



# Tech Info Library

## Newton MessagePad Family: Comparison to other Models (5/94)

Revised: 5/17/94  
Security: Everyone

Newton MessagePad Family: Comparison to other Models (5/94)

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TOPIC -----

The following discusses the differences between the original Newton MessagePad and the Newton MessagePad 110.

DISCUSSION -----

### TECHNICAL COMPARISON

	MessagePad 110 -----	MessagePad 100 -----
Power Supply	4 Type AA batteries	4 Type AAA batteries
Average User Battery Life		
- Alkaline Batteries	40-50 hours*	10-28 hours*
- NICD Batteries	15-20 hours*	4-12 hours*
Enclosure	Flip-open cover	Carrying case
RAM/User Space	1024K/480K	640K/150K
Screen Size (pixels)	240 x 320	240 x 336
Pen	Telescopic round	Flat
Size	8"x4"x1.25"	7.25"x4.5"x0.75"
Weight (with batteries)	1.28 pounds	0.9 pounds
Infrared Transfer rate	up to 38.4 kbps**	up to 38.4 kbps**

\* battery life is estimated  
\*\* at 1 meter

### FEATURES OF MESSAGEPAD 110

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## New Industrial Design

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The MessagePad 110 is a completely new industrial design that reflects Apple's commitment to user-centered designs. The new MessagePad is slightly longer and narrower than the original to accommodate a better grip. It also includes a flip-top cover that folds out of the way when in use, and flips closed to protect the MessagePad's screen when the Newton is off or charging.

## Memory

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The memory on the MessagePad 110 has been expanded to 1MB with about 480K available for user storage which is 3 times greater than the original MessagePad. Users should expect to be able to store about 600 recognized notes, 750 names, 1,500 appointments and 100 notes in digital ink.

## Battery Life

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The MessagePad 110's design accommodates AA type batteries which increase battery life to up to 50 hours of use when using alkaline batteries and up to 20 hours when using NICD batteries. The implementation of type AA batteries also bring the MessagePad 110 into a range of common electronic devices that use those size batteries. With the optional MessagePad 110 Recharger, the Newton can recharge a battery pack in about 2 hours.

## Screen and Stylus

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The MessagePad 110's screen is 16 pixels shorter than the original MessagePad. Software titles which were written to adjust to variable screen sizes should not experience any trouble when used on the MessagePad 110. Titles which do not adjust to variable screen sizes may not work properly with the MessagePad 110. A new, round stylus is also included which may make writing more comfortable for some users.

## Manual and Video

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A revised manual and video is included for all MessagePad 110 customers.

## Improved Recognition Capabilities

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The Newton Intelligence Operating System included in the MessagePad 110 ROM supports two new features which enhance handwriting recognition. An improved letter-by-letter recognition feature allows users to write words that are not in Newton's dictionary yet Newton will recognize them. Another new feature called deferred recognition allows users to take notes in digital ink and return to the note and recognize them later. Newton users now also have the option of adding the names, street names, and cities they enter the Names application to Newton's dictionary.

Compatibility

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The MessagePad 110 can share data with any other device based on Newton Intelligence, including the original MessagePad. Applications written for the Newton OS which adjust for variable screen sizes are compatible with the 110. Those which do not adjust for variable screen sizes may not work properly.

Article Change History:

17 May 1994 - Corrected battery life information and corrected size and weight.

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