



# Tech Info Library

## Display Card 8•24: How to output NTSC without a converter

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TOPIC -----

Can the Macintosh Display Card 8•24 be used to display images from the Macintosh on a video display or a TV without an NTSC converter?

DISCUSSION -----

The Display Cards 8•24 and 8•24 GC do not use software for switching to the NTSC interlaced mode. To put the Display Card 8•24 into the NTSC mode, a properly configured cable is all that is required. Most NTSC devices use an RCA-type phono-connector, so this diagram uses that as a reference point.

Adjust the phono-connector side to whatever type of connector is used. "Tip" is the pin in the center of the connector (the signal); the sleeve is flanged around the outer edges of the connector (the chassis ground).

Card Connector	RCA-Type Phono-Connector
-----	-----
4      MON.ID1    (sense0) --	
7      MON.ID2    (sense1) --	
11     C&VSYNC.GND -----	
5      GRN.VID    -----> Tip (signal)	
Shell  CHASSIS.GND -----> Sleeve (ground)	

By grounding pin 4 and pin 7 to pin 11, the video cards are told that an interlaced (NTSC) monitor is attached. The actual black and white video signal is on pin 5 and connects to the center (Tip) of the phono-plug. The shell of the card connector connects to the sleeve of the phono-plug.

To acquire a color NTSC signal from any Apple Macintosh display card, an RGB-to-NTSC converter is required.

For more information, search under "NTSC video encoding".

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