## Power Macintosh: New Monitor Port Uses HDI-45 Socket (7/95)

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

This article describes:

• HDI-45 socket on all Power Macintosh computers

• Monitors supported through the HDI-45 socket

• DRAM supported video when using this port

• Adapter cable needed for monitors with a DB-15 plug.

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

AllPower Macintosh 6100, 7100, 8100 computers have an HDI-45 monitor socket
located on the back panel.  The Power Macintosh 7100, 8100, and all designated
AV models also provide a DB-15 monitor socket.  In addition to the Apple
AudioVision 14 monitor, the HDI-45 interface supports these other monitors when
used with the HDI-45 Adaptor cable:

| Monitor | Size (pixels) | Color depth (bits) |
| ------- | ------------- | ------------------ |
| 12-inch RGB | 512 by 384 | 16 |
| 14-inch RGB | 640 by 480 | 16 |
| 15-inch portrait | 640 by 870 | 8 |
| 15-inch Multi-Scan | 640 by 480 | 16 |
| 15-inch Multi-Scan | 832 by 624 | 8 |
| 16-inch RGB | 832 by 624 | 8 |
| 17-inch Multi-Scan | 640 by 480 | 16 |
| 17-inch Multi-Scan | 832 by 624 | 8 |
| 20-inch Multi-Scan | 640 by 480 | 16 |
| 20-inch Multi-Scan | 832 by 624 | 8 |
| 16-inch RGB | 832 by 624 | 8 |
| VGA | 640 by 480 | 8 |

Note:
Built-in video (HDI-45 with 640K DRAM support) doesn't support any monitor with
a resolution greater than 832 by 624.  To use a larger monitor (19-inch,
20-inch, or 21-inch) at these higher resolutions, a third-party video card or

the AV card must be used.

When using the HDI-45 connector, frame buffering for monitor support is provided
through a 640K DRAM space.  There is no dedicated VRAM when using this port.

A video adapter cable (Part #M2681LL/A) is needed to connect a monitor with a
DB-15 connector to a HDI-45 built-in port.  This cable comes standard with every
Power Macintosh 6100, and is offered as an option for the Power Macintosh
6100AV.  With the Power Macintosh 7100, 8100, or AV models, the adapter cable is
offered as an option to connect an additional display (other than the Apple
AudioVision 14) to your computer.


Article Change History:
10 Jul 1995 - Added information on Multiple Scan Displays.
09 Jan 1995 - Excluded speed from Power Macintosh model numbers.

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