# Tech Info Library

## 12-inch Mono Display: Specs & Pin Assignments (Discon 10/93)

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Revised:        10/21/93
Security:       Everyone
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This article last reviewed: 16 October 1990

TOPIC -----------------------------------------------------------

This article gives the specifications for the Apple Macintosh 12-inch
Monochrome Display, along with pin assignments for the input signal jack.

DISCUSSION ------------------------------------------------------

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Picture Tube            12-inch (30.5 cm) diagonal
                        Combination phosphor EIA Type P104 and P193 (white)
                        High-contrast antiglare

Input Signal            Video:  RS-343 standard
                        Sync:   Separate sync, negative
                                going, TTL

User Controls           Power Switch (back panel)
                        Brightness, with detent reference (right side)
                        Contrast (right side)

Scanning Frequencies    Macintosh II mode:
                        Horizontal  35.0 kHz
                        Vertical    66.7 Hz
                        Dot Clock   30.24 MHz

                        Macintosh LC mode:
                        Horizontal  34.975 kHz
                        Vertical    66.7 Hz
                        Dot Clock   31.91 MHz

Resolution              640 (H) dots by 480 (V) lines

Active Video            Adjusted at the factory to produce an
Display Area            active video area of 8.35-inch (212 mm) horizontal
                        by 6.26-inch (159 mm) vertical. The remainder of
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the screen is used for the dark border around
the display.

Size                    Height: 12.2 inches (31.0 cm)
                        Width:  14.4 inches (36.5 cm)
                        Depth:  10.2 inches (25.9 cm)

Weight                  16 lbs (7.3 kg)

Power Requirements      30 watts maximum, all line conditions

Input Voltage           Operating range  90 to 132 and 190 to 270 Vrms,
                        Frequency        50-60 Hz

Operating Ambient       50 degrees F to 104 degrees F
Temperature             (10 degrees C to 40 degrees C)

Operating Humidity      95% maximum, non-condensing

Operating Altitude      10,000 feet (3,000 m) maximum

Fuse Protection         The monitor contains internal power line
                        fuse protection. This fuse should be
                        replaced with the same type by a qualified
                        service technician.

DB-15 Style Connector Pin-outs
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     Pin     Function
      1      (not used)
      2      (not used)
      3      Composite H and V TTL sync
      4      ID bit 1 - Grounded
      5      B/W Video
      6      B/W Video return
      7      ID bit 2 - open
      8      (not used)
      9      (not used)
     10      ID bit 3 - open
     11      Csync return
     12      (not used)
     13      (not used)
     14      (not used)
     15      (not used)
   Shell     Shield ground

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