consumers COMPUTERS GENERATION OF HAND-HELD ≯ ¤ Z JHL

By James Kim USA TODAY

They're back. They're betcomputers soon be found in evter. But will hand-held ery briefcase or purse?

Newton MessagePad 110 should be in stores soon. **NEWTON REDUX:** Apple's

NEWTON

Price: \$599. The new Newton features better com-

munication ability, and reduced reliance on hand-writing recognition than its Apple also will start resell-ing the original Newton some may want it for nos-algic value — for \$499.

lopped last year. In April,

predecessor,

 broadly known as personal digital assistants — is begin-ning to hit the market. They A new crop of these devices will likely sell better than their much-maligned predecessors. Don't bet on it.

nounce Envoy, which will go on sale this summer. The Si-Motorola will anply later this month. Sony is reportedly going to announce its will be available in limited supyou thought Apple mon, from IBM and BellSouth entry within months. Coday, And if

bled launch last summer, guess again. Apple started selling a Computer's heavily criticized Newton was dead after a trounew Newton - the Message Pad 110 - Friday.

"We really listened to our This time around, you'll be hearing less hype about how these devices will magically orcustomers," says Gaston Bastiaens, an Apple vice president ganize your hectic day and revolutionize mobile computing by reading your handwriting and running sophisticated software programs.

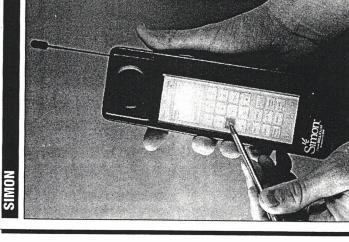
The Envoy "isn't going to be an instant hit. (Sales) are going tor of strategic planning for BellSouth Cellular, says he'll be happy if he can sell 50,000 Simons the first year. The first be slow," concedes Pat Richardson, vice president of Motorola. Dan Norman, direc-Newton sold that many in a few months and was consid-

▶ Communications. The The new PDAs are im proved in key areas: ered a flop.

first generation's communica-tion ability was weak — a fatal flaw. Consumer surveys show "communications has to be the core," says Ira Brodsky, presi-dent of Datacomm Research of Wilmette, Ill. lar phone, so you can talk to others. It also lets you send and receive faxes, computer data electronic mail

The Simon contains a cellu-

Neither Envoy nor Newton allows voice communication.



ADDING ITS VOICE: The Simon, designed by IBM and sold by BellSouth, will be available late this month in areas served by BellSouth. It goes on sale nationwide next month. It features a cellular phone. Price: \$899.

But the Envoy offers a builtin modem to send and receive computer data. "Its communiconsultant Andy Seybold, who cation features are elegantly rates Envoy above Newton. done," says Santa Clara,

a card, slightly bigger than a credit card, that turns the decontains a modem that allows you to send but not receive vice into a pager. Another card faxes. Apple plans to sell another card this year that will improve Newton's ability to send Newton allows you to insert

first generation.

and receive messages.

• Reduced emphasis on agree that handwriting recognition — a feature that translates what you print or write on writing recognition. Experts

the screen into typewritten words and numbers - is not a Envoy nor Simon can Apple has taken steps to improve Newton's handwriting recognition — the bane of the critical consumer need. Neithough both can store or fax what you print or scribble on the screen. translate handwriting,

software developers.

▶ Other applications. The Envoy — based on software developed by General Magic

- will allow you to use an running this summer. The service will let you order clothes sages you when the item you want drops to the right price. AT&T wireless network called PersonaLink, expected to be or airline tickets - even mes-

43 93 ,94 ,95 ,96 ,81 2.7 1.5 PDAs in demand Demand for personal digital assistants, in millions of units: 0.25 0.5 0.75

grams, including games and business applications, will be month, and up to 100 more programs are being written by By Marty Baumann, USA TODAY Apple says 32 computer proavailable for Newton this

tasks. For example, chemical-company Monsanto has given Newtons to about 200 farmers. Apple is working with large corporations, which plan to disit to Monsanto, which uses it to develop agricultural chemical tribute Newtons for specific The farmers enter information about their crops and transmit

The Department of Defense will give Newtons to military doctors to record information concerning drug allergies and products.

NEW ENTRY: Motorola's Envoy will go on sale this summer. It features two-way communications ability and a software system made by General Magic. Price: \$1,500.

Still, experts don't expect the devices to become must-own items for at least five years. That's one reason Compaq Computer has backed away ties hit the market buyers locate houses within a given price range — and alert the Newton's pager with a beep or flashing light when properillnesses. Apple has also developed a system to help home

stylus approach Critics pointed in questioning

Most PDAs come with a and recall - informastylus or pen used to enter tion in several ways:

▼You can write or print directly on the screen. Most ton tries to translate what you write or print into type-PDAs save that as is. New written letters or numbers.

► To call up, say, an address book, the user touches the tip of the pen to a screen icon - a tiny picture.

Using a stylus can be tedious:

which appears on the screen. Then, you tap-and-peck with the stylus — one To enter words, call up an electronic keyboard, letter at a time.

To enter a phone number, call up a numbers keyboard, and repeat the pro-

ly prefer using a keyboard and won't easily give it up. Andy Seybold, editor of Outlook on Mobile Comput-ing, says the pen-based apmay not last. Conthat techno-literate people vastsumer surveys show

the consumer market. Rumor has it that the next generation of Apple's Newton That's one reason why manag ing director at the Yankee Group, thinks PDAs as they exist will never take off in will rely on a keyboard. Howard Anderson,

Anderson says portable computers, which are fast shrinking to PDA-size and have easy-to-use keyboards, will eclipse PDAs.

the next generation of PDAs," he says. The next generation of "subnotebook" PCs "will be - James Kim from plans to launch a PDA.

"We want a product we can sell a bunch of," says Compaq's Bob Stearns, a vice president. "Right now, we don't know what that is."