

## News Release

### Waterloo Maple and Casio Announce New Windows CE Handheld PC for Educational Market

**Waterloo, ON - April 28, 1999** - Waterloo Maple Inc. and Casio, Inc. announced today the release of their new Handheld PC Windows CE devices, the CASSIOPEIA A-21S and A-22T "Computer Extenders".

These new educational handheld Windows CE devices combines the technology and resources of three world renowned educational software developers -Waterloo Maple, Key Curriculum Press, and Math Resources, Inc., making the new Casio "Computer Extender" an exciting learning tool for both teachers and students.



"We are excited by this opportunity to offer teachers an **affordable** and **portable** tool that will open up new worlds of teaching math and science," said Jim Gross, Director of Marketing of the Casio Education Division. "Casio has been working very closely with Professor John Kenelly, Alumni Distinguished Professor of Mathematics and Science, Clemson University along with Waterloo Maple, Key Curriculum Press, and Math Resources in getting this project off the ground. We are all delighted by the results and hope that we have made a significant contribution to the educational community in creating an innovative teaching and learning tool to develop math and science leaders for the new millenium," continued Gross.

"By exposing students to the academic standard of Maple V for university and colleges across North America, the Cassiopeia will provide a seamless transition into higher education for high school graduates", said Ian Suttie, President, Waterloo Maple Inc. "The Cassiopeia has the power of a PC that fits in your back pocket providing students with unlimited access to technology giving them the academic advantage.

" The CASSIOPEIA A-21S and A-22T"Computer Extender" products were developed for math teachers and students. Its built-in 640 x 240 display, featuring four shades of gray allows for easy viewing. The pen-touch sensitive screen is easy to use and the "Computer Extender" is equipped with a fast Hitachi SH-3 (80MHz) CPU.

The A-22T "**Computer Extender**" **Teacher/advanced Student Model** includes: 16MB of RAM, 2MB built-in Flash ROM, a CompactFlash memory expansion slot as well as PC card slot and built-in infrared port for easy wireless communications.

Waterloo Maple has developed a software system to work with the convenience and portability of Windows CE for exploring, learning and doing mathematics. This software will allow students to solve problems in algebra, trigonometry, analytic geometry, and calculus symbolically or numerically. Results can be graphed as 2-D or 3-D plots. A newly designed user interface allows teachers and students to adapt quickly to the power provided by Maple without the need to learn any command or programming language.

Maple for Windows CE comes with many of the problem-solving routines of Maple V that have made this program the most widely adopted mathematics program for desktop PCs at colleges

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and universities worldwide. Maple has simplified and streamlined this software to match the needs of high school and college students.

Maple for Windows CE represents the next generation of tools for mathematics education with which students can experiment and learn, anytime and anywhere. Unlike other graphing calculators, the functionality of Maple for Windows CE can be expanded easily. New pedagogic materials and Maple code developed by educators using Maple V on a desktop PC can be easily added to Maple for Windows CE. It is a learning tool that can be expanded and transformed into a productivity tool as students move through the curriculum and then into the workplace.

Other software partners: A CASSIOPEIA incarnation of the award-winning Geometer's Sketchpad software from Key Curriculum Press, Sketchpad is designed for geometry - and algebra, trigonometry, calculus, art, science and more. Students build mathematical models with Sketchpad by drawing with the stylus, and then explore their properties dynamically by transforming their components.

The Math Resource's Graphing Calculator software provides two powerful tools for teaching and learning. This fusion of technologies provides the functionality of a graphing calculator, the portability of a graphing calculator and the flexibility of a computer.

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### **Model: A-21S Student Model**

**Display:** 640 x240 dots, FSTN LCD, 4 grayscale

**CPU:** Fast Hitachi SH-3 (80 MHz) CPU

**Memory:** 16 MB RAM; 2MB built-in Flash memory

**Interface:** RS 232c Connector (115.2kbps), data communication jack,

\*\*CompactFlash/ROM card slot, infrared port(IrDA compatible protocol)

**Battery Life:** Main Two AA size alkaline batteries: Approx. 25 hours

**Back up:** One CR2032 lithium battery: Approx. 5 years (when main batteries are replaced immediately after appearance of low battery message) or Approx. 3 weeks (when no power is supplied from the main batteries)

**Dimensions:** 1.1"H x 7.3" W x 3.7" D

**Weight:** 16.6 oz. Including batteries

*\*\* CompactFlash Connector that allows Geometer's Sketchpad, Maple and Math Resources Graphing Calculator Windows CE Software to run unit without taking up valuable RAM memory.*

### **Model: A-22T Teacher/Advanced Student Model**

**Display:** 640 x 240 dots, FSTN LCD, 4 grayscale

**CPU:** Fast Hitachi SH-3 (80 MHz) CPU

**Memory:** 16 MB built-in Flash memory

**Interface:** RS 232c Connector (115.2kbps), 3 Pin Serial Connector, PC card slot (PCMCIA), data communication jack, CompactFlash/ROM card slot, Infrared

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port (IrDA compatible protocol)

**Battery Life:** Main Two AA size alkaline batteries: approx. 23 hours

**Back up:** One CR 2032 lithium battery: Approx. 5 years (when main batteries are replaced immediately after appearance of low battery message) or Approx. 3 weeks (when no power is supplied from the main batteries)

**Dimensions:** 1.1"H x 7.3" W x 3.7" D

**Weight:** 16 oz. Including batteries

*\*\* CompactFlash Connector that allows Geometer's Sketchpad, Maple and Math Resources Graphing Calculator Windows CE Software to run unit without taking up valuable RAM memory.*

Casio, Inc., Dover, N.J., is the U.S. subsidiary of Casio Computer Co., Ltd., Tokyo, Japan. Casio, Inc., with sales over \$450-million, markets handheld personal computers, calculators, business organizers, watches, musical keyboards, audio and video products, electronic cash registers, digital cameras, printers and other consumer electronic products.



Contact:

**Darren McIntyre**

Business Development Manager

Maplesoft

Phone: (519) 747-2373

Fax: (519) 747-5284

E-mail: [dmcintyre@maplesoft.com](mailto:dmcintyre@maplesoft.com)