  
Side: power on/off, contrast  
Rear: brightness, vertical hold, vertical amplitude

#### Electrical Requirements

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- both monitors:  
Line voltage 108 to 132 volts AC  
Frequency 50 to 60 hertz  
Power consumption  
    Typically less than 20 watts  
    Maximum 45 watts

#### Environmental requirements

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- Apple Monochrome Monitor IIe  
Operating temperature: 41 to 104 degrees F (5 to 40 degrees C)  
Maximum humidity: 90%  
Altitude: 0 to 10,000 ft. (0 to 3,048 m)
- Apple Monochrome Monitor  
Operating temperature: 32 to 122 degrees F (0 to 5 degrees C)  
Maximum humidity: 90%  
Altitude: 0 to 10,000 ft. (0 to 3,048 m)

#### Dimensions

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- Apple Monochrome Monitor IIe  
Height: 10.63 in. (27.0 cm)  
Width: 14.56 in. (37.0 cm)  
Depth: 12.50 in (31.8 cm)  
Weight: 18 lbs. (8.16 kg)
- Apple Monochrome Monitor  
Height: 10 in. (25.5 cm)  
Width: 12.3 in. (31.0 cm)  
Depth: 14.3 in (37.5 cm)  
Weight: 18 lbs. (8.16 kg)

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