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
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                           MessagePad 110          MessagePad 100
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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
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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

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

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

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

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

Improved Recognition Capabilities

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

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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