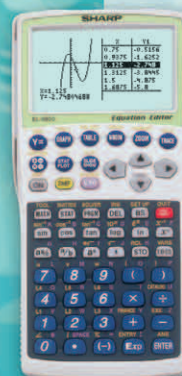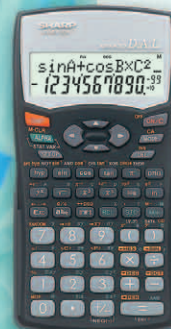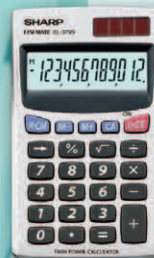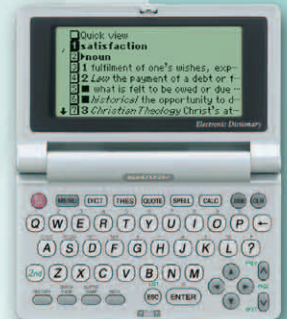# SHARP

2004–2005

ELECTRONIC DICTIONARIES, ELECTRONIC CALCULATORS, AND ORGANIZERS

Electronic Dictionaries
Electronic Organizers
Scientific Calculators
Printing Calculators
Super Check & Correct
Office Calculators
Personal Calculators

40th Anniversary
OF AN ORIGINAL
World's First
CALCULATOR

SHARP

http://sharp-world.com/calculator/
http://sharp-world.com/organizer/

SHARP

SHARP INNOVATIONS CONTINUALLY WRITE NEW CHAPTERS INTO THE PAGES OF HISTORY.

Forty years ago, SHARP gave the world its first electronic desktop calculator, now on display at the National Museum of Science & Industry as an innovative milestone. Succeeding generations carry on this trailblazing spirit, generating a remarkable stream of SHARP original creations.

1964

Development of the world's first electronic desktop calculator incorporating ICs.

World's 1st

▶ SHARP's History with Calculators and Organizers

1964   1969

1966   1973

World's 1st

Development and mass production of the world's first all-transistor desktop calculator.

World's 1st

Marketing of the world's first electronic calculator incorporating ELSIs.

World's 1st

Development and introduction of the world's first super-thin (1.6 mm) card-sized calculator.

SINCE THE INTRODUCTION OF THE FIRST ELECTRONIC DESKTOP CALCULATOR, SHARP HAS LED THE WAY IN THE FIELD OF CALCULATOR TECHNOLOGY. A HISTORY OF SUPERIOR ENGINEERING, ADVANCED FUNCTIONS, AND INNOVATIVE TECHNOLOGIES HAS MADE SHARP CALCULATORS AND ORGANIZERS THE CHOICE IN ALL FIELDS, THE WORLD OVER.

AND THIS YEAR, WE CELEBRATE 40 YEARS SINCE THE DEVELOPMENT OF ONE OF OUR MANY ORIGINAL CREATIONS: THE WORLD'S FIRST ALL-TRANSISTOR DESKTOP CALCULATOR.

Development of the world's first COS electronic LCD calculator.

World's 1st

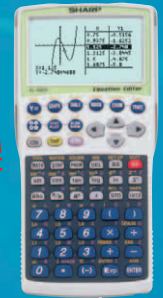Development and introduction of electronic organizer (Personal Information Tool).

Development and introduction of graphing calculator with a touch screen for educational market.

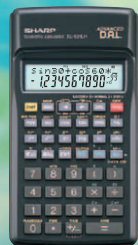Development and introduction of the world's first graphing calculator with a reversible keyboard.

World's 1st

1979

1988

1996

1997

2000

2002

2004

Development and introduction of scientific calculators with Advanced D.A.L. for educational market.

Development and introduction of electronic organizers with add-on software/contents.

40th Anniversary OF OUR ORIGINAL World's First SHARP

We've Got the Right Answer for You!

GUIDE TO SYMBOLS

BackLight — Display illuminates for easy use in dark or poor lighting conditions.

PC PIM Synchro — Synchronisation of your organizer and PC PIM data allows for easy one-step integration.

PC Link — Exchange data and files between your organizer and your PC with the optional PC-Link software.

Multi-Language — Displays information and guidance in one of several selectable languages. (See p.9.)

Telephone — The telephone file has a nameable directory. Stored telephone numbers are displayed with other information.

E-mail Address — The e-mail file has a nameable directory. Stored e-mail addresses are displayed with other information.

Web Address (URL) — Name, web address (URL) and remarks are stored for quick retrieval.

Calendar — The monthly calendar shows which days you have activities scheduled for each month, making long-term planning easy. (See p.9.)

Schedule — See the entire week's scheduled activities. Enter appointments by day.

Memo — The memo function is ideal for structuring and organising ideas within an overview of topics.

Anniversary — Enter important dates in the Anniversary mode.

Home/World Clock — The customisable clock displays home and world times, including daylight saving time (summer time) on a 12- or 24-hour basis.

Calculator/Conversion — The conversion mode lets you convert currencies or measurements by simply touching a button.

To Do — Store items and prioritise them on the To Do list.

Expense — Record financial transactions and view each type of payment and its total for every time period in the Expense mode.

Game — Built-in games turn the pocket databook into an entertainment centre.

Translator — English/Spanish word translator.

Spell Checker — Check the spelling of English words against suggested matches.

Diet — The Diet Function uses the built-in pedometer to keep track of calories burned. It also helps you to calculate your daily caloric intake.

Pen Touch Operation — Lets you conveniently select items from the menu screen.

REVERSIBLE KEYBOARD — Keys for basic functions are on one side, while keys for advanced functions are on the other. (See p.10.)

Equation Editor — Displays equations as they are written. (See p.11.)

Slide Show — Use slide shows to help demonstrate lessons. (See p.11.)

Hard Case — Durable hard case protects calculator from damage.

D.A.L. Direct Algebraic Logic — Features easy key-in for algebraic equations. (See p.14.)

2-Line Display — Allows users to check the equation and answer at the same time. (See p.14.)

Multi-Line Playback — Recalls any of the last 142 steps. (See p.14.)

Constant Calculation — Eliminates the need to re-enter the constant when doing repeated calculations. (See p.14.)

Chain Calculation — Allows the previous answer to be used in the next calculation. (See p.14.)

Numerical Derivative — Allows you to easily find the answer to derivative calculations. (See p.14.)

Numerical Integral — Allows you to easily find the answer to integral calculations. (See p.14.)

Formula Memory — Formulas or equations can be stored to simplify calculations. (See p.14.)

3-Digit Punctuation — For easier reading of long, multi-digit numbers, "," or " ' " is inserted for each group of three digits.

2-Key Roll-Over — Enables quick input of a keystroke, even if you still have a finger on the previous key.

Twin Power — Batteries provide back-up to solar power when light source is interrupted.

With Wallet — Includes handy wallet cover for extra protection and easy storage.

Large DISPLAY — Easy-to-read large digital display reduces eye strain, preventing errors.

GT FUNCTION — Automatically calculates the total sum of amounts generated.

Tilt Display — Adjustable angle for personal preference.

Slant Display — Fixed angle to ensure optimum readability.

Last Answer — Allows answer to be used in following equation.

KickStand — Raises calculator to an ideal operating angle for easier data entry.

Resume Function — Resumes operations after the Auto Power-Off Function has taken effect. (See p.21.)

Resume Plus Function — Resume Function plus Line Counter and Condition Symbol. (See p.21.)

Answer Check — An "OK" sign appears when the calculation being checked matches the result of the first. (See pp.18 & 21.)

AVG Average — Calculates average of inputted data.

±TAX Tax Calculation — Calculates prices with or without taxes. (See pp.18 & 21.)

DAY/DATE Day/Date Calculation — Determines the number of days and a specific date from inputted dates. (See p.21.)

2-COLOUR PRINT — Printed report is easy to read with red ink used for negative.

BackLight — Characters are illuminated for improved readability.

102-Step Memory — Recalls the last 102 actions performed. (See p.18.)

Auto Replay — Automatically reviews the entire calculation. (See p.18.)

Correct — Changes incorrectly inputted data. (See p.18.)

Insert — Inserts new data. (See p.18.)

Delete — Deletes unwanted data. (See p.18.)

Repeat — Enters the same values repeatedly. (See p.18.)

Change Calculation — Calculates the amount to be returned from a payment. (See p.18.)

3-Rate Converter — 3 rates can be converted easily with the touch of a button.

Rate Converter — Easy conversion of units such as currencies, based on an adjustable rate set by the user.

Easy Hold — Fits easily in the palm of your hand.

Cost Sell Margin — Quick and convenient calculation of cost, selling price and margins; ideal for business transactions.

Metric Converter — Easy conversion into and out of metric measurements with just the touch of a button.

BLUE Large DISPLAY — Easy-to-read large blue display.

Hard Cover — Comes with attached hard cover for extra protection and durability.

Plastic Buttons — Long-life plastic buttons.

3

CONTENTS

Electronic Dictionaries

P5 Electronic Dictionaries

Electronic Organizers

P7 Electronic Organizers

Scientific Calculators

Graphing
Standard
Programmable
Financial

P10 Scientific Calculators

Printing Calculators

Desktop
Semi-Desktop
Hand-Held

P15 Printing Calculators

Super Check & Correct

Semi-Desktop
Nice Size
Mini Nice Size

P17 Super Check & Correct

Office Calculators

Desktop/Semi-Desktop
Nice Size
Mini Nice Size

P19 Office Calculators

12/14 Digit Calculators

Nice Size
Mini Nice Size
Hand-Held/Hard Cover

P23 12/14 Digit Calculators

Personal Calculators

Wallet/Hand-Held
Hard Cover
Card

P24 Personal Calculators

4

ELECTRONIC DICTIONARIES

All the Word Power You Need
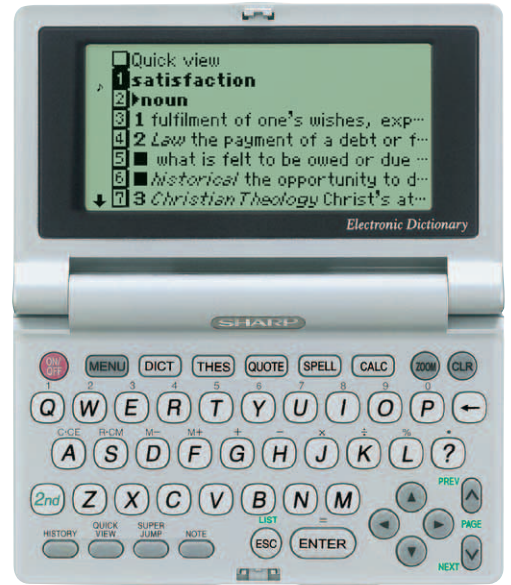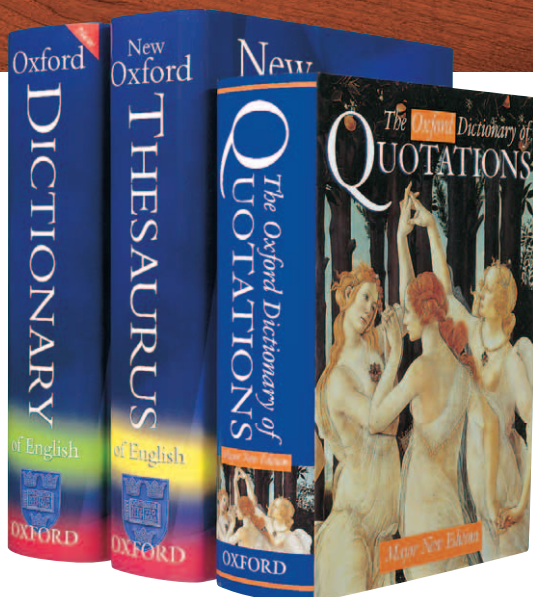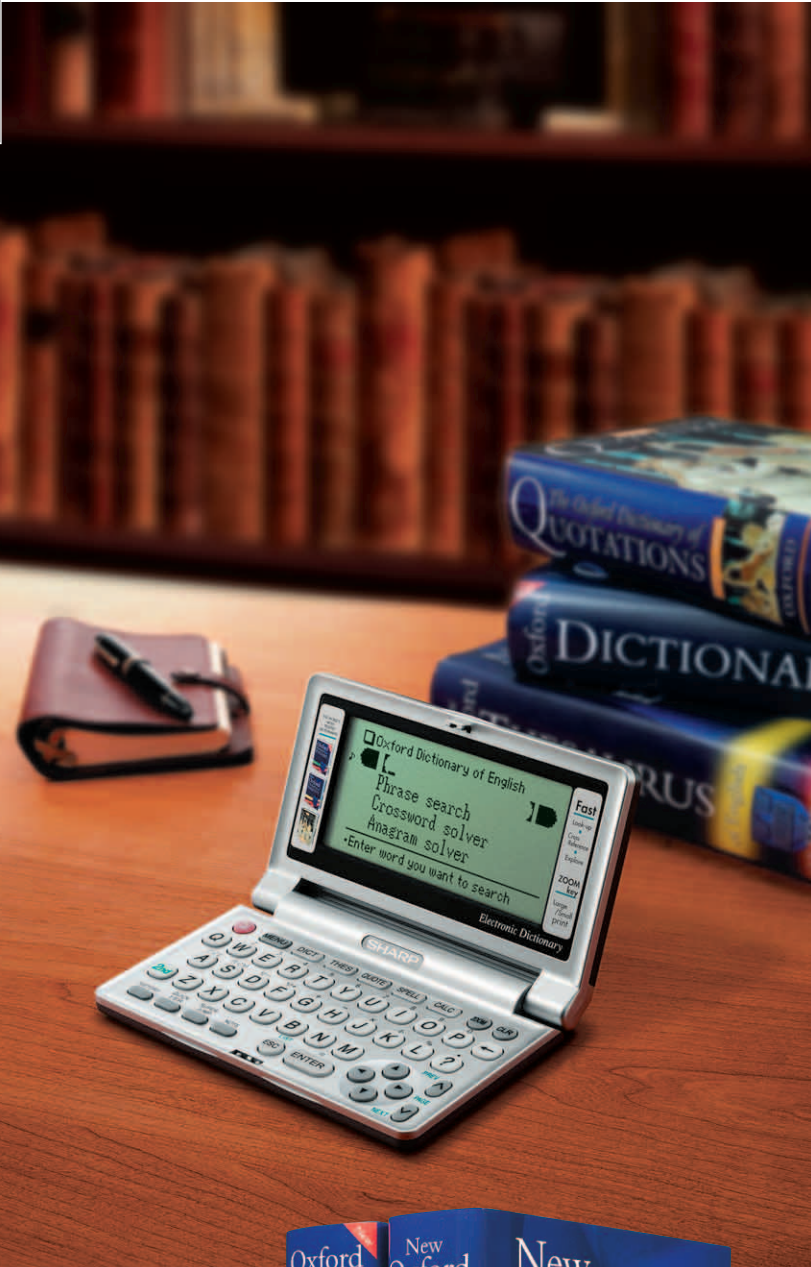
159 dots by 80 dots

NEW

PW-E500

- Power source: LR03 (AAA) x 1
- Dimensions: 125 (W) x 79.4 (D) x 16.8 (H) mm
  4-29/32" x 3-1/8" x 21/32"
- Weight: Approx. 148 g
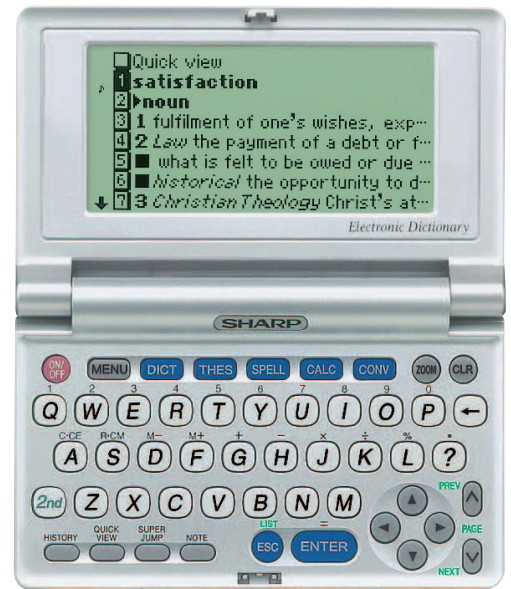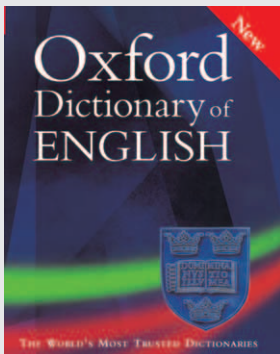
159 dots by 80 dots

NEW

PW-E300

- Power source: LR03 (AAA) x 1
- Dimensions: 125 (W) x 79.4 (D) x 16.8 (H) mm
  4-29/32" x 3-1/8" x 21/32"
- Weight: Approx. 148 g

Included Dictionaries

Oxford Dictionary of English

Based on Oxford's vast corpus of contemporary English, the *ODE* has been fully revised to give the most authoritative, up-to-date picture of English today. Comprising 355,000 words, phrases, and definitions — including 3,000 new words and senses, 73,000 scientific and technical words and senses, 68,000 examples, and 12,000 encyclopedic entries — the *ODE* puts a goldmine of knowledge at your fingertips.

New Oxford Thesaurus of English
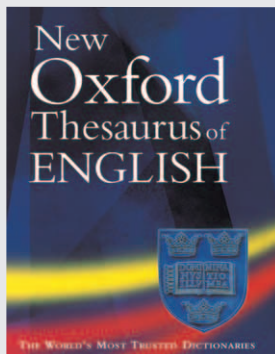
The *NOTE* presents 600,000 alternative and opposite words, with example phrases to convey meanings. Along with synonyms and antonyms, it also lists related words and provides explanations of often-confused words. A vital tool for all those who care about making their language more varied, interesting, and precise.

### The Oxford Dictionary of Quotations
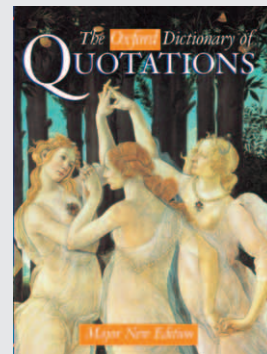
The *ODQ** is Oxford's largest quotations dictionary, with over 20,000 quotations from books, films, newspapers, and speeches. *The ODQ* contains comprehensively indexed quotations from around 3,000 historical figures, including authors, politicians, scientists, and artists. Whether you're writing an essay or preparing a speech or presentation, this is one resource you can't afford to be without.

* *The Oxford Dictionary of Quotations* is included in the PW-E500 model only.
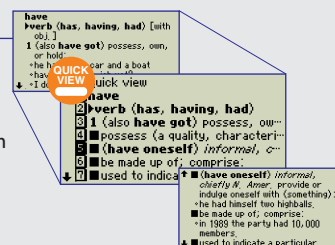
Convenient Functions

Filter Search

As you are typing in a word to search, a list of potential target words appears on-screen. You can find your target or compound word faster, with fewer keystrokes.
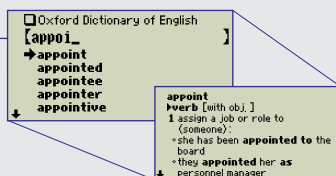
Quick View

Many dictionary entries have multiple definitions. The Quick View feature displays the first line of each definition, giving you an easy-to-browse summary.

Phrase Search

With the PW-E series e-dictionaries, you aren't limited to searching only for single-word entries. Using the Phrase Search, you can search for idioms and phrasal verbs by specifying up to three keywords.
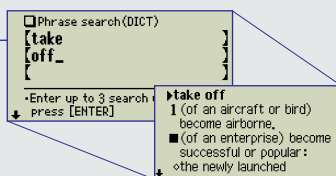
Zoom Key

With the Zoom key, you can maximise either readability or quantity of information on the display. A single keystroke changes the character size from the default 12-dot to 9-dot vertical pixel resolution.

Small font

Large font
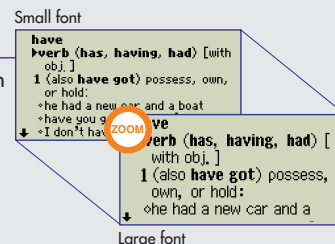
Super Jump

This function lets you jump directly from the definition of one word to the definition of another. Super Jump returns matching entries from both the *Oxford Dictionary of English* and *New Oxford Thesaurus of English* databases.
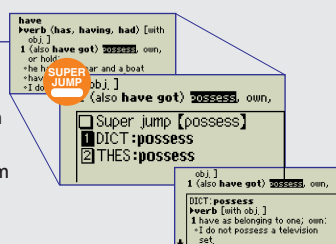
- • Crossword Solver
- • Anagram Solver
- • Spellcheck Function
- • Converter Function
- • History Function

6

ELECTRONIC ORGANIZERS

Flexible Organizers to Meet Your Day-to-Day Needs

80 dots by 111 dots

8MB Flash Memory

Microsoft® Outlook®* Synchronise Capability **NEW**

BackLight (Included)

Pen Touch

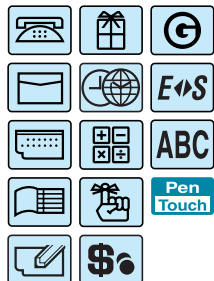Includes USB PC-Link cable and software**

English model only

ZQ-590A

- Power source: LR03 (AAA) x 1
- Dimensions: 70.8 (W) x 118 (D) x 13.5 (H) mm
  2-25/32″ x 4-21/32″ x 17/32″
- Weight: Approx. 115 g
- Microsoft® Outlook®* Synchronisation
- Microsoft® Outlook® E-mail Download***

* An English version of Microsoft® Outlook® 98/2000/2002/2003 must be installed to utilize the synchronisation software.
** The PC Software is intended to run on a PC with an English version of Microsoft® Windows® 98/98SE/2000 Professional/Me/XP Home/XP Professional.
*** File attachments cannot be downloaded. Text viewer only.
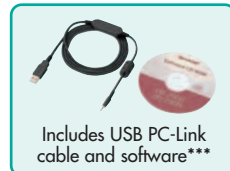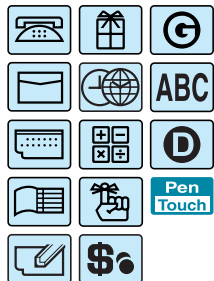

14-Column by 5-Line

1.5MB Equivalent **Flash Memory**

Microsoft® Outlook®* Synchronise Capability **NEW**

BackLight (Included)

Pen Touch

Includes USB PC-Link cable and software***

English model only

ZQ-290H

- Power source: CR2032 x 2 (Main/Backlight)
- Dimensions: 71.6 (W) x 112.5 (D) x 16.9 (H) mm
  2-13/16″ x 4-7/16″ x 21/32″
- Weight: Approx. 105 g
- Microsoft® Outlook®* Synchronisation

* An English version of Microsoft® Outlook® 98/2000/2002/2003 must be installed to utilize the synchronisation software.
** Memory at 1.5MB equivalent. Approx. 7,000 telephone names & numbers can be stored by using compression technology at a compression rate of approx. 1.5:1. (Names & numbers — including home, office, fax, and mobile — are 14 characters per entry, and addresses are 38 characters per entry.)
*** The PC Software is intended to run on a PC with an English version of Microsoft® Windows® 98/98SE/2000 Professional/Me/XP Home/XP Professional.
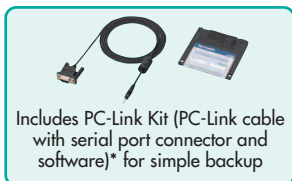
---

111 dots by 48 dots

256KB Flash Memory

BackLight

PC Link (Included PC-Link Kit)

Includes PC-Link Kit (PC-Link cable with serial port connector and software)* for simple backup

ZQ-270P

- Power source: CR2032 x 3
- Dimensions (closed): 154 (W) x 92.5 (D) x 13 (H) mm
  6-1/16″ x 3-21/32″ x 1/2″
- Weight: Approx. 125 g

* The PC-Link software is intended to run on a PC with an English version of Microsoft® Windows® 98/2000 Professional/Me.

19-Column by 5-Line

256KB

BackLight

PC Link (Included PC-Link Kit)

Includes PC-Link Kit (PC-Link cable with serial port connector and software)* for simple backup

ZQ-190P

- Power source: CR2032 x 2 (Main), CR2032 x 1 (Backup)
- Dimensions (closed): 148 (W) x 92 (D) x 13 (H) mm
  5-13/16″ x 3-5/8″ x 1/2″
- Weight: Approx. 125 g

* The PC-Link software is intended to run on a PC with an English version of Microsoft® Windows® 95/98/2000 Professional.

7

12-Column by 3-Line

1MB
Flash Memory

PC PIM Synchro

BackLight (Included)

Multi-Language

Microsoft® Outlook®* Synchronise Capability

NEW
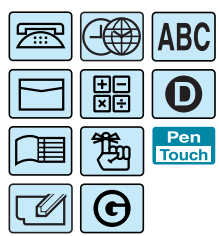
Includes PC-Link cable with serial port connector and software**

English model only

ZQ-P20H

• Power source: CR2032 x 2 (Main/Backlight)
• Dimensions: 69.8 (W) x 109.3 (D) x 16.3 (H) mm
  2-3/4" x 4-5/16" x 21/32"
• Weight: Approx. 104 g

* An English version of Microsoft® Outlook® 98/2000/2002/2003 must be installed to utilize the synchronisation software.
** The PC Software is intended to run on a PC with an English version of Microsoft® Windows® 98/98SE/2000 Professional/Me/XP Home/XP Professional.

12-Column by 3-Line

96KB Equivalent*

Multi-Language

Pen Touch

ZQ-P10

• Power source: CR2032 x 1
• Dimensions: 64 (W) x 97 (D) x 14.8 (H) mm
  2-17/32" x 3-13/16" x 19/32"
• Weight: Approx. 72 g

* Memory at 96KB Equivalent. Approx. 1,500 telephone names & numbers (name, telephone and fax number are 14 characters per entry) can be stored by using compression technology. (Compression Rate Approx. 1.5:1)

14-Column by 5-Line

256KB
Flash Memory

PC Link

BackLight (Included PC-Link Kit)

EL-6990P

• Power source:
  CR2032 x 1 (Main),
  CR2032 x 1 (Backlight)
• Dimensions (closed):
  143 (W) x 88 (D) x 13.3 (H) mm, 5-5/8" x 3-15/32" x 17/32"
• Weight: Approx. 111 g

Includes PC-Link Kit (PC-Link cable with serial port connector and software)* for simple backup

* The PC-Link software is intended to run on a PC with an English version of Microsoft® Windows® 98/98SE/2000 Professional/Me.

3-Line
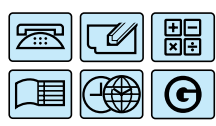## 12-Letter 24-Number

64KB

Multi-Language

EL-6910

• Power source: CR2032 x 1
• Dimensions (closed): 143 (W) x 88 (D) x 13.3 (H) mm
  5-5/8" x 3-15/32" x 17/32"
• Weight: Approx. 105 g

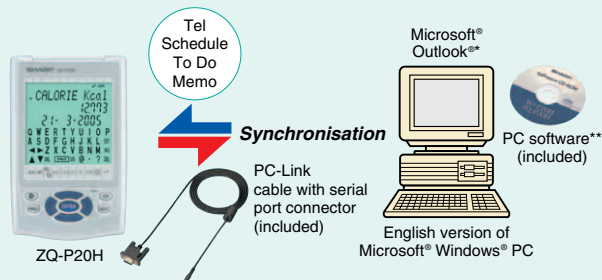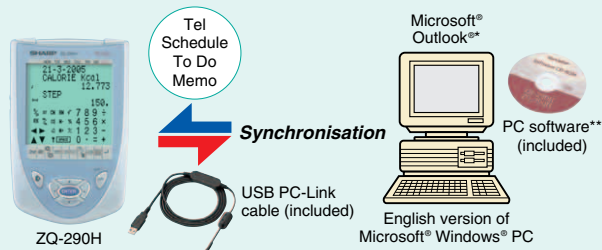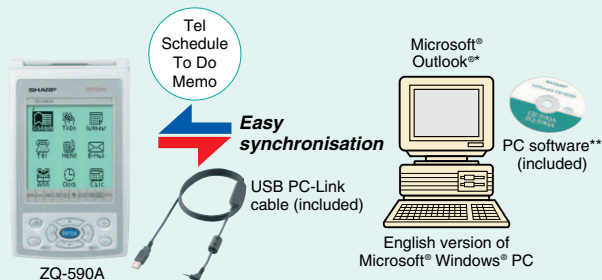## 3-Line
12-Letter 24-Number

8KB

Multi-Language

EL-6053S

• Power source: CR2025 x 1
• Dimensions (closed): 128 (W) x 86.6 (D) x 12.7 (H) mm
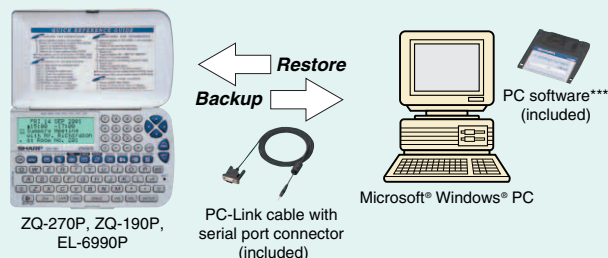 5-1/16" x 3-3/8" x 1/2"
• Weight: Approx. 87 g

Synchronise with Microsoft® Outlook®* (ZQ-590A, ZQ-290H, ZQ-P20H)

- **Synchronise contact information with your PC.**
- **Synchronisation of contact information is automatic when you connect the ZQ-590A to your PC.**

Tel
Schedule
To Do
Memo

Easy synchronisation

USB PC-Link cable (included)

ZQ-590A

Microsoft® Outlook®*

PC software** (included)

English version of Microsoft® Windows® PC

Tel
Schedule
To Do
Memo

Synchronisation

USB PC-Link cable (included)

ZQ-290H

Microsoft® Outlook®*

PC software** (included)

English version of Microsoft® Windows® PC

Tel
Schedule
To Do
Memo

Synchronisation

PC-Link cable with serial port connector (included)

ZQ-P20H

Microsoft® Outlook®*

PC software** (included)

English version of Microsoft® Windows® PC

Backup and Restore Data (ZQ-270P, ZQ-190P, EL-6990P)

- **Backup and restore data between your PC and organizer.**

Restore

Backup

PC software*** (included)

ZQ-270P, ZQ-190P, EL-6990P

PC-Link cable with serial port connector (included)

Microsoft® Windows® PC

⌨ Calendar Function (ZQ-590A, ZQ-290H, ZQ-270P, ZQ-190P, EL-6990P)

MON TUE WED THU FRI SAT SUN

4 - 2005

Schedule
To Do
Anniversary

* An English version of Microsoft® Outlook® 98/2000/2002/2003 must be installed to utilize the synchronisation software.
** The PC software is intended to run on a PC with an English version of Microsoft® Windows® 98/98SE/2000 Professional/Me/XP Home/XP Professional.
*** The PC-Link software is intended to run on a PC with an English version of the following software: Microsoft® Windows® 98/2000 Professional/Me (ZQ-270P); Microsoft® Windows® 95/98/2000 Professional (ZQ-190P); and Microsoft® Windows® 98/98SE/2000 Professional/Me (EL-6990P).

Multi-Language Guidance Message (ZQ-P20H, ZQ-P10, EL-6910, EL-6053S)

7-Language
(EL-6910, EL-6053S)

English, German, Spanish, French, Italian, Portuguese, Dutch

10-Language
(ZQ-P20H, ZQ-P10)

English, German, Spanish, French, Italian, Portuguese, Czech, Greek*, Hungarian, Polish

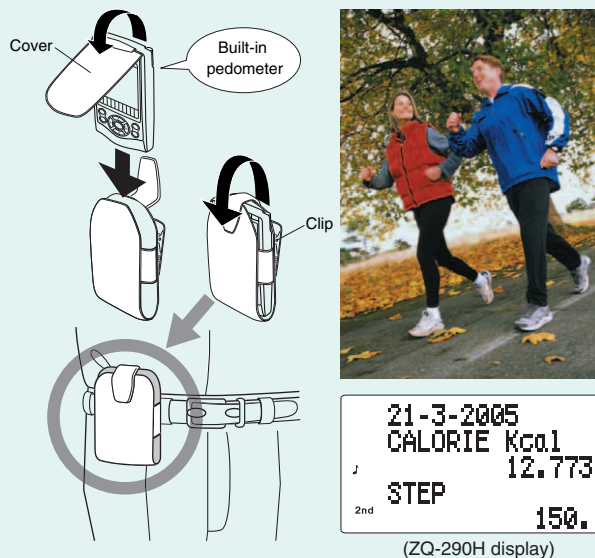* Only capitalized letters can be entered in Greek Mode.

Multiple Converter (All models)

Metric conversions and currency conversions are installed. Specified currencies and exchange rates can be customised.

(N.B. Number of conversion functions varies depending on the model.)

inch —> cm   2.54   ✓CAPS

EURO —> USD   199.99   ✓CAPS

oz —> g   28.3495   ✓CAPS

Diet Function (ZQ-290H, ZQ-P20H)

Cover

Built-in pedometer

Clip

21-3-2005
CALORIE Kcal
12.773
STEP
150.
2nd

(ZQ-290H display)

- **Use the built-in pedometer to keep track of calories burned by walking.**
- **Record and calculate your daily intake of calories and carbohydrates, along with other nutritional data, using the downloadable food database on the included CD-ROM.** (N.B. Only the ZQ-290H handles other nutritional data.)
- **Compare with previous records of calories taken in or burned.**

The unit may not count steps correctly if you:
- Walk at an irregular pace, or in a crowded place.
- Shuffle legs excessively.
- Wear sandals when walking.
- Vary your movement (play sports, for example).
- Move up/down excessively.
- Are in a vehicle with vertical and horizontal motions.
- Attach the unit improperly (tilted, for example).

9

Easy-to-Use, Advanced Features

GRAPHING

132 x 64 Dot Matrix
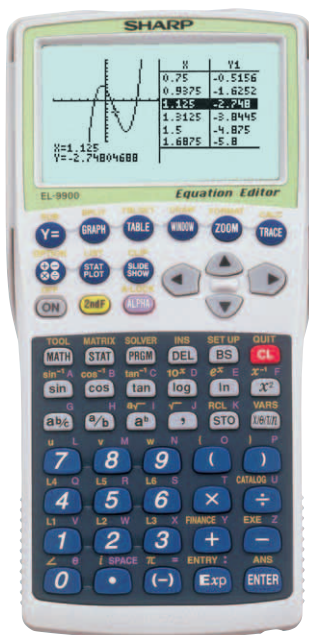
64KB

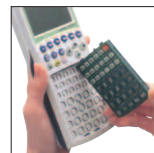**827 functions**

REVERSIBLE KEYBOARD

- *Reversible keyboard: basic & advanced*
- *Graphing capability*
- *Slide show feature*
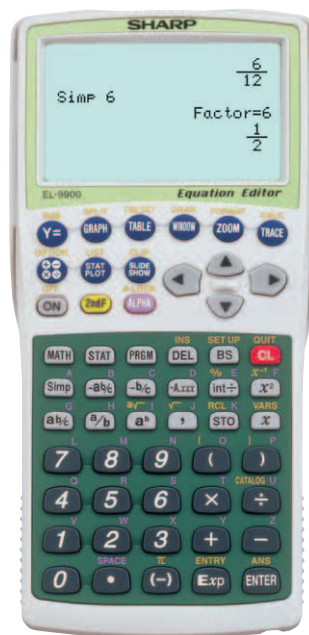- *Solver function*
- *Matrix function*

EL-9900

- Power source: R03 (AAA) x 4 (Main), CR2032 x 1 (Backup)
- Dimensions: 86 (W) x 183 (D) x 23 (H) mm
  3-3/8" x 7-7/32" x 29/32"
- Weight: Approx. 240 g

For Advanced Levels

Reversible Keyboard

For Basic Levels

Scientific Calculators

REVERSIBLE KEYBOARD

Reversible Keyboard

The Reversible Keyboard gives you a 2-in-1 Graphing Calculator. Keys for basic functions are on one side, while keys for advanced functions are on the other. Functions appearing on the menu display differ depending on which side of the keyboard is being used. The Reversible Keyboard saves you from having to get two separate models for different levels.

Advanced Keyboard Side

for use at high school level
(includes all the functions of the Basic Keyboard)

Examples of Functions

• Scientific Graphing •

Graphs can be drawn in one of 4 modes: by rectangular coordinates, by polar coordinates, by parameters, or by sequences. The Split Screen makes it easy to analyse the relationship between a graph and a table.

$Y1=X^3-3X^2-3X+3$
Y2=
Y3=
Y4=
Y5=
Y6=
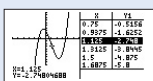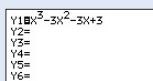
• Statistics/Regression •

Data can be easily input and revised in tabular form. You can also draw a variety of graphs, such as statistical graphs (9 types) and regression graphs (14 types), which are useful for analysing data.
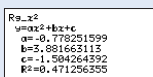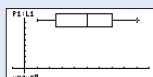
Statistical graphs
- Histogram
- Broken line plot
- Normal probability plot
- Normal distribution plot
- Box plot/Modified box plot
- Pie chart
- Scatter diagram
- XY line

Regression graphs
- Linear regression (ax+b & a+bx)
- Quadratic/Cubic/Quartic regression
- Natural/Common logarithm regression
- Exponential regression/ Euler exponential regression
- Reciprocal regression
- Power regression
- Med-Med regression
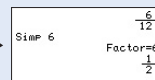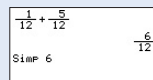- Logistic regression
- Sine regression

Basic Keyboard Side

for use at junior high school level
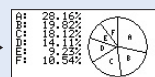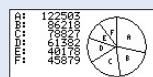
Examples of Functions

• Fraction Study •

Includes a function for simplifying fractions. Finds common divisor either automatically or manually, leading to more effective learning.
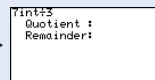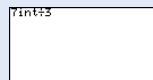
• Pie Chart •

Using a pie chart makes it easy to compare each part to the whole. The data can be displayed either as raw numbers or as percentages of the whole.

• Remainder Calculation •

Using the [int÷] key allows the user to calculate quotients and remainders easily.

10

SCIENTIFIC CALCULATORS

A Graphing Calculator that Makes Learning and Teaching Easier

Equation Editor

The Equation Editor displays equations as they would appear in a textbook, providing improved comprehension for students.
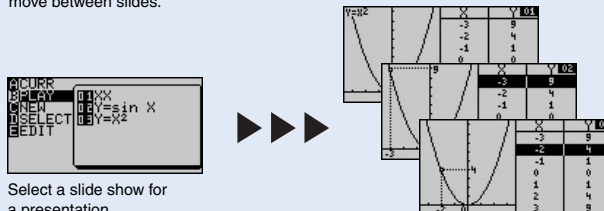
By Equation Editor

$$\int_0^1 \frac{X}{\sqrt{X^2+1}} \, dx$$

By one-line editing

Note: The EL-9900 can also switch to conventional one-line editing.

Slide Show

Lesson preparations are made easy with the Slide Show function. By utilising slide shows, teachers can easily demonstrate lessons to the class, using the cursor to move between slides.

Select a slide show for a presentation.

Move forward/backward between the slides.

Peripheral Devices for EL-9900

OHP System
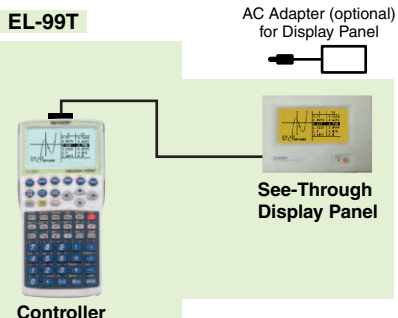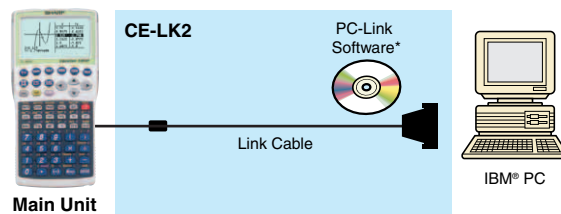
EL-99T

AC Adapter (optional) for Display Panel

See-Through Display Panel

Controller

Set-to-Set Communication Cable

CE-451L

Main Unit   Main Unit

PC-Link Kit

CE-LK2   PC-Link Software*

Link Cable

IBM® PC

Main Unit

*The PC software is intended to run on a PC with an English version of Microsoft® Windows® 98/98SE/2000 Professional/Me/XP Home/XP Professional.
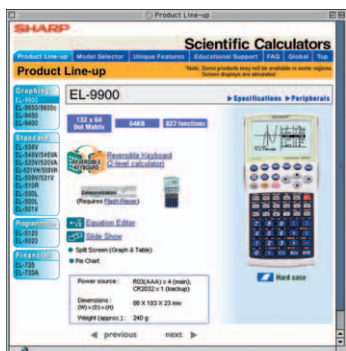
Data Collection System

Requires PC-Link Cable (included in PC-Link Kit, CE-LK2).

PC-Link Cable

Main Unit   Data Logger*
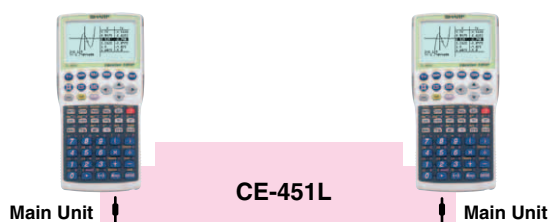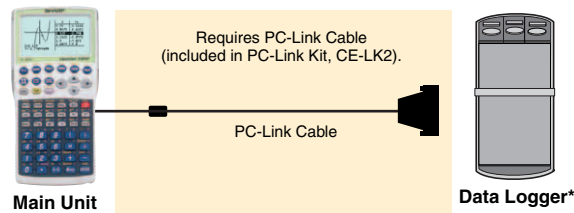
*Either Vernier®'s LabPro® or ImTech®'s DataLab® can be used as a data logger.
 Vernier® http://www.vernier.com/
 ImTech® http://firmwaresystems.com/

EL-9900 Homepage

For more information on the EL-9900, please go to the following page:

**http://sharp-world.com/products/calculator/product/graphing/9900.html**

N.B. This homepage is subject to being updated, so appearance may vary.

New Calculator Homepage

The newly redesigned Sharp scientific calculator homepage is even more convenient than before. Along with detailed information about each model in our line-up, you'll find Flash-based demonstrations of the calculators' unique features and a variety of handy downloads for educational use.
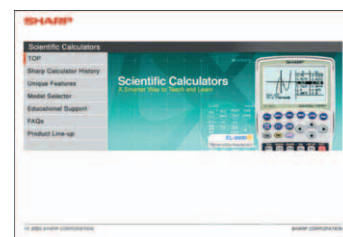
Available Downloads Include:
- Classroom Materials
- Programme Resources
- Guide Books
- Key Symbols for Textbooks
- Illustrations for OHPs

http://sharp-world.com/products/calculator/index.html

STANDARD

Upper: 12-Digit
Lower: 10+2-Digit
469 functions

D.A.L.
─F1 ─F3
─F2 ─F4
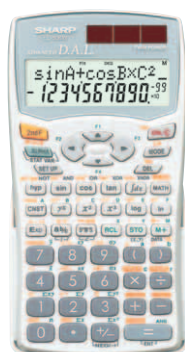2-Line
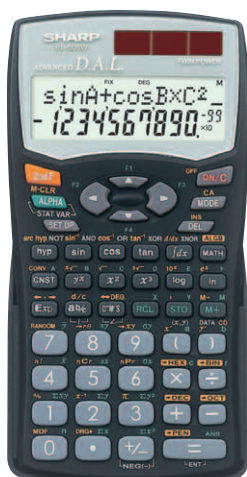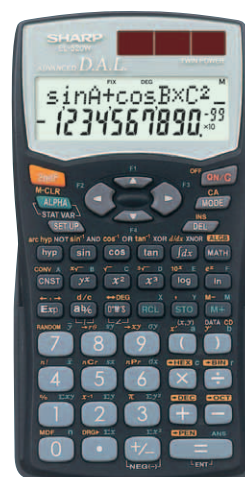3-DIGIT PUNCTUATION
2-KEY ROLL-OVER
a ÷K =X
b ÷K =Y
c ÷K =Z
A+B=C
√C=D
d/dX
∫dX
P

EL-506W(WH)

NEW

EL-506W(BK)

• Matrix/list calculations
• Constant/chain calculations
• Multi-line playback
• Solver function
• Matrix function
• Sturdy, stylish design

EL-506W(BK/WH)

• Power source: Twin power (Solar & LR44 x 2)
• Dimensions: 79.6 (W) x 154.5 (D) x 13.2 (H) mm
　　　　　3-1/8" x 6-3/32" x 17/32"
• Weight: Approx. 97 g

Upper: 12-Digit
Lower: 10+2-Digit
419 functions

D.A.L.
─F1 ─F3
─F2 ─F4
2-Line
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER
a ÷K =X
b ÷K =Y
c ÷K =Z
A+B=C
√C=D
d/dX
∫dX
P

EL-520W(WH)

NEW

EL-520W(BK)

• Constant/chain calculations
• Multi-line playback
• Solver function
• Sturdy, stylish design

EL-520W(BK/WH)

• Power source: Twin power (Solar & LR44 x 2)
• Dimensions: 79.6 (W) x 154.5 (D) x 13.2 (H) mm
　　　　　3-1/8" x 6-3/32" x 17/32"
• Weight: Approx. 97 g

Upper: 12-Digit
Lower: 10+2-Digit
272 functions

D.A.L.
3-DIGIT PUNCTUATION
2-Line
2-KEY ROLL-OVER
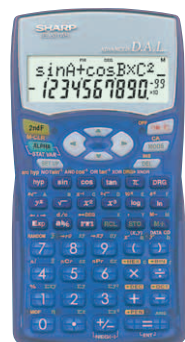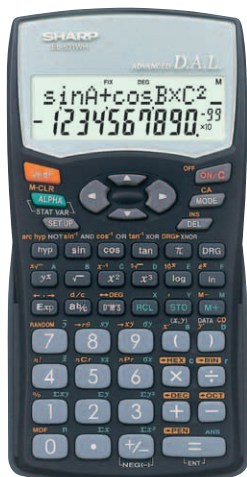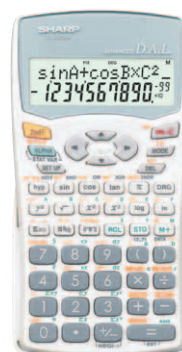a ÷K =X
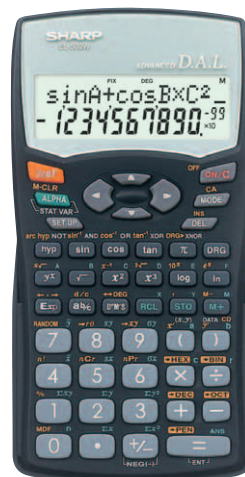b ÷K =Y
c ÷K =Z
A+B=C
√C=D
P
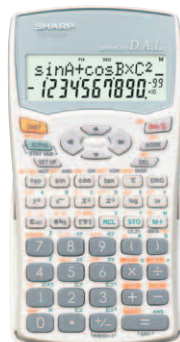
EL-531WH(WH)　　EL-531WH(BL)

EL-531WH(BK)

NEW

• Constant/chain calculations
• Multi-line playback
• Sturdy, stylish design

EL-531WH(BK/BL/WH)

• Power source: R6 (AA) x 1
• Dimensions: 79.6 (W) x 154.5 (D) x 18.2 (H) mm
　　　　　3-1/8" x 6-3/32" x 23/32"
• Weight: Approx. 110 g

Upper: 12-Digit
Lower: 10+2-Digit
272 functions

D.A.L.
3-DIGIT PUNCTUATION
2-Line
2-KEY ROLL-OVER
a ÷K =X
b ÷K =Y
c ÷K =Z
A+B=C
√C=D
P

EL-509W(WH)

NEW

EL-509W(BK)

• Constant/chain calculations
• Multi-line playback
• Sturdy, stylish design

EL-509W(BK/WH)

• Power source: LR44 x 2
• Dimensions: 79.6 (W) x 154.5 (D) x 13.2 (H) mm
　　　　　3-1/8" x 6-3/32" x 17/32"
• Weight: Approx. 95 g

Scientific Calculators

12

SCIENTIFIC CALCULATORS

STANDARD

ADVANCED **D.A.L.**

11-Digit

160 functions

D.A.L.

$a \div K = X$
$b \div K = Y$
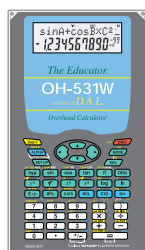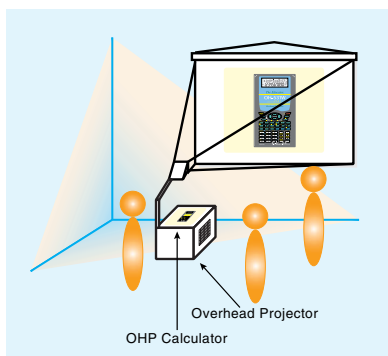$c \div K = Z$

$A + B = C$
$\sqrt{C} = D$

- Constant/chain calculations
- Equation display

EL-510R

- Power source: LR44 x 2
- Dimensions: 71.5 (W) x 124 (D) x 9.5 (H) mm
  2-13/16" x 4-7/8" x 3/8"
- Weight: Approx. 57 g

EL-531WH/531W/509W OHP Calculator

OH-531W
(Final design pending)

Overhead Projector

OHP Calculator

*Comprehensive calculation capability with same key operations and layout as EL-531WH/531W/509W.

- Number of functions: 272
- Power source: CR2032 x 1
- Dimensions: 120 (W) x 210 (D) x 10 (H) mm
  4-23/32" x 8-9/32" x 13/32"
- Weight: Approx. 370 g

10(8+2)-Digit

131 functions

$a \div K = X$
$b \div K = Y$
$c \div K = Z$

$A + B = C$
$\sqrt{C} = D$
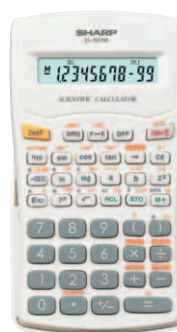
EL-501W(WH)

EL-501W(BK)

- Constant/chain calculations
- Stylish design

EL-501W(BK/WH)   NEW

- Power source: LR44 x 2
- Dimensions: 78.6 (W) x 144 (D) x 11.6 (H) mm
  3-3/32" x 5-21/32" x 15/32"
- Weight: Approx. 75 g

PROGRAMMABLE

14 + 2-Digit by 3-Line

1,211 Steps

242 functions

D.A.L.

- Programmable up to 1,211 steps
- Solver function

EL-5120

- Power source: CR2025 x 1
- Dimensions: 76 (W) x 145 (D) x 9.8 (H) mm
  3" x 5-23/32" x 3/8"
- Weight: Approx. 77 g

FINANCIAL

Upper: 12-Digit
Lower: 10 + 2-Digit

With Wallet

3-DIGIT PUNCTUATION

- Constant/chain calculations
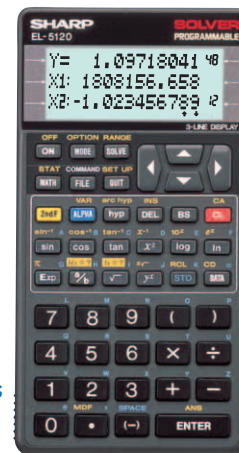- Compound interest calculation
- Bond calculation

EL-735

- Power source: CR2016 x 1
- Dimensions:
  69 (W) x 132 (D) x 7.8 (H) mm
  2-23/32" x 5-3/16" x 5/16"
- Weight: Approx. 69 g (excluding wallet)

10-Digit

With Wallet

3-DIGIT PUNCTUATION

- Constant/chain calculations
- Compound interest calculation

EL-733A

- Power source: LR44 x 2
- Dimensions:
  76 (W) x 143 (D) x 8.5 (H) mm
 3" x 5-5/8" x 11/32"
- Weight: Approx. 110 g (including wallet)
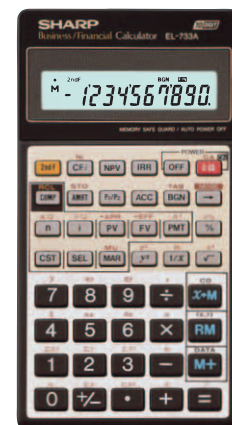
ADVANCED D.A.L. *Greater Efficiency and Ease of Use*

D.A.L. Direct Algebraic Logic (D.A.L.)

Until the introduction of SHARP's D.A.L., keying in equations had been a complicated process making scientific calculators difficult to use. Introduced in 1992 and an industry-first, SHARP's D.A.L. allows symbols and numbers of an equation to be entered as they are written. Instead of wasting energy on difficult calculator operations, users are free to concentrate on mathematical concepts.

For example, you want to input 10 + 2 × sin30 =

• Non D.A.L. system key operation

$10 + 2 \times \sin 30$

$2 \times 30 \sin$
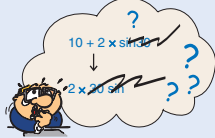
You have to push the keys in a different order than the actual equation, making the input process confusing.

• D.A.L. system key operation

1 0 + 2 × sin 3 0 =

You push the keys in the same order as the actual equation.

2-Line 2-Line Display

A 2-line display allows the users to check the equation and answer at the same time. Because the equation remains on display, it is easy to edit or make substitutions if necessary.

Display Example

Equation — sin30+cos45=
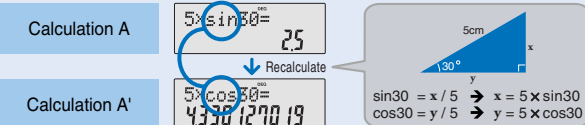Answer — 1.207106781
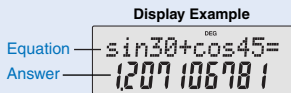
Multi-Line Playback

SHARP's Multi-Line Playback function lets you recall any of the last 142 steps you have made. This feature is very useful for comparing formulas and recalculating equations.

● **Comparative learning**

Calculation A (with parentheses)
30(52+26)= 2340.

Calculation B (without parentheses)
30×52+30×26= 2340.
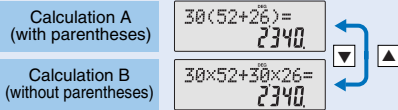
The equations are different, but the answers are the same.

● **Edit and recalculate**

Edit (sin to cos)

Calculation A
5×sin30= 2.5

↓ Recalculate

Calculation A'
5×cos30= 4.330127019

Change the previous equation and recalculate.

5cm

∖30°

$\sin30 = x / 5 \quad \rightarrow \quad x = 5 \times \sin30$
$\cos30 = y / 5 \quad \rightarrow \quad y = 5 \times \cos30$

Constant/Chain Calculations

Constant and Chain Calculation functions are popular in general electronic calculators as they allow equations to be entered without having to key repeatedly. Confusion may arise however, as not all scientific calculators show the equation being equal to the answer in the formula display. With SHARP's scientific calculators, the figures you omit are automatically shown as K (constant) or ANS (answer). Contradictions between equations and answers are eliminated and calculations are easier and more logical to enter.

● **Constant Calculation**

tan 30 × 10 = 5.773502692
tan 30 × 20 = 11.54700538
⋮
tan 30 × 50 = 28.86751346
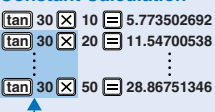
Constant (K ×)

A portion of the equation is automatically memorised as a constant, thus omitting redundant input.

● **Chain Calculation**

3 x^2 + 4 x^2 = 25 ($3^2 + 4^2 = 25$)

√ ANS = 5

Chain (ANS)

The answer can be used as is in the next calculation.

(Example using EL-506W.)

d/dx ∫dx Numerical Derivative/Integral

Simply enter numerical values following the interactive on-screen instructions, and you can find the answer easily of derivative and integral calculations. You don't have to re-enter the formula, and the calculation can be repeated as many times as needed.
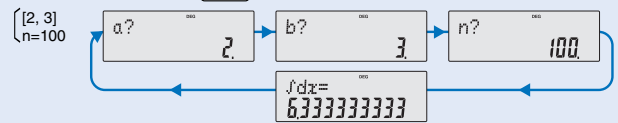
Equation y=x² — X²_ 0.

● **Numerical Derivative** 2ndF d/dx

X=-2
dx=0.001

X? -2. → dx? 0.001 → d/dx= -4.
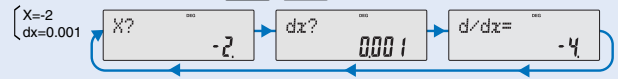
You can calculate the same derivative calculation repeatedly without having to input the formula again.

● **Numerical Integral** ∫dx

[2, 3]
n=100

a? 2. → b? 3. → n? 100.

∫dx= 6.333333333

You can calculate the same integral calculation repeatedly without having to input the formula again.
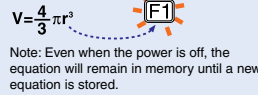
▪F1 ▪F3 / ▪F2 ▪F4 Formula Memory

Frequently used formulas or complex equations can be stored as functions in Formula Memory*. By recalling the formula, you can substitute new variables into the equation and recalculate it without having to enter the entire sequence again. Since you can do repeat equations, it's also convenient for simulations.
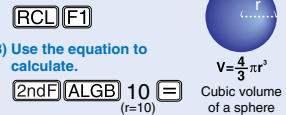*Formulas up to 256 characters in length can be stored in F1–F4.

How to use it

(1) Store the equation into the calculator.

$V=\frac{4}{3}\pi r^3$ → F1

Note: Even when the power is off, the equation will remain in memory until a new equation is stored.

(2) Call up the equation.

RCL F1

(3) Use the equation to calculate.

2ndF ALGB 10 =
(r=10)

r

$V=\frac{4}{3}\pi r^3$
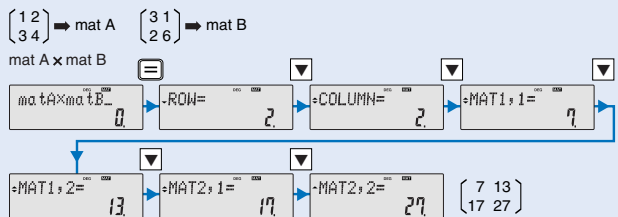Cubic volume of a sphere

Solver Function

This function enables calculation of a variable x in a given equation. Other variables (a, b, c, etc.) must already be defined in order to calculate x.

Equation "sin$x$ – 0.5" (DEG)

MATH 0

sinX-_ 0.5 → Start? 0. → dx? 0.00001 → X= 30.
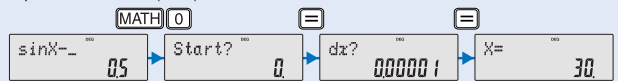
Matrix Function

In addition to the four basic arithmetic functions (excluding division between matrices), x^3, x^2, and x^{-1}, users are provided with transpose and cumulative matrix functions, among others. Up to four matrices can be saved in memory, each up to four rows by four columns in size.

$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$ ➡ mat A $\begin{pmatrix} 3 & 1 \\ 2 & 6 \end{pmatrix}$ ➡ mat B

mat A × mat B

matA×matB_ 0. → -ROW= 2. → ÷COLUMN= 2. → ÷MAT1,1= 7.

÷MAT1,2= 13. → ÷MAT2,1= 17. → -MAT2,2= 27. → $\begin{pmatrix} 7 & 13 \\ 17 & 27 \end{pmatrix}$

Scientific Calculators

14

PRINTING CALCULATORS

Wide Lineup Covering All Printing Needs

DESKTOP

CS-4194HC

14-Digit
2-Memory
LARGE DISPLAY
GT FUNCTION
2-COLOUR PRINT
±TAX

NEW

- Printing speed: **4.3** lines/sec.
- Power source: AC only
- Dimensions: 250 (W) x 345 (D) x 78 (H) mm
  9-27/32" x 13-19/32" x 3-1/6"
- Weight: Approx. 2,000 g

EL-2630PII

12-Digit
LARGE DISPLAY
GT FUNCTION
Rate Converter
AVG
2-COLOUR PRINT
±TAX

NEW

- Printing speed: Approx. **4.8** lines/sec.
- Power source: AC only
- Dimensions: 228 (W) x 336 (D) x 78 (H) mm
  8-31/32" x 13-7/32" x 3-1/16"
- Weight: Approx. 1,900 g

EL-2607P

12-Digit
LARGE DISPLAY
GT FUNCTION
AVG
2-COLOUR PRINT
±TAX

NEW

- Printing speed: Approx. **4.3** lines/sec.
- Power source: AC only
- Dimensions: 222 (W) x 327 (D) x 78 (H) mm
  8-3/4" x 12-7/8" x 3-1/16"
- Weight: Approx. 1,900 g

EL-1607P

12-Digit
LARGE DISPLAY
GT FUNCTION
Rate Converter
2-COLOUR PRINT
±TAX

NEW

- Printing speed: 3.0 lines/sec.
- Power source: AC only
- Dimensions: 220 (W) x 303 (D) x 71.5 (H) mm
  8-21/32" x 11-15/16" x 2-27/32"
- Weight: Approx. 1,300 g

EL-2910R

12-Digit
LARGE DISPLAY
GT FUNCTION
2-COLOUR PRINT
±TAX

- Printing speed: 3.0 lines/sec.
- Power source: AC only
- Dimensions: 221 (W) x 305 (D) x 72 (H) mm
  8-11/16" x 12-1/16" x 2-27/32"
- Weight: Approx. 1,300 g

EL-2902C

12-Digit
BackLight
LARGE DISPLAY
GT FUNCTION
2-COLOUR PRINT
±TAX

- Printing speed: 3.0 lines/sec.
- Power source: AC only
- Dimensions: 200 (W) x 251 (D) x 62 (H) mm
  7-27/32" x 9-7/8" x 2-7/16"
- Weight: Approx. 950 g

Printing Calculators (sidebar)

15

12-Digit

LARGE **DISPLAY**

Cost Sell Margin

GT FUNCTION

2-COLOUR PRINT

±TAX

EL-2901RH

- Printing speed: 2.1 lines/sec.
- Power source: AC only
- Dimensions: 193 (W) x 256 (D) x 62.5 (H) mm
  7-19/32" x 10-3/32" x 2-15/32"
- Weight: Approx. 1,000 g

SEMI-DESKTOP

12-Digit

LARGE **DISPLAY**

2-COLOUR PRINT

±TAX

EL-1801C

- Printing speed: 2.1 lines/sec.
- Power source: DC/AC (AA x 4, AC adapter optional)
- Dimensions: 170 (W) x 231 (D) x 57.5 (H) mm
  6-11/16" x 9-15/16" x 2-1/4"
- Weight: Approx. 580 g

12-Digit

LARGE **DISPLAY**

2-COLOUR PRINT

±TAX

EL-1750P

- Printing speed: Approx. 1.6 lines/sec.
- Power source: DC/AC (AA x 4, AC adapter optional)
- Dimensions: 150 (W) x 215 (D) x 50 (H) mm
  5-29/32" x 8-15/32" x 1-31/32"
- Weight: Approx. 500 g

HAND-HELD

12-Digit

LARGE **DISPLAY**

±TAX

Internal Paper-Roll Supply

External Paper-Roll Supply

EL-1611P

- Printing speed: 1.6 lines/sec.
- Power source: DC/AC (AA x 4, AC adapter optional)
- Dimensions: 96 (W) x 191 (D) x 40 (H) mm
  3-3/4" x 7-1/2" x 1-9/16"
- Weight: Approx. 315 g

16

Edit, Verify and Confirm Calculations

SEMI-DESKTOP

12-Digit	102 STEP MEMORY	REPEAT
Tilt Display	AUTO REPLAY	CHANGE
Last Answer	CORRECT	ANSWER CHECK
LARGE DISPLAY	INSERT	±TAX
GT FUNCTION	DELETE	
3-DIGIT PUNCTUATION		
2-KEY ROLL-OVER		

EL-792C

- Power source: Twin power (Solar cell & CR2032 x 1)
- Dimensions: 130 (W) x 209 (D) x 21 (H) mm
  5-1/8" x 8-7/32" x 13/16"
- Weight: Approx. 220 g

NICE SIZE

12-Digit	102 STEP MEMORY	REPEAT
Tilt Display	AUTO REPLAY	CHANGE
LARGE DISPLAY	CORRECT	ANSWER CHECK
3-DIGIT PUNCTUATION	INSERT	±TAX
2-KEY ROLL-OVER	DELETE	

EL-782C

- Power source: Twin power (Solar cell & CR2032 x 1)
- Dimensions: 106 (W) x 177 (D) x 19 (H) mm
  4-3/16" x 6-31/32" x 3/4"
- Weight: Approx. 160 g

MINI NICE SIZE

10-Digit	102 STEP MEMORY	CHANGE
Slant Display	AUTO REPLAY	ANSWER CHECK
LARGE DISPLAY	CORRECT	±TAX
3-DIGIT PUNCTUATION	REPEAT	
2-KEY ROLL-OVER		

EL-771C

- Power source: Twin power (Solar cell & CR2032 x 1)
- Dimensions: 115 (W) x 144 (D) x 39 (H) mm
  4-17/32" x 5-21/32" x 1-17/32"
- Weight: Approx. 125 g

Super Check & Correct

Check & Correct Functions

SHARP's original *102-step* memory and editing functions make accounting easy.

	INPUT		EDIT

Check → AUTO REPLAY or PREV NEXT

102 Step Memory

INPUT

STEP	FUNCTION	DATA
01		800
02	+	9750
03	+	5420
04	−	360
05	−	490
06	+	230
07	+	450
08	+	450
09	+	450
10	=	16700

→ +TAX 17535

(PAYMENT ⌨ : 20000)

20000

CHANGE 2465

EDIT

CORRECT (step 02)
To change the wrong entry of 9750 to 8750
[CORRECT] **8750** [CORRECT]

INSERT (step 04)
To insert the forgotten entry of 300
[INS] [+] **300** [CORRECT]

DELETE (step 06)
To delete the unwanted entry of 230
[DEL →]

REPEAT ENTRY
To repeat the entry of 450 twice
[+] **450** [REPEAT] [REPEAT]
(step 07)   (step 08)   (step 09)

TAX CALCULATION
To add tax to the total
[+TAX] **(RATE: 5%)**

CHANGE CALCULATION
To calculate the amount to return from a payment of 20000
20000 [CHANGE]

Powerful Function Keys

[102 STEP MEMORY] [AUTO REPLAY] 102-Step Memory and Auto Replay
The last 102 actions can be recalled step-by-step by scrolling with the cursor keys. Pressing the Auto Replay key reviews the entire calculation automatically.

[CORRECT] [INSERT] [DELETE] Correct, Insert and Delete Editing Functions
The Correct key allows you to correct wrong data you've entered. Insert new data with the Insert key and delete previous entries with the Delete key. To confirm the result, press the Auto Replay key.

[REPEAT] Repeat
The Repeat key is extremely handy when entering the same values. Pressing it enters the last inputted value.

[±TAX] [CHANGE] Tax and Change Calculations
Pressing the Tax key automatically adds or subtracts the total tax amount. After entering the amount received as payment, press the Change key to see how much change to return.

[ANSWER CHECK] Answer Check
An "OK" sign appears when the checking calculation matches the result of the first.

Super Check & Correct

18

Functions and Features that Get the Job Done

DESKTOP/SEMI-DESKTOP

Office Calculators

12-Digit
Slant Display
LARGE DISPLAY
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

CS-2122H

Time Calculation

• Power source: AC only
• Dimensions: 210 (W) x 220 (D) x 74 (H) mm
 8-9/32" x 8-21/32" x 2-29/32"
• Weight: Approx. 850 g

12-Digit
LARGE DISPLAY
Kick Stand
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

CS-2130

• Protective Display Cover
• Power source: Twin power (Solar cell & CR2032 x 1)
• Dimensions: 185 (W) x 175 (D) x 18 (H) mm
 7-9/32" x 6-7/8" x 23/32"
• Weight: Approx. 290 g

16-Digit
Slant Display
LARGE DISPLAY
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

EL-6138

• Power source: Twin power (Solar cell & CR2032 x 1)
• Dimensions: 190 (W) x 154 (D) x 42 (H) mm
 7-15/32" x 6-1/16" x 1-21/32"
• Weight: Approx. 330 g

12-Digit
Slant Display
LARGE DISPLAY
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

EL-2135

• Protective Display Cover
• Power source: Twin power (Solar cell & CR2032 x 1)
• Dimensions: 190 (W) x 154 (D) x 42 (H) mm
 7-15/32" x 6-1/16" x 1-21/32"
• Weight: Approx. 330 g

12-Digit
Tilt Display
LARGE DISPLAY
GT FUNCTION
3-Rate Converter
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER
RESUME
ANSWER CHECK
±TAX

EL-2125C

• Power source: Twin power (Solar cell & LR44 x 1)
• Dimensions: 140 (W) x 195 (D) x 22.5 (H) mm
 5-19/32" x 7-21/32" x 29/32"
• Weight: Approx. 215 g

12-Digit
LARGE DISPLAY
Kick Stand
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER
RESUME PLUS
DAY/DATE
ANSWER CHECK
+TAX

EL-2128R

• Power source: Twin power (Solar cell & LR44 x 1)
• Dimensions: 128 (W) x 177 (D) x 19 (H) mm
 5-1/32" x 6-31/32" x 3/4"
• Weight: Approx. 205 g

19

EL-2139S

12-Digit | **ANSWER CHECK**
L LARGE DISPLAY | **±TAX**
Kick Stand
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 140 (W) x 195 (D) x 22 (H) mm
  5-19/32″ x 7-21/32″ x 7/8″
- Weight: Approx. 235 g

EL-338F

12-Digit | **3-DIGIT PUNCTUATION**
L DISPLAY | **2-KEY ROLL-OVER**
Cost Sell Margin
Kick Stand
GT FUNCTION

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 133 (W) x 200 (D) x 18 (H) mm
  5-1/4″ x 7-27/32″ x 23/32″
- Weight: Approx. 230 g

NICE SIZE

EL-387R

12-Digit | **RESUME PLUS** | **DAY/DATE**
L LARGE DISPLAY | **ANSWER CHECK**
Kick Stand | **+TAX**
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 107 (W) x 169 (D) x 19 (H) mm
  4-7/32″ x 6-21/32″ x 3/4″
- Weight: Approx. 158 g

EL-337C

12-Digit | **RESUME**
Tilt Display | **ANSWER CHECK**
L LARGE DISPLAY | **±TAX**
GT FUNCTION
3-Rate Converter
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 108 (W) x 175 (D) x 22 (H) mm
  4-7/32″ x 6-7/8″ x 7/8″
- Weight: Approx. 165 g

EL-339S

12-Digit | **ANSWER CHECK**
L LARGE DISPLAY | **±TAX**
Kick Stand
GT FUNCTION
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 108.6 (W) x 176 (D) x 18.4 (H) mm
  4-9/32″ x 6-15/16″ x 23/32″
- Weight: Approx. 165 g

EL-421M

14-Digit | **RESUME**
L LARGE DISPLAY | **±TAX**
Kick Stand
Easy Hold
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 108 (W) x 170 (D) x 15 (H) mm
  4-1/4″ x 6-11/16″ x 19/32″
- Weight: Approx. 160 g

Office Calculators

OFFICE CALCULATORS

NICE SIZE

10-Digit

L LARGE DISPLAY

Kick Stand

GT FUNCTION

Easy Hold

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX

EL-334F

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 108 (W) x 170 (D) x 15 (H) mm
  4-1/4" x 6-11/16" x 19/32"
- Weight: Approx. 160 g

Convenient Functions

RESUME
Resume Function
To resume operations after the Auto Power-Off Function has taken effect, press the Resume key. The display will return to the calculation that was in progress, providing the following indicator:
• Function Symbol: indicates the last function used in the calculation.

RESUME PLUS
Resume Plus
(Resume Function plus Line Counter and Condition Symbol)
Adds the following indicators as well as Resume Function:
• Line Counter: shows number of figures entered.
• Condition Symbol: indicates the next figure should be entered.
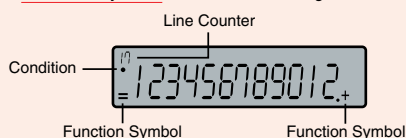
Line Counter

Condition

Function Symbol   Function Symbol

ANSWER CHECK
Answer Check
An "OK" sign appears when the checking calculation matches the result of the first.

±TAX
Tax Calculation
Easily calculates prices with or without taxes.

DAY/DATE
Day/Date Calculation
• Day Calculation: determines number of days between two dates.
• Date Calculation: determines the date after a number of days and a starting date have been entered.

MINI NICE SIZE

10-Digit

Slant Display

L LARGE DISPLAY

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX

EL-332A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 101 (W) x 142 (D) x 34 (H) mm
  3-31/32" x 5-19/32" x 1-11/32"
- Weight: Approx. 115 g

10-Digit (EL-331A)

8-Digit (EL-330A)

Tilt Display

L LARGE DISPLAY

Easy Hold

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX

EL-331A

EL-331A, EL-330A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 102 (W) x 148 (D) x 15 (H) mm
  4-1/32" x 5-13/16" x 19/32"
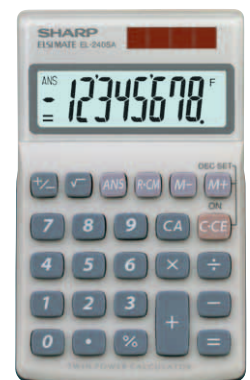- Weight: Approx. 125 g

8-Digit

Slant Display

L LARGE DISPLAY

Easy Hold

EL-310A

- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 87 (W) x 116 (D) x 20 (H) mm
  3-13/32" x 4-9/16" x 25/32"
- Weight: Approx. 76 g

Office Calculators

21

Stylish Design

NEW

Something new for our office and personal calculators: acrylic glass screen-tops. Sturdy enough to protect the screen from damage, the new screen-tops also bring a touch of modern style to the work station.

10-Digit | **Slant Display** | **LARGE DISPLAY** | **Rate Converter** | 3-DIGIT PUNCTUATION | 2-KEY ROLL-OVER | ±TAX

EL-M711G
- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 100 (W) x 151.5 (D) x 33 (H) mm
  3-15/16″ x 5-31/32″ x 1-5/16″
- Weight: Approx. 130 g

8-Digit | **Slant Display** | **LARGE DISPLAY** | **Rate Converter** | 3-DIGIT PUNCTUATION | ±TAX | 2-KEY ROLL-OVER

NEW

EL-M710G
- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 100 (W) x 151.5 (D) x 33 (H) mm
  3-15/16″ x 5-31/32″ x 1-5/16″
- Weight: Approx. 130 g

8-Digit | **Slant Display** | **LARGE DISPLAY** | 3-DIGIT PUNCTUATION | ±TAX | 2-KEY ROLL-OVER

NEW

EL-M700G
- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 87 (W) x 116.5 (D) x 28.5 (H) mm
  3-7/16″ x 4-19/32″ x 1-1/8″
- Weight: Approx. 85 g

Office Calculators

22

12/14 DIGIT CALCULATORS

Offering Reliability and Convenience

NICE SIZE

14-Digit
Tilt Display
±TAX **NEW**
LARGE DISPLAY
Easy Hold
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

EL-145A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 110 (W) x 168 (D) x 15 (H) mm
  4-11/32″ x 6-5/8″ x 19/32″
- Weight: Approx. 160 g

12-Digit
Tilt Display
NEW
LARGE DISPLAY
Easy Hold
3-DIGIT PUNCTUATION ±TAX
2-KEY ROLL-OVER

EL-125A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 110 (W) x 168 (D) x 15 (H) mm
  4-11/32″ x 6-5/8″ x 19/32″
- Weight: Approx. 160 g

MINI NICE SIZE

14-Digit ±TAX **NEW**
Tilt Display
LARGE DISPLAY
Easy Hold
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER

EL-144A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 102 (W) x 148 (D) x 15 (H) mm
  4-1/32″ x 5-13/16″ x 19/32″
- Weight: Approx. 125 g

12-Digit **NEW**
Tilt Display
LARGE DISPLAY
Easy Hold
3-DIGIT PUNCTUATION ±TAX
2-KEY ROLL-OVER

EL-124A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 102 (W) x 148 (D) x 15 (H) mm
  4-1/32″ x 5-13/16″ x 19/32″
- Weight: Approx. 125 g

HAND-HELD/HARD COVER

14-Digit
LARGE DISPLAY
Hard Cover
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER P
NEW

EL-143S

- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions (closed): 72 (W) x 115 (D) x 12 (H) mm
  2-27/32″ x 4-17/32″ x 15/32″
- Weight: Approx. 66 g

12-Digit
LARGE DISPLAY
Hard Cover
3-DIGIT PUNCTUATION
2-KEY ROLL-OVER P
NEW

EL-123S

- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions (closed): 72 (W) x 115 (D) x 12 (H) mm
  2-27/32″ x 4-17/32″ x 15/32″
- Weight: Approx. 66 g

Hand-Fitting Sizes with the Functions You Need

WALLET/HAND-HELD

10-Digit

L LARGE DISPLAY

Cost Sell Margin

With Wallet

3-DIGIT PUNCTUATION

EL-480S

- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 69 (W) x 119 (D) x 7.1 (H) mm
  2-23/32" x 4-11/16" x 9/32"
- Weight: Approx. 65 g (including wallet)

8-Digit

L LARGE DISPLAY

Metric Converter

With Wallet

3-DIGIT PUNCTUATION
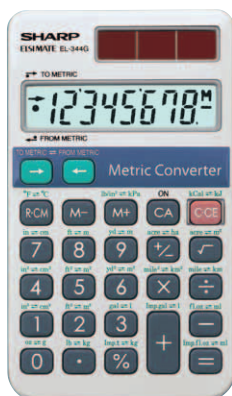
EL-344G

- Power source: Solar 50 Lux
- Dimensions: 70 (W) x 122 (D) x 5.9 (H) mm
  2-3/4" x 4-13/16" x 7/32"
- Weight: Approx. 80 g (including wallet)

10-Digit

NEW

L LARGE DISPLAY

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX

P

EL-W211G

- Power source: Twin power (Solar cell & CR2016 x 1)
- Dimensions: 70 (W) x 117 (D) x 8.1 (H) mm
  2-3/4" x 4-19/32" x 5/16"
- Weight: Approx. 56 g

10-Digit

L LARGE DISPLAY

With Wallet

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX
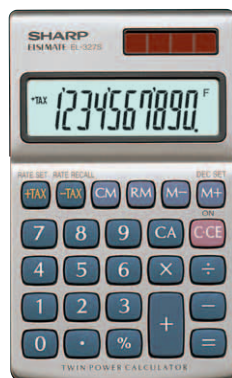
EL-327S

- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 69 (W) x 115 (D) x 6.5 (H) mm
  2-23/32" x 4-17/32" x 1/4"
- Weight: Approx. 59 g (excluding wallet)

8-Digit

L LARGE DISPLAY

With Wallet

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX
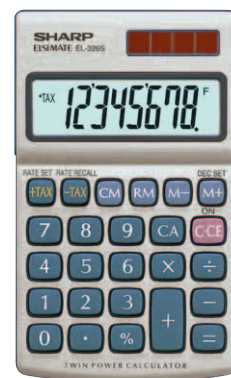
EL-326S

- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 69 (W) x 115 (D) x 6.5 (H) mm
  2-23/32" x 4-17/32" x 1/4"
- Weight: Approx. 59 g (excluding wallet)

Personal Calculators

WALLET/HAND-HELD

12-Digit

L LARGE DISPLAY

3-DIGIT PUNCTUATION
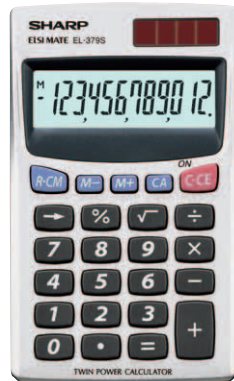
2-KEY ROLL-OVER

EL-379S
- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 70 (W) x 117 (D) x 8 (H) mm
  2-3/4″ x 4-19/32″ x 5/16″
- Weight: Approx. 47 g

10-Digit

L LARGE DISPLAY

3-DIGIT PUNCTUATION
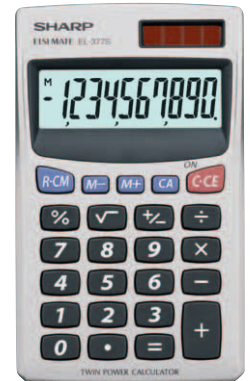
2-KEY ROLL-OVER

EL-377S
- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 70 (W) x 117 (D) x 8 (H) mm
  2-3/4″ x 4-19/32″ x 5/16″
- Weight: Approx. 47 g

8-Digit

L LARGE BLUE DISPLAY

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX

EL-371S
- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 66 (W) x 108 (D) x 7 (H) mm
  2-19/32″ x 4-7/32″ x 9/32″
- Weight: Approx. 40 g

8-Digit

NEW

L LARGE DISPLAY

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

±TAX
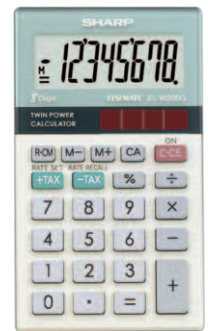
EL-W200G
- Power source: Twin power (Solar cell & CR2016 x 1)
- Dimensions: 60 (W) x 105 (D) x 8.1 (H) mm
  2-3/8″ x 4-1/8″ x 5/16″
- Weight: Approx. 45 g

8-Digit

Slant Display

L LARGE DISPLAY

3-DIGIT PUNCTUATION

±TAX
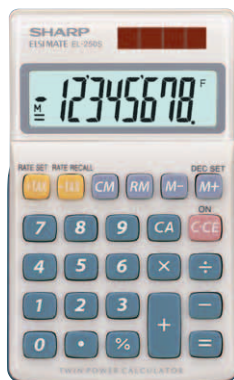
EL-250S
- Protective Display Cover
- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 71 (W) x 116 (D) x 16.5 (H) mm
  2-25/32″ x 4-9/16″ x 21/32″
- Weight: Approx. 58 g

8-Digit

Slant Display

Last Answer

L LARGE DISPLAY

3-DIGIT PUNCTUATION

EL-240SA
- Protective Display Cover
- Power source: Twin power (Solar cell & LR1130 x 1)
- Dimensions: 71 (W) x 116 (D) x 16.5 (H) mm
  2-25/32″ x 4-9/16″ x 21/32″
- Weight: Approx. 58 g

Personal Calculators

25

LLARGE **DISPLAY**

P

EL-231L

• Power source: AA x 1
• Dimensions: 69 (W) x 115.5 (D) x 20.5 (H) mm
             2-23/32″ x 4-9/16″ x 13/16″
• Weight: Approx. 71 g

8-Digit

LLARGE **DISPLAY**

P
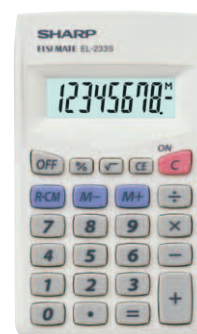
EL-233S

• Power source: LR1130 x 1
• Dimensions: 60 (W) x 103 (D) x 8.3 (H) mm
             2-3/8″ x 4-1/16″ x 5/16″
• Weight: Approx. 35 g

HARD COVER

8-Digit

LLARGE **DISPLAY**

Hard Cover

P

EL-376S

• Power source: Twin power (Solar cell & LR1130 x 1)
• Dimensions (closed): 72 (W) x 115 (D) x 12 (H) mm
                  2-13/16″ x 4-17/32″ x 15/32″
• Weight: Approx. 66 g

8-Digit

LLARGE **DISPLAY**

Hard Cover

EL-243S

• Power source: Twin power (Solar cell & LR1130 x 1)
• Dimensions (closed): 64 (W) x 105 (D) x 11 (H) mm
                  2-1/2″ x 4-5/32″ x 7/16″
• Weight: Approx. 51 g

CARD

8-Digit

LLARGE **DISPLAY**

With Wallet

3-DIGIT PUNCTUATION

EL-879M

• Power source: Twin power (Solar cell & LR1130 x 1)
• Dimensions: 99.6 (W) x 67 (D) x 7.3 (H) mm
          3-29/32″ x 2-21/32″ x 9/32″
• Weight: Approx. 59 g (including wallet)

Personal Calculators

26

SHARP

SHARP CORPORATION OSAKA, JAPAN

• Design and specifications are current as of September 2004, but are subject
  to change without prior notice.
• All company and/or product names are trademarks and/or registered
  trademarks of their respective manufacturers. Sharp makes no warranties
  or representations of any kind with respect to these products.
• Some peripheral products may not be available in some regions.
• Screen displays are simulated.
• Some models may not be available in some regions. Please ask your
  Sharp dealer for details.

Distributed by:

SPECIFICATIONS
&
MERCHANDISING
INFORMATION

2004-2005
Electronic Dictionaries,
Electronic Calculators and Organizers

SHARP

SHARP CORPORATION OSAKA, JAPAN

ELECTRONIC DICTIONARIES

SPECIFICATIONS

Model	PW-E500/E300
Display	159 x 80 dots (35 columns, 8 lines) with 2 font sizes (9- & 12-point)
Dictionaries Included	*Oxford Dictionary of English 2e* © Oxford University Press 2003 *New Oxford Thesaurus of English* © Oxford University Press 2000 *The Oxford Dictionary of Quotations 5e* © Oxford University Press 1999 (PW-E500 only)
Number of Entries *Oxford Dictionary of English (2nd Ed.)*	Approx. 355,000 words, phrases, and definitions
New Oxford Thesaurus of English	Approx. 600,000 alternative and opposite words
The Oxford Dictionary of Quotations (5th Ed.)	Approx. 20,000 quotations, comprehensively indexed, & approx. 3,200 authors (PW-E500 only)
Calculator Function	12-digit calculation of addition, subtraction, multiplication, division, percentage, memory calculation, etc.
Converter Function	12-digit conversion of currencies and measurements
Power Consumption	0.11 W
Operation Temperature	0 °C – 40°C (32°F – 104°F)
Power Supply	1.5 V (DC): Alkaline battery LR03 (AAA size) x 1
Battery Life	Approx. 200 hours, if data is displayed continuously at 25°C/77°F (May vary according to various usage conditions)
Auto Power Off	Activated after 3, 5, 10 or 20 minutes (user settable)
Dimensions (When Closed) (W x D x H)	125 mm x 79.4 mm x 16.8 mm (4-29/32" x 3-1/8" x 21/32")
Weight (Including Battery)	Approx. 148 g

ELECTRONIC ORGANIZERS

SPECIFICATIONS

Model	ZQ-590A	ZQ-290H	ZQ-270P	ZQ-190P
Display	80 dots x 111 dots	14-column x 5-line	111 dots x 48 dots	19-column x 5-line
Backlight	◯	◯	◯	◯
Memory Capacity	8MB (Flash memory)*1	1.5MB equivalent*1, *6	256KB (Flash memory)*1	256KB
Time Management Calendar	6-week (1-month)	4-week	1-month	5-week
Schedule	◯	◯	◯	◯
Anniversary	◯*2	◯*2	◯*2	◯*2
To Do	◯*2	◯*2	◯*2	◯*2
Home Clock	◯	◯	◯	◯
World Clock	97-city	42-city	96-city	27-city
Alarm	◯	◯	◯	◯
Expense	◯*2	◯*2	◯*2	◯*2
Database Telephone Directory	3-file	3-file	3-file	3-file (Multi Address Directory System)
E-mail Address	in Tel directory	in Tel directory	in Tel directory	
Web Address (URL)	—	—	—	
Memo	◯	◯	◯	◯
E-mail Viewer	◯*3	—	—	—
Calculation	◯	◯	◯	◯
Conversion	◯	◯	◯	◯
Spell Checker	◯*4 (Approx. 12,000 English words)	◯ (Approx. 12,000 English words)	—	—
English/Spanish Word Translator	◯*4 (Approx. 12,000 words each)	—	—	—
Phrase Book	◯ (5-language)*4	—	—	—
Game	◯	◯	◯	◯
Secret	◯*2	◯*2	◯*2	◯*2
Diet Function	—	◯*7	—	—
Search Sequential/Direct/Keyword	◯/◯/—	◯/◯/—	◯/◯/—	◯/◯/—
Index	◯	—	—	◯
Communication Unit to Unit	—	—	—	CE-260L*8
PC Link	Included (Microsoft® Outlook® synchronise capability)	Included (Microsoft® Outlook® synchronise capability)	Included PC-Link Kit (for simple backup)	Included PC-Link Kit (for simple backup)
Power Source Main (Approx. Life)	LR03 (AAA) x 1 (120 hrs.*a, 60 hrs.*b)*5	CR2032 x 2 (1,800 hrs.*c, 1,200 hrs.*d, 6 mos.*e)*5	CR2032 x 3 (170 hrs.*a, 120 hrs.*f, 120 hrs.*g)*5	CR2032 x 2 (1,200 hrs.*a, 300 hrs.*f, 270 hrs.*g)*5
Backup (Approx. Life)	Flash memory	Flash memory	Flash memory	CR2032 x 1 (5 yrs.)*9
Backlight	Uses main battery	Uses main battery	Uses main battery	Uses main battery
Dimensions (Closed) (W x D x H)	70.8 x 118 x 13.5 mm 2-25/32" x 4-21/32" x 17/32"	71.6 x 112.5 x 16.9 mm 2-13/16" x 4-7/16" x 21/32"	154 x 92.5 x 13 mm 6-1/16" x 3-21/32" x 1/2"	148 x 92 x 13 mm 5-13/16" x 3-5/8" x 1/2"
Weight (Approx.)	115 g	105 g	125 g	125 g

Model	ZQ-P20H	EL-6990P	ZQ-P10	EL-6910	EL-6053S
Display	12-column x 3-line	14-column x 5-line	12-column x 3-line	12-column x 1-line + 12-digit x 2-line	12-column x 1-line + 12-digit x 2-line
Backlight	◯	◯	—	—	—
Memory Capacity	1MB (Flash memory)*1	256KB (Flash memory)*1	96KB equivalent*11	64KB	8KB
Max. Input Capacity Characters	36 + 72 + 36 + 36*10	Total 716	36 + 36 + 36 + 36*10	36 + 36 + 36 + 36*10	36 + 36 + 36*10
Numbers	72*10		72*10	72*10	72*10
Keyboard	—	QWERTY layout	—	QWERTY layout	QWERTY layout
Lowercase Letters	◯ (Except Greek mode)	◯	◯ (Except Greek mode)	◯	◯
European Characters	◯	—	◯	◯	◯
Schedule with Alarm	◯	◯	◯	◯	◯
Calendar	—	4-week	—	—	—
Telephone Directory	2-file	3-file	2-file	2-file	2-file
E-mail Address	in Tel directory	in Tel directory	in Tel directory	in Tel directory	in Tel directory
Web Address (URL)	in Tel directory	—	in Tel directory	in Tel directory	—
Memo	◯	◯	◯	◯	◯
Home Clock with Alarm	◯	◯	◯	◯	◯
World Clock	42-city	42-city	29-city	29-city	29-city
Calculation	10-digit	12-digit	10-digit	10-digit	10-digit
Currency/Unit Conversion	◯	◯	◯	◯	◯
Anniversary	—	◯	—	—	—
Spell Checker	◯ (Approx. 10,000 English words)	—	—	—	—
English/Spanish Word Translator	—	Approx. 10,000 words each	—	Approx. 1,200 words each	—
Game	◯	◯	◯	◯	◯
Secret	◯*2	◯*2	◯*2	◯*2	◯*2
Diet Function	◯*7	—	—	—	—
PC Link	Included (Microsoft® Outlook® synchronise capability)	Included PC-Link Kit (for simple backup)	—	—	—
Power Source Main (Approx. Life)	CR2032 x 2 (5,000 hrs.*c, 2,000 hrs.*d, 6 mos.*e)*5	CR2032 x 1 (1,200 hrs.*a, 800 hrs.*b)*5	CR2032 x 1 (2 yrs.*h)*5	CR2032 x 1 (2 yrs.*h)*5	CR2025 x 1 (2 yrs.*h)*5
Backup	Flash memory	Flash memory	—	—	—
Backlight (Approx. Life)	Uses main battery	CR2032 x 1 (4,000 times)*5	—	—	—
Dimensions (Closed) (W x D x H)	69.8 x 109.3 x 16.3 mm 2-3/4" x 4-5/16" x 21/32"	143 x 88 x 13.3 mm 5-5/8" x 3-15/32" x 17/32"	64 x 97 x 14.8 mm 2-17/32" x 3-13/16" x 19/32"	143 x 88 x 13.3 mm 5-5/8" x 3-15/32" x 17/32"	128 x 86.6 x 12.7 mm 5-1/16" x 3-3/8" x 1/2"
Weight (Approx.)	104 g	111 g	72 g	105 g	87 g

Certain functions will require a PC, optional PC software, add-on software, a cellular phone, a printer, and/or a wireless interface as demanded. Some services listed may not be available in some regions due to existing restrictions.
*1 ZQ-590A: 8MB (User area: approx. 8,000KB for data storage)
   ZQ-290H: 1.5MB equivalent (User area: approx. 896KB for data storage)
   ZQ-270P: 256KB (User area: approx. 235KB for data storage)
   ZQ-P20H: 1MB (User area: approx. 896KB for data storage)
   EL-6990P: 256KB (User area: approx. 250KB for data storage)
*2 Functions differ in each model.
*3 File attachments cannot be downloaded. Text viewer only.
*4 Downloadable from included CD-ROM.
*5 At an ambient temperature of 25°C (77°F). Actual battery life may vary depending on usage.
  *a When data is continuously displayed without backlight.
  *b When data is searched for 5 minutes and displayed for 55 minutes per hourly use, and backlight is on for 2 minutes per hourly use.
  *c When data is continuously displayed without backlight, with pedometer off.
  *d When data is searched for 5 minutes and displayed for 55 minutes per hourly use, with pedometer off.

*e While pedometer is on, with 5 minutes of data search, 55 minutes of data display, and 10,000 step counts per day.
*f When data is continuously displayed and backlight is on for 2 minutes per hourly use.
*g When data is searched for 5 minutes, displayed for 55 minutes and backlight is on for 2 minutes per hourly use.
*h When data is displayed for 30 minutes, alarm on for 20 seconds and key touch tone turned on/off 100 times per day.
*i When backlight is on for 10 seconds and off for 50 seconds.
*6 Memory at 1.5MB equivalent. Approx. 7,000 telephone names & numbers can be stored by using compression technology at a compression rate of approx. 1.5:1. (Names & numbers — including home, office, fax, and mobile — are 14 characters per entry, and addresses are 38 characters per entry.)
*7 The Diet function features a built-in pedometer. It also enables calculation of the calories, carbohydrates and other nutritional data for 800 different foods (200 foods for the ZQ-P20H, with no other nutritional data). Databases are downloadable from the included CD-ROM.
*8 May not be available in some regions as stocks are very limited.
*9 If operating batteries are replaced promptly when exhausted.
*10 Telephone directory mode.
*11 Memory at 96KB Equivalent. Approx. 1,500 telephone names & numbers (name, telephone and fax number are 14 characters per entry) can be stored by using compression technology. (Compression Rate Approx. 1.5:1)

SCIENTIFIC CALCULATORS

SPECIFICATIONS *(GRAPHING)*

Model			EL-9900
Display			22 x 8 (132 x 64 dot)
Calculation Results (Mantissa + Exponent)			10 + 2
Memory			27
Functions			827
Max. Pending Operation (Calculations/Numeric Values)			32/14
Equation Editor			○
Playback			○
Functions	**FSE Display**		○
	Last Digit Correction		○
	Last Entry Recall		○
	Last Answer Recall		○
	π, +/−, EXP		○
	y^x, $\sqrt[x]{y}$, x^2, $\sqrt{\ }$, x^{-1}		○
	ln, log, e^x, 10^x		○
	sin, cos, tan, $\sin^{-1}$, $\cos^{-1}$, $\tan^{-1}$		○
	sinh, cosh, tanh, $\sinh^{-1}$, $\cosh^{-1}$, $\tanh^{-1}$		○
	sec, csc, cot, $\sec^{-1}$, $\csc^{-1}$, $\cot^{-1}$		○
	n!, nPr, nCr		○
	Random		○
	Fraction Calculations		○
	Manual Reduction		○
	Fraction/Decimal Conversion		○
	→rθ,→xy,→DEG,→DMS		○
	Deg, Rad, Grad Modes		○
	Integer Division		○
	Complex Number Calculation		○
	Numerical Derivative		○
	Numerical Integral		○
	Matrix Calculation		○
	Simultaneous Equation		2~6VLE*[1]
	Solver		○
	Financial Calculation		○
	List/List Grouping		○
	Σ Calculation		○
	Polynomial Equation		○
BIN/OCT/ HEX. Cal.	**Bin/Oct/Hex Modes**		○
	Logical Operation		○
Statistics	**Variable Statistics**		1/2
	Regression Models		14
	Scatter Plots and Histograms		○
	Box and Whisker Diagrams		○
	Inferential Statistics		○
	Probability Distribution		○
Programming	**Programming Type**		Command
	Max. Programmes		99
	Total Memory Size		64KB
	Programme Titles		○
	Subroutines, Branch		○
Graphing	**Standard Features**	**Function Graphing**	up to 10
		Parametric Graphing	up to 6
		Polar Graphing/Sequence Graphing	up to 6/up to 3
		Split Screen (Graph-Table/Graph-Equation)	○
		Zoom, Trace, Graph Style	○
		Table of Function Values	○
	Features Unique to SHARP	**Slide Show** — **Original**	○
		Slide Show — **Multiple**	○
		Reversible Keyboard	○
Ports			Unit/PC*[2]
Optional	**PC Link**		CE-LK2
	Unit to Unit		CE-451L
	OHP System		EL-99T
	Data Collection System		○*[3]
Power Source (Approx. Life)			R03 (AAA) x 4 (150 hrs.)*[4]
Memory Backup			CR2032 x 1
Dimensions (W x D x H)			86 x 183 x 23 mm 3-3/8" x 7-7/32" x 29/32"
Weight (Approx.)			240 g

SPECIFICATIONS *(STANDARD)*

Model		EL-506W(BK/WH)	EL-520W(BK/WH)	EL-531WH(BK/BL/WH)	EL-509W(BK/WH)	EL-510R	EL-501W(BK/WH)
Display	Dot Matrix (Digit x Line)	12 x 1	12 x 1	12 x 1	12 x 1	11 x 1	—
	Segment (Mantissa + Exponent)	10 + 2	10 + 2	10 + 2	10 + 2	—	8 + 2
	3-Digit Punctuation	O	O	O	O	—	O
Memory		9	9	9	9	3	1
Functions		469	419	272	272	160	131
Functions	FSE Display	O	O	O	O	O	O (E only)
	Last Digit Correction	O	O	O	O	O	O
	Last Answer Recall	O	O	O	O	O	—
	π, +/–, EXP	O	O	O	O	O	O
	y^x, $\sqrt[x]{y}$, x^2, $\sqrt{\ }$, x^{-1}, $\sqrt[3]{\ }$	O	O	O	O	O	O
	x^3	O	O	O	O	—	—
	ln, log, e^x, 10^x	O	O	O	O	O	O
	sin, cos, tan, sin^{-1}, cos^{-1}, tan^{-1}	O	O	O	O	O	O
	sinh, cosh, tanh, $sinh^{-1}$, $cosh^{-1}$, $tanh^{-1}$	O	O	O	O	O	O
	n!, nPr, nCr	O	O	O	O	O	O (n! only)
	Random	O	O	O	O	O	O
	Random Dice	O	O	O	O	—	—
	Random Coin	O	O	O	O	—	—
	Random Integer	O	O	O	O	—	—
	Fraction Calculations	O	O	O	O	O	—
	→ rθ, → xy, → DEG, → DMS	O	O	O	O	O	O
	Physical Constants	52	52	—	—	—	—
	Metric Conversions	44	44	—	—	—	—
	Deg, Rad, Grad Modes	O	O	O	O	O	O
	Complex Number Calculation	O	O	—	—	—	O
	3-Var. Linear Equation	O	O	—	—	—	—
	Solving Cubic Equation	O	O	—	—	—	—
	Multi-Line Playback	O	O	O	O	—	—
	Playback	O	O	O	O	O	—
	Constant Calculation	O	O	O	O	O	O
	Chain Calculation	O	O	O	O	O	O
	Numerical Derivative	O	O	—	—	—	—
	Numerical Integral	O	O	—	—	—	—
	Formula Memory	O	O	—	—	—	—
	Algebraic Substitution	O	O	—	—	—	—
	Matrix Calculation	O	—	—	—	—	—
	Solver	O	O	—	—	—	—
	List Calculation	O	—	—	—	—	—
Bin/Pen/ Oct/ Hex Cal.	Bin/Pen/Oct/Hex	O	O	O	O	—	O*6
	Logical Operation	O	O	O	O	—	—
Statistics	Variable Statistics	1/2	1/2	1/2	1/2	1	1
	Regression Models	6	6	6	6	—	—
2-Key Roll-Over				O		—	—
Power Source (Approx. Life)		Solar/LR44 x 2 (5,000 hrs.)*5	Solar/LR44 x 2 (5,000 hrs.)*5	R6 (AA) x 1 (17,000 hrs.)*5	LR44 x 2 (5,000 hrs.)*5	LR44 x 2 (2,500 hrs.)*5	LR44 x 2 (3,000 hrs.)*5
Dimensions (W x D x H)		79.6 x 154.5 x 13.2 mm 3-1/8" x 6-3/32" x 17/32"	79.6 x 154.5 x 13.2 mm 3-1/8" x 6-3/32" x 17/32"	79.6 x 154.5 x 18.2 mm 3-1/8" x 6-3/32" x 23/32"	79.6 x 154.5 x 13.2 mm 3-1/8" x 6-3/32" x 17/32"	71.5 x 124 x 9.5 mm 2-13/16" x 4-7/8" x 3/8"	78.6 x 144 x 11.6 mm 3-3/32" x 5-21/32" x 15/32"
Weight (Approx.)		97 g	97 g	110 g	95 g	57 g	75 g

SPECIFICATIONS *(PROGRAMMABLE)*

Model		EL-5120
Dot Matrix Display (Digit x Line)		14 x 3
Memory		27
Functions		242
Functions	FSE Display	O
	Last Digit Correction	O
	Last Answer Recall	O
	π, +/–, EXP	O
	y^x, $\sqrt[x]{y}$, x^2, $\sqrt{\ }$, x^{-1}	O
	ln, log, e^x, 10^x	O
	sin, cos, tan, sin^{-1}, cos^{-1}, tan^{-1}	O
	sinh, cosh, tanh, $sinh^{-1}$, $cosh^{-1}$, $tanh^{-1}$	O
	n!, nPr, nCr	O
	Random	O
	Fraction Calculations	O
	→ rθ, → xy, → DEG, → DMS	O
	Deg, Rad, Grad Modes	O
	Numerical Integral	O
	Playback	O
	Solver	O
BIN/OCT/ HEX Cal.	Bin/Oct/Hex Modes	O
	Logical Operation	O
Statistics	Variable Statistics	1/2
	Regression Models	1
Programme Mode	Max. Programmes	25
	Max. Steps	1,211
	Programme Titles	O
	Subroutines, Branch	O
Power Source (Approx. Life)		CR2025 x 1 (1,100 hrs.)*4
Dimensions (W x D x H)		76 x 145 x 9.8 mm 3" x 5-23/32" x 3/8"
Weight (Approx.)		77 g

SPECIFICATIONS *(FINANCIAL)*

Model		EL-735	EL-733A
Display	Dot Matrix (Digit x Line)	12 x 1	—
	Segment	10	10
	3-Digit Punctuation	O	O
Memory		1	1
Cost/Sell Margin		O	O
Compound Interest		O	O
Amortisation of Payment		O	O
Bond Calculation		O	—
360-Day Calendar		O	—
Non-Uniform Cash Flow		O	O
Constant Calculation		O	O
Chain Calculation		O	O
2-Var. Statistics		O	O
Date Calculation		O	—
Database		O	—
Sign Change		O	O
Right Shift		O	
Power Source (Approx. Life)		CR2016 x 1 (800 hrs.)*5	LR44 x 2 (1,000 hrs.)*5
Dimensions (W x D x H)		69 x 132 x 7.8 mm 2-23/32" x 5-3/16" x 5/16"	76 x 143 x 8.5 mm 3" x 5-5/8" x 11/32"
Weight (Approx.)		69 g*7	110 g*8

*1 VLE = Value Linear Equation.
*2 CE-LK2 cable (sold separately) is required for hook-up to a PC.
    CE-451L cable (sold separately) is required to connect calculators to one another.
*3 Vernier® LabPro® or ImTech® DataLab® (each sold separately) and CE-LK2 are required.
*4 When used continuously for 5 minutes and displayed for 55 minutes per hourly use with
    temperature of approx. 20°C (68°F). Actual battery life may vary depending on usage.
*5 Continuous display. Actual battery life may vary depending on usage.
*6 Bin/Oct/Hex only.
*7 Excluding wallet.
*8 Including wallet.

PRINTING CALCULATORS

SPECIFICATIONS *(DESKTOP, SEMI-DESKTOP, HAND-HELD)*

Model	CS-4194HC	EL-2630PⅡ	EL-2607P	EL-1607P	EL-2910R	EL-2902C	EL-2901RH	EL-1801C	EL-1750P	EL-1611P
Display	14	12	12	12	12	12	12	12	12	12
Backlight	–	–	–	–	–	○	–	–	–	–
Memory	3 (GT)	2 (GT)	2 (GT)	2 (GT)	2 (GT)	2 (GT)	2 (GT)	1	1	1
Decimal Setting	F-6-4-3-2-1-0	F-6-3-2-1-0	F-6-3-2-1-0	F-6-3-2-1-0	F-6-3-2-1-0	F-3-2-1-0-A	F-6-3-2-1-0-A	F-2-0-A	F-3-2-1-0-A	F-3-2-1-0-A
Adding Mode	○	○	○	○	○					
Constant	○	○	○	○	○	○	○	○	○	○
Triple Zero Key	○	–	–	–	–	–	–	–	–	–
Double Zero Key	○	○	○	○	○	○	○	○	○	○
Round Up/Off/Down	Up/Off/Down	Up/Off/Down	Up/Off/Down	Up/Off/Down	Up/Off/Down	Off/Down	Up/Off/Down	Off/Down	Up/Off/Down	–
Item Counter	○	○	○	○	○	○	○	○	○	–
Grand Total	○	○	○	○	○	○	○	–	–	–
Cost/Sell/Margin	–	–	–	–	–	–	○	–	–	–
+Tax/-Tax Calculation	○/○	○/○	○/○	○/○	○/○	○/○	○/○	○/○	○/○	○/○
Mark Up	–	○	○	○	○	○	–	○	○	–
Conversion Function	–	○	–	○	–	–	–	–	–	–
Average	–	○	○	–	–	–	–	–	–	–
Printing Colour	2	2	2	2	2	2	2	2	2	1
Printing Speed	4.3 Lines/Sec.	4.8 Lines/Sec.	4.3 Lines/Sec.	3.0 Lines/Sec.	3.0 Lines/Sec.	3.0 Lines/Sec.	2.1 Lines/Sec.	2.1 Lines/Sec.	Approx. 1.6 Lines/Sec.	1.6 Lines/Sec.
Power Source	AC	AC	AC	AC	AC	AC	AC	AA x 4/AC*	AA x 4/AC*	AA x 4/AC*
Dimensions (W x D x H)	250 x 345 x 78 mm 9-27/32" x 13-19/32" x 3-1/6"	228 x 336 x 78 mm 8-31/32" x 13-7/32" x 3-1/16"	222 x 327 x 78 mm 8-3/4" x 12-7/8" x 3-1/16"	220 x 303 x 71.5 mm 8-21/32" x 11-15/16" x 2-27/32"	221 x 305 x 72 mm 8-11/16" x 12-1/16" x 2-27/32"	200 x 251 x 62 mm 7-27/32" x 9-7/8" x 2-7/16"	193 x 256 x 62.5 mm 7-19/32" x 10-3/32" x 2-15/32"	170 x 231 x 57.5 mm 6-11/16" x 9-15/16" x 2-1/4"	150 x 215 x 50 mm 5-29/32" x 8-15/32" x 1-31/32"	96 x 191 x 40 mm 3-3/4" x 7-1/2" x 1-9/16"
Weight (Approx.)	2,000 g	1,900 g	1,900 g	1,300 g	1,300 g	950 g	1,000 g	580 g	500 g	315 g

* AC adapter (optional)

OPTIONAL ACCESSORY CHART

Model	CS-4194HC	EL-2630PⅡ	EL-2607P	EL-1607P	EL-2910R	EL-2902C	EL-2901RH	EL-1801C	EL-1750P	EL-1611P
Paper Roll	★	★	★	★	★	★	★	★	★	EA-7100P (58 x ø25)★
Ink Ribbon	☆	☆	☆	–	–	–	–	–	–	–
Ink Roller	–	–	–	EA-781R-BK (black) EA-781R-RD (red)	EA-781R-BK (black) EA-781R-RD (red)	EA-781R-BK (black) EA-781R-RD (red)	EA-772R	EA-781R-BK (black) EA-781R-RD (red)	EA-772R	EA-732R
AC Adapter	–	–	–	–	–	–	–	EA-28A	EA-28A	EA-28A

★ *Part code: DPAPR1004CSZZ – 5 rolls/pack, 58 (W) x 80 (ø) mm*
☆ *Part code: URBNT1007CCZZ – Ink ribbon (black/red)*

SUPER CHECK & CORRECT

SPECIFICATIONS *(SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)*

Model	EL-792C	EL-782C	EL-771C
Display	12	12	10
3-Digit Punctuation	○	○	○
Memory	1 + GT	1	1
Line Counter	○	○	○
Storage Memory	102	102	102
Auto Replay	○	○	○
Correct/Insert/Delete	○/○/○	○/○/○	○/–/–
Repeat Entry	○	○	○
Change Calculation	○	○	○
Answer Check	○	○	○
+Tax/-Tax Calculation	○/○	○/○	○/○
Percent	○	○	○
Sign Change	○	–	○

Model	EL-792C	EL-782C	EL-771C
Grand Total	○	–	–
Last Answer Recall	○	–	–
Auto Power Off	○	○	○
Double Zero Key	○	–	–
2-Key Roll-Over	○	○	○
Decimal Setting	F-5-4-3-2-1-0-A	F-3-2-1-0-A	F-2-0
Round Up/Off/Down	Up/Off/Down	Off/Down	–
Right Shift	○	○	○
Tilt Display/Slant Display	○/–	○/–	–/○
Power Source	Solar/CR2032 x 1	Solar/CR2032 x 1	Solar/CR2032 x 1
Dimensions (W x D x H)	130 x 209 x 21 mm 5-1/8" x 8-7/32" x 13/16"	106 x 177 x 19 mm 4-3/16" x 6-31/32" x 3/4"	115 x 144 x 39 mm 4-17/32" x 5-21/32" x 1-17/32"
Weight (Approx.)	220 g	160 g	125 g

OFFICE CALCULATORS

SPECIFICATIONS *(DESKTOP/SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)*

Model	CS-2122H	CS-2130	EL-6138	EL-2135	EL-2125C	EL-2128R	EL-2139S
Display	12	12	16	12	12	12	12
3-Digit Punctuation	O	O	O	O	O	O	O
Memory	1 + GT	1 + GT	1 + GT	1 + GT	1 + GT	1 + GT	1
Resume Function	–	–	–	–	O	O	–
Line Counter	–	–	–	–	–	O	–
Answer Check	–	–	–	–	O*1	O	O*1
+Tax/-Tax Calculation	–/–	–/–	–/–	–/–	O/O	O/–	O/O
Day/Date Calculation	–	–	–	–	–	O	–
Conversion Function	–	–	–	–	3-rate	–	–
Root	O	O	O	O	–	–	O
Percent	O	O	O	O	O	O	O
Sign Change	O	O	O	O	O	O	O
Mark Up	O	O	–	O	–	O	–
Grand Total	O	O	O	O	O*2	O	O*2
Constant	O	O	O	O	O	O	O
Time Calculation	O	–	–	–	–	–	–
Auto Power Off	–	O	O	O	O	O	O
Double Zero Key	O	O	–	O	O	O	O
Triple Zero Key	O	–	O	–	–	–	–
2-Key Roll-Over	O	O	O	O	O	O	O
Decimal Setting	F-6-3-2-1-0-A	F-3-2-0-A	F-3-2-0-A	F-3-2-0-A	F-5-4-3-2-1-0-A	F-3-2-1-0-A	F-5-4-3-2-1-0-A
Round Up/Off/Down	Up/Off/Down	Up/Off/Down	Off/Down	Off/Down	Off/Down	Up/Off/Down	Up/Off/Down
Right Shift	O	O	O	O	O	O	O
Kick Stand	–	O	–	–	–	O (Double)	O
Tilt Display/Slant Display	–/O	–/–	–/O	–/O	O/–	–/–	–/–
Power Source	AC	Solar/CR2032 x 1	Solar/CR2032 x 1	Solar/CR2032 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1
Dimensions (W x D x H)	210 x 220 x 74 mm 8-9/32" x 8-21/32" x 2-29/32"	185 x 175 x 18 mm 7-9/32" x 6-7/8" x 23/32"	190 x 154 x 42 mm 7-15/32" x 6-1/16" x 1-21/32"	190 x 154 x 42 mm 7-15/32" x 6-1/16" x 1-21/32"	140 x 195 x 22.5 mm 5-19/32" x 7-21/32" x 29/32"	128 x 177 x 19 mm 5-1/32" x 6-31/32" x 3/4"	140 x 195 x 22 mm 5-19/32" x 7-21/32" x 7/8"
Weight (Approx.)	850 g	290 g	330 g	330 g	215 g	205 g	235 g

Model	EL-338F	EL-387R	EL-337C	EL-339S	EL-421M	EL-334F	EL-332A
Display	12	12	12	12	14	10	10
3-Digit Punctuation	O	O	O	O	O	O	O
Memory	1 + GT	1 + GT	1 + GT	1	1	1 + GT	1
Resume Function	–	O	O	–	O	–	–
Line Counter	–	O	–	–	–	–	–
Answer Check	–	O	O*1	O*1	–	–	–
Cost/Sell/Margin	O	–	–	–	–	–	–
+Tax/-Tax Calculation	–/–	O/–	O/O	O/O	O/O	O/O	O/O
Day/Date Calculation	–	O	–	–	–	–	–
Conversion Function	–	–	3-rate	–	–	–	–
Root	O	–	–	O	–	–	–
Percent	O	O	O	O	O	O	O
Sign Change	O	O	O	O	O	O	O
Mark Up	–	O	–	–	–	–	–
Grand Total	O	O	O*2	O*2	–	O	–
Constant	O	O	O	O	O	O	O
Auto Power Off	O	O	O	O	O	O	O
Double Zero Key	O	O	O	O	O	O	O
2-Key Roll-Over	O	O	O	O	O	O	O
Decimal Setting	F-3-2-0-A	F-3-2-1-0-A	F-3-2-0-A	F-3-2-1-0-A	–	–	–
Round Up/Off/Down	Off/Down	Off/Down	Off/Down	Off/Down	–	–	–
Right Shift	O	O	–	O	–	–	–
Kick Stand	O	O	–	O	O	O	–
Tilt Display/Slant Display	–/–	–/–	O/–	–/–	–/–	–/–	–/O
Power Source	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1
Dimensions (W x D x H)	133 x 200 x 18 mm 5-1/4" x 7-27/32" x 23/32"	107 x 169 x 19 mm 4-7/32" x 6-21/32" x 3/4"	108 x 175 x 22 mm 4-7/32" x 6-7/8" x 7/8"	108.6 x 176 x 18.4 mm 4-9/32" x 6-15/16" x 23/32"	108 x 170 x 15 mm 4-1/4" x 6-11/16" x 19/32"	108 x 170 x 15 mm 4-1/4" x 6-11/16" x 19/32"	101 x 142 x 34 mm 3-31/32" x 5-19/32" x 1-11/32"
Weight (Approx.)	230 g	158 g	165 g	165 g	160 g	160 g	115 g

*1 Includes "Round Off" mode. *2 Includes "Round Off/Down" modes.

OFFICE CALCULATORS

SPECIFICATIONS *(DESKTOP/SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)*

Model	EL-331A, EL-330A	EL-310A	EL-M711G	EL-M710G	EL-M700G
Display	10 (EL-331A), 8 (EL-330A)	8	10	8	8
3-Digit Punctuation	○	—	○	○	○
Memory	1	1	1	1	1
+Tax/-Tax Calculation	○/○	—/—	○/○	○/○	○/○
Conversion Function	—	—	○	○	—
Root	—	○	—	—	—
Percent	○	○	○	○	○
Sign Change	○	○	○	○	—
Constant	○	○	○	○	○
Auto Power Off	○	○	○	○	○
Double Zero Key	—	—	○	○	—
2-Key Roll-Over	○	—	○	○	○
Decimal Setting	— (EL-331A), F-2-0 (EL-330A)	—	—	—	—
Tilt Display/Slant Display	○/—	—/○	—/○	—/○	—/○
Power Source	Solar/LR44 x 1	Solar/LR1130 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1
Dimensions (W x D x H)	102 x 148 x 15 mm 4-1/32" x 5-13/16" x 19/32"	87 x 116 x 20 mm 3-13/32" x 4-9/16" x 25/32"	100 x 151.5 x 33 mm 3-15/16" x 5-31/32" x 1-5/16"	100 x 151.5 x 33 mm 3-15/16" x 5-31/32" x 1-5/16"	87 x 116.5 x 28.5 mm 3-7/16" x 4-19/32" x 1-1/8"
Weight (Approx.)	125 g	76 g	130 g	130 g	85 g

12/14 DIGIT CALCULATORS

SPECIFICATIONS *(NICE SIZE, MINI NICE SIZE, HAND-HELD/HARD COVER)*

Model	EL-145A	EL-125A	EL-144A	EL-124A	EL-143S	EL-123S
Display	14	12	14	12	14	12
3-Digit Punctuation	○	○	○	○	○	○
Memory	1	1	1	1	1	1
+Tax/-Tax Calculation	○/○	○/○	○/○	○/○	—/—	—/—
Root	—	—	—	—	○	○
Percent	○	○	○	○	○	○
Sign Change	○	○	—	—	—	—
Constant	○	○	○	○	○	○
Auto Power Off	○	○	○	○	○	○
Double Zero Key	○	○	○	○	○	○
2-Key Roll-Over	○	○	○	○	○	○
Right Shift	○	○	○	○	○	○
Tilt Display/Slant Display	○/—	○/—	○/—	○/—	—/—	—/—
Hard Cover	—	—	—	—	○	○
Power Source	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1
Dimensions (W x D x H)	110 x 168 x 15 mm 4-11/32" x 6-5/8" x 19/32"	110 x 168 x 15 mm 4-11/32" x 6-5/8" x 19/32"	102 x 148 x 15 mm 4-1/32" x 5-13/16" x 19/32"	102 x 148 x 15 mm 4-1/32" x 5-13/16" x 19/32"	72 x 115 x 12 mm 2-27/32" x 4-17/32" x 15/32"	72 x 115 x 12 mm 2-27/32" x 4-17/32" x 15/32"
Weight (Approx.)	160 g	160 g	125 g	125 g	66 g	66 g

PERSONAL CALCULATORS

SPECIFICATIONS *(WALLET/HAND-HELD, HARD COVER, CARD)*

Model	EL-480S	EL-344G	EL-W211G	EL-327S	EL-326S	EL-379S	EL-377S	EL-371S
Display	10	8	10	10	8	12	10	8
3-Digit Punctuation	O	O	O	O	O	O	O	O
Memory	1	1	1	1	1	1	1	1
Root	O	O	—	—	—	O	O	—
Percent	O	O	O	O	O	O	O	O
Mark Up	O	—	—	—	—	—	—	—
Sign Change	O	O	—	—	—	—	O	—
Constant	O	O	O	O	O	O	O	O
Metric Conversion	—	O	—	—	—	—	—	—
Cost/Sell/Margin	O	—	—	—	—	—	—	—
Decimal Setting	—	—	—	F-2-0	F-2-0	—	—	—
+Tax/-Tax Calculation	—/—	—/—	O/O	O/O	O/O	—/—	—/—	O/O
2-Key Roll-Over	—	—	O	O	O	O	O	O
Auto Power Off	O	—	O	O	O	O	O	O
Key Material	Rubber	Rubber	Plastic	Rubber	Rubber	Plastic	Plastic	Rubber
Wallet Case	O	O	—	O	O	—	—	O
Power Source (Approx. Life)	Solar/LR1130 x 1	Solar 50 Lux	Solar/CR2016 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1
Dimensions (W x D x H)	69 x 119 x 7.1 mm 2-23/32" x 4-11/16" x 9/32"	70 x 122 x 5.9 mm 2-3/4" x 4-13/16" x 7/32"	70 x 117 x 8.1 mm 2-3/4" x 4-19/32" x 5/16"	69 x 115 x 6.5 mm 2-23/32" x 4-17/32" x 1/4"	69 x 115 x 6.5 mm 2-23/32" x 4-17/32" x 1/4"	70 x 117 x 8 mm 2-3/4" x 4-19/32" x 5/16"	70 x 117 x 8 mm 2-3/4" x 4-19/32" x 5/16"	66 x 108 x 7 mm 2-19/32" x 4-7/32" x 9/32"
Weight (Approx.)	65 g[*1]	80 g[*1]	56 g	59 g[*2]	59 g[*2]	47 g	47 g	40 g

Model	EL-W200G	EL-250S	EL-240SA	EL-231L	EL-233S	EL-376S	EL-243S	EL-879M
Display	8	8	8	8	8	8	8	8
3-Digit Punctuation	O	O	O	—	—	—	—	O
Memory	1	1	1	1	1	1	1	1
Root	—	—	O	O	O	O	O	O
Percent	O	O	O	O	O	O	O	O
Sign Change	—	—	O	O	—	O	O	O
Constant	O	O	O	O	O	O	O	O
Last Answer Recall	—	—	O	—	—	—	—	—
Decimal Setting	—	F-2-0	F-2-0	—	—	—	—	—
+Tax/-Tax Calculation	O/O	O/O	—/—	—/—	—/—	—/—	—/—	—/—
2-Key Roll-Over	O	—	—	—	—	—	—	—
Auto Power Off	O	O	O	O	O	O	O	O
Key Material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Rubber	Rubber
Hard Cover	—	—	—	—	—	O	O	—
Wallet Case	—	—	—	—	—	—	—	O
Power Source (Approx. Life)	Solar/CR2016 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1	AA x 1 (17,500 hrs.)[*3]	LR1130 x 1 (1 yr.)[*4]	Solar/LR1130 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1
Dimensions (W x D x H)	60 x 105 x 8.1 mm 2-3/8" x 4-1/8" x 5/16"	71 x 116 x 16.5 mm 2-25/32" x 4-9/16" x 21/32"	71 x 116 x 16.5 mm 2-25/32" x 4-9/16" x 21/32"	69 x 115.5 x 20.5 mm 2-23/32" x 4-9/16" x 13/16"	60 x 103 x 8.3 mm 2-3/8" x 4-1/16" x 5/16"	72 x 115 x 12 mm[*5] 2-13/16" x 4-17/32" x 15/32"	64 x 105 x 11 mm[*5] 2-1/2" x 4-5/32" x 7/16"	99.6 x 67 x 7.3 mm 3-29/32" x 2-21/32" x 9/32"
Weight (Approx.)	45 g	58 g	58 g	71 g	35 g	66 g	51 g	59 g[*1]

*1 Including wallet. *2 Excluding wallet. *3 Continuous LCD display. Actual battery life may vary depending on usage.
*4 When used for 1 hour per day. Actual battery life may vary depending on usage. *5 When closed.

MERCHANDISING INFORMATION

BAR CODE LIST (EAN CODES)

ELECTRONIC DICTIONARIES

PW-E500 (Box)
4 974019 023830

PW-E300 (Box)
4 974019 024196

ELECTRONIC ORGANIZERS

ZQ-590A (Clamshell)
4 974019 024165

ZQ-290H (Clamshell)
4 974019 024172

ZQ-270P (Box + Strap)
4 974019 022574

ZQ-190P (Box + Strap)
4 974019 021836

ELECTRONIC ORGANIZERS

ZQ-P20H (Clamshell)
4 974019 024189

EL-6990P (Clamshell)
4 974019 023168

ZQ-P10 (Blister Pack)
4 974019 023632

EL-6910 (Box + Strap)
4 974019 023021

EL-6053S (Box + Strap)
4 974019 023038

SCIENTIFIC CALCULATORS

GRAPHING

EL-9900 (Box + Strap)
4 974019 022840

STANDARD

EL-506W (BK) (Box + Strap)
4 974019 024110

EL-506W (WH) (Blister Pack)
4 974019 024080

EL-520W (BK) (Box + Strap)
4 974019 024073

EL-520W (WH) (Blister Pack)
4 974019 024035

EL-531WH (BK) (Box + Strap)
4 974019 024028

EL-531WH (BL) (Blister Pack)
4 974019 024004

EL-531WH (BK) (Blister Pack)
4 974019 024011

EL-509W (BK) (Box + Strap)
4 974019 024257

EL-510R (Box + Strap)
4 974019 008875

EL-510R (Blister Pack)
4 974019 008882

EL-501W (BK) (Box + Strap)
4 974019 023878

PROGRAMMABLE

EL-5120 (Box + Strap)
4 974019 020136

FINANCIAL

EL-735 (Box)
4 974019 002217

EL-733A (Box + Strap)
4 974019 006840

PRINTING CALCULATORS

DESKTOP

CS-4194HC (Box)
4 974019 024370

EL-2630PII (Box)
4 974019 023823

EL-2607P (Box)
4 974019 023663

EL-1607P (Box)
4 974019 023656

EL-2910R (Box)
4 974019 022604

EL-2902C (Box)
4 974019 021997

EL-2901RH (Box)
4 974019 023335

SEMI-DESKTOP

EL-1801C (Box + Strap)
4 974019 009247

EL-1750P (Box + Strap)
4 974019 022703

HAND-HELD

EL-1611P (Box + Strap)
4 974019 009292

SUPER CHECK & CORRECT

SEMI-DESKTOP

EL-792C (Box + Strap)
4 974019 021898

NICE SIZE

EL-782C (Box + Strap)
4 974019 021904

MINI NICE SIZE

EL-771C (Box + Strap)
4 974019 021935

OFFICE CALCULATORS

DESKTOP/SEMI-DESKTOP

CS-2122H (Box)
4 974019 006468

CS-2130 (Box)
4 974019 001326

EL-6138 (Box + Strap)
4 974019 023373

EL-2135 (Box)
4 974019 006116

EL-2125C (Box + Strap)
4 974019 022772

EL-2125C (Blister Pack)
4 974019 022765

EL-2128R (Box + Strap)
4 974019 020716

EL-2139S (Box + Strap)
4 974019 023229

EL-2139S (Blister Pack)
4 974019 023236

EL-338F (Box + Strap)
4 974019 023380

EL-338F (Blister Pack)
4 974019 023397

NICE SIZE

EL-387R (Box + Strap)
4 974019 020723

OFFICE CALCULATORS

EL-337C (Box + Strap)	EL-337C (Blister Pack)	EL-339S (Box + Strap)	EL-339S (Blister Pack)	EL-421M (Box + Strap)	EL-334F (Box + Strap)
4 974019 022758	4 974019 022741	4 974019 023243	4 974019 023250	4 974019 023175	4 974019 022734

MINI NICE SIZE

EL-334F (Blister Pack)	EL-332A (Box + Strap)	EL-332A (Blister Pack)	EL-331A (Box + Strap)	EL-331A (Blister Pack)	EL-330A (Box + Strap)
4 974019 022727	4 974019 022796	4 974019 022789	4 974019 009452	4 974019 009445	4 974019 009476

EL-330A (Blister Pack)	EL-310A (Box + Strap)	EL-310A (Blister Pack)	EL-M711G (Window box + Strap)	EL-M711G (Blister Pack)	EL-M710G (Window box + Strap)
4 974019 009469	4 974019 009490	4 974019 009483	4 974019 023755	4 974019 023762	4 974019 023731

EL-M710G (Blister Pack)	EL-M700G (Window box + Strap)
4 974019 023748	4 974019 023717

12/14 DIGIT CALCULATORS

NICE SIZE — **MINI NICE SIZE** — **HAND-HELD/HARD COVER**

EL-145A (Box + Strap)	EL-125A (Box + Strap)	EL-144A (Box + Strap)	EL-124A (Box + Strap)	EL-143S (Box + Strap)	EL-123S (Box + Strap)
4 974019 024325	4 974019 024226	4 974019 024332	4 974019 024233	4 974019 024349	4 974019 024240

PERSONAL CALCULATORS

WALLET/HAND-HELD

EL-480S (Box + Strap)	EL-480S (Blister Pack)	EL-344G (Blister Pack)	EL-W211G (Window box + Strap)	EL-W211G (Blister Pack)	EL-327S (Box + Strap)
4 974019 021881	4 974019 021874	4 974019 023298	4 974019 023694	4 974019 023700	4 974019 022277

EL-327S (Blister Pack)	EL-326S (Box + Strap)	EL-326S (Blister Pack)	EL-379S (Box + Strap)	EL-379S (Blister Pack)	EL-377S (Box + Strap)
4 974019 022260	4 974019 009513	4 974019 009506	4 974019 023182	4 974019 023212	4 974019 022888

EL-377S (Blister Pack)	EL-371S (Box + Strap)	EL-371S (Blister Pack)	EL-W200G (Window box + Strap)	EL-W200G (Blister Pack)	EL-250S (Box + Strap)
4 974019 022871	4 974019 022819	4 974019 022802	4 974019 023670	4 974019 023687	4 974019 022215

EL-250S (Blister Pack)	EL-240SA (Box + Strap)	EL-240SA (Blister Pack)	EL-231L (Box + Strap)	EL-233S (Box + Strap)	EL-233S (Blister Pack)
4 974019 022208	4 974019 023557	4 974019 023366	4 974019 021072	4 974019 023014	4 974019 023007

HARD COVER — **CARD**

EL-376S (Box + Strap)	EL-376S (Blister Pack)	EL-243S (Box + Strap)	EL-243S (Blister Pack)	EL-879M (Box + Strap)
4 974019 009537	4 974019 009520	4 974019 009575	4 974019 009568	4 974019 023267

MERCHANDISING INFORMATION

PACKING LIST

Quantity/CTN may be different than shown, depending on location.

MODEL	PACKAGE TYPE	INDIVIDUAL CARTON					INNER CARTON			MASTER CARTON					
		G/W (kg) (Approx.)	DIMENSIONS (mm)			Q'ty/CTN	G/W (kg) (Approx.)	M3	Q'ty/CTN	G/W (kg) (Approx.)	DIMENSIONS (mm)			M3
			DEPTH	WIDTH	HEIGHT						DEPTH	WIDTH	HEIGHT	
ELECTRONIC DICTIONARIES														
PW-E500	Box	0.33	215	151	30	10	3.50	0.0110822	40	15.0	458	320	346	0.056398
PW-E300	Box	0.33	215	151	30	10	3.50	0.0110822	40	15.0	458	320	346	0.056398
ELECTRONIC ORGANIZERS														
ZQ-590A	Clamshell	0.33	260	190	42	10	3.50	0.013134	40	15.1	512	277	427	0.060559
ZQ-290H	Clamshell	0.33	260	190	52	10	3.60	0.023755	40	16.1	556	448	427	0.106361
ZQ-270P	Box + Strap	0.44	200+20	145	32	10	4.80	0.012099	40	21.3	448	351	372	0.058496
ZQ-190P	Box + Strap	0.35	222+20	147	32	10	3.70	0.012100	40	17.9	448	351	372	0.058496
ZQ-P20H	Clamshell	0.45	263	196	52	10	4.80	0.023755	40	20.9	556	448	427	0.106361
EL-6990P	Clamshell	0.35	249	182	36	10	3.90	0.024457	40	17.0	540	402	442	0.095949
ZQ-P10	Blister Pack	0.15	237	170	26	10	1.70	0.0125257	80	15.6	542	516	418	0.116903
EL-6910	Box + Strap	0.15	147+20	93	21	10	1.60	0.003932	80	13.7	476	336	250	0.039984
EL-6053S	Box + Strap	0.14	132+20	92	20	10	1.50	0.003398	80	12.2	456	308	248	0.034831
SCIENTIFIC CALCULATORS (GRAPHING, STANDARD, PROGRAMMABLE, FINANCIAL)														
EL-9900	Box + Strap	0.67	216+35	152	49	5	3.60	0.010370	20	15.2	480	276	382	0.050607
EL-506W	Box + Strap	0.19	161	83	30	10	2.00	0.004958	80	16.8	363	335	382	0.046454
EL-506W	Blister Pack	0.18	245	148	29	10	2.10	0.0151013	80	18.6	753	522	356	0.139932
EL-520W	Box + Strap	0.19	161	83	30	10	2.00	0.004958	80	16.8	363	335	382	0.046454
EL-520W	Blister Pack	0.18	245	148	29	10	2.10	0.0151013	80	18.6	753	522	356	0.139932
EL-531WH	Box + Strap	0.19	161	83	32	10	2.10	0.005266	80	17.7	363	355	382	0.049227
EL-531WH	Blister Pack	0.20	245	148	32	10	2.30	0.0151013	80	20.3	753	522	356	0.139932
EL-509W	Box + Strap	0.14	161	83	30	10	1.80	0.004958	80	15.6	363	335	382	0.046454
EL-510R	Box + Strap	0.12	131+20	79	22	10	1.30	0.003039	80	14.4	302	264	382	0.030456
EL-510R	Blister Pack	0.13	230	148	20	10	1.50	0.008722	80	12.8	486	442	374	0.080340
EL-501W	Box + Strap	0.13	150	82	24	10	1.50	0.004224	80	12.0	526	350	234	0.043080
EL-5120	Box + Strap	0.22	187+20	119	26	10	2.30	0.007699	80	19.2	564	416	294	0.068980
EL-735	Box	0.26	185	107	27	10	2.80	0.007250	80	23.0	610	410	275	0.068778
EL-733A	Box + Strap	0.22	186+20	107	25	10	2.30	0.006462	80	19.0	519	409	280	0.059436
PRINTING CALCULATORS (DESKTOP, SEMI-DESKTOP, HAND-HELD)														
CS-4194HC	Box	2.46	425	293	115	—	—	—	6	16.3	610	446	388	0.105559
EL-2630PⅡ	Box	2.57	438	265	136	—	—	—	6	17.0	548	456	433	0.108201
EL-2607P	Box	2.47	438	265	136	—	—	—	6	16.4	548	456	433	0.108201
EL-1607P	Box	1.86	434	264	132	—	—	—	6	12.7	546	452	433	0.106120
EL-2910R	Box	1.60	388	268	89	—	—	—	6	11.3	574	430	376	0.092804
EL-2902C	Box	1.20	367	257	114	—	—	—	6	8.4	532	385	376	0.077012
EL-2901RH	Box	1.36	362	228	110	—	—	—	6	9.3	476	384	367	0.067082
EL-1801C	Box + Strap	0.80	297+30	218	78	—	—	—	10	8.8	452	319	419	0.060415
EL-1750P	Box + Strap	0.80	290+30	188	73	—	—	—	10	8.9	398	314	409	0.051114
EL-1611P	Box + Strap	0.37	265+35	125	55	—	—	—	10	4.4	298	285	286	0.024290
SUPER CHECK & CORRECT (SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)														
EL-792C	Box + Strap	0.27	241+20	135	33	10	2.90	0.012224	40	12.7	472	351	348	0.057654
EL-782C	Box + Strap	0.20	183+20	111	29	10	2.20	0.007913	40	9.5	412	320	300	0.039552
EL-771C	Box + Strap	0.17	151+20	119	35	10	1.85	0.008394	40	8.1	381	346	316	0.041657
OFFICE CALCULATORS (DESKTOP/SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)														
CS-2122H	Box	1.50	330	268	118	—	—	—	6	9.8	552	371	356	0.072906
CS-2130	Box	0.45	210	181	32	10	4.70	0.015075	40	20.1	464	351	440	0.071660
EL-6138	Box + Strap	0.42	202	166	52	10	4.45	0.0209713	40	19.1	564	452	388	0.098912
EL-2135	Box	0.38	201	151	51	10	4.10	0.018133	40	17.7	544	436	380	0.090130
EL-2125C	Box + Strap	0.26	199+20	144	27	10	2.70	0.010018	40	11.7	446	300	366	0.048971
EL-2125C	Blister Pack	0.28	275	173	29	10	2.90	0.016901	40	12.5	592	315	424	0.079068
EL-2128R	Box + Strap	0.26	180+20	131	25	10	2.80	0.007887	40	12.0	410	281	340	0.039171
EL-2139S	Box + Strap	0.28	198	143	25	10	3.00	0.009104	40	12.8	448	286	350	0.044845
EL-2139S	Blister Pack	0.30	275	173	24	10	3.30	0.012984	40	14.1	482	305	424	0.062332
EL-338F	Box + Strap	0.29	204	136	27	10	3.10	0.0093934	40	13.2	450	306	336	0.046268
EL-338F	Blister Pack	0.30	275	173	25	10	3.20	0.0151106	40	14.1	558	305	424	0.072161
EL-387R	Box + Strap	0.20	172+20	111	24	10	2.10	0.005704	40	9.0	386	266	284	0.029160
EL-337C	Box + Strap	0.20	180+20	112	26	10	2.20	0.007097	40	9.6	406	291	302	0.035680

MODEL	PACKAGE TYPE	G/W (kg) (Approx.)	DIMENSIONS (mm)			Q'ty/CTN	G/W (kg) (Approx.)	M3	Q'ty/CTN	G/W (kg) (Approx.)	DIMENSIONS (mm)			M3
			DEPTH	WIDTH	HEIGHT						DEPTH	WIDTH	HEIGHT	
OFFICE CALCULATORS (DESKTOP/SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)														
EL-337C	Blister Pack	0.23	245	148	27	10	2.50	0.007172	40	11.1	592	312	374	0.069079
EL-339S	Box + Strap	0.20	179	111	22	10	2.20	0.005758	40	9.4	410	256	286	0.030019
EL-339S	Blister Pack	0.23	245	148	20	10	2.50	0.008388	40	10.6	402	275	374	0.041346
EL-421M	Box + Strap	0.20	173	115	24	10	2.20	0.006387	40	9.6	388	270	308	0.032266
EL-334F	Box + Strap	0.20	173+20	115	24	10	2.20	0.006387	40	9.6	388	270	308	0.032266
EL-334F	Blister Pack	0.23	245	148	25	10	2.50	0.011447	40	11.1	532	280	374	0.055711
EL-332A	Box + Strap	0.15	145+20	104	31	10	1.60	0.006492	40	7.2	340	338	286	0.032867
EL-332A	Blister Pack	0.17	245	148	38	10	3.50	0.015816	40	15.6	532	380	374	0.075608
EL-331A	Box + Strap	0.13	151+20	102	19	10	1.40	0.004158	40	6.0	350	220	282	0.021714
EL-331A	Blister Pack	0.14	250	148	19	10	1.50	0.008997	40	10.3	422	280	374	0.044192
EL-330A	Box + Strap	0.13	151+20	102	19	10	1.40	0.004158	40	6.0	350	220	282	0.021714
EL-330A	Blister Pack	0.14	250	148	19	10	1.50	0.008997	40	10.3	422	280	374	0.044192
EL-310A	Box + Strap	0.10	116+20	90	23	10	1.10	0.003524	40	5.0	278	260	258	0.018648
EL-310A	Blister Pack	0.12	230	148	23	10	1.40	0.009133	40	6.5	462	260	374	0.044925
EL-M711G	Window box + Strap	0.27	219	142	36	10	2.67	0.015128	40	11.9	498	400	364	0.072509
EL-M711G	Blister Pack	0.18	245	148	36	10	2.05	0.0133853	40	9.3	519	357	350	0.064850
EL-M710G	Window box + Strap	0.27	219	142	36	10	2.67	0.015128	40	11.9	498	400	364	0.072509
EL-M710G	Blister Pack	0.18	245	148	36	10	2.05	0.0133853	40	9.3	519	357	350	0.064850
EL-M700G	Window box + Strap	0.17	183	128	32	10	1.81	0.010535	40	8.2	426	360	366	0.051529
12/14 DIGIT CALCULATORS (NICE SIZE, MINI NICE SIZE, HAND-HELD/HARD COVER)														
EL-145A	Box + Strap	0.18	169+20	108	23	10	1.90	0.005789	40	8.3	386	260	294	0.029506
EL-125A	Box + Strap	0.18	169+20	108	23	10	1.90	0.005789	40	8.3	386	260	294	0.029506
EL-144A	Box + Strap	0.13	151+20	102	19	10	1.40	0.004158	40	6.0	350	220	282	0.021714
EL-124A	Box + Strap	0.13	151+20	102	19	10	1.40	0.004158	40	6.0	350	220	282	0.021714
EL-143S	Box + Strap	0.08	118+20	75	15	40	3.50	0.008087	160	14.9	342	330	354	0.039952
EL-123S	Box + Strap	0.08	118+20	75	15	40	3.50	0.008087	160	14.9	342	330	354	0.039952
PERSONAL CALCULATORS (WALLET/HAND-HELD, HARD COVER, CARD)														
EL-480S	Box + Strap	0.11	128+20	78	18	40	4.60	0.010010	160	19.4	394	335	354	0.046725
EL-480S	Blister Pack	0.12	230	122	17	40	5.60	0.023562	160	24.2	536	379	538	0.109292
EL-344G	Blister Pack	0.12	230	122	15	40	4.80	0.022517	160	20.8	536	259	538	0.074687
EL-W211G	Window box + Strap	0.12	183	106	16	40	4.92	0.018376	160	21.0	470	370	496	0.086254
EL-W211G	Blister Pack	0.09	210	122	16	40	3.78	0.0200694	160	16.5	536	357	489	0.093572
EL-327S	Box + Strap	0.09	118+20	72	15	40	3.70	0.007776	160	15.6	342	318	354	0.038500
EL-327S	Blister Pack	0.11	230	122	15	40	4.80	0.021473	160	20.7	536	347	538	0.100064
EL-326S	Box + Strap	0.09	118+20	72	15	40	3.70	0.007776	160	15.6	342	318	354	0.038500
EL-326S	Blister Pack	0.11	230	122	15	40	4.80	0.021473	160	20.7	536	347	538	0.100064
EL-379S	Box + Strap	0.07	120	73	13	40	3.10	0.007317	160	13.0	332	314	346	0.036070
EL-379S	Blister Pack	0.10	210	122	14	40	4.20	0.013945	160	18.0	525	501	250	0.065756
EL-377S	Box + Strap	0.07	120+20	73	13	40	3.10	0.007317	160	13.0	332	314	346	0.036070
EL-377S	Blister Pack	0.10	210	122	14	40	4.20	0.016531	160	18.4	564	540	266	0.081013
EL-371S	Box + Strap	0.07	112+20	71	15	40	2.80	0.007399	160	12.1	337	330	342	0.038034
EL-371S	Blister Pack	0.09	230	122	13	40	3.70	0.018406	160	16.6	536	300	538	0.086510
EL-W200G	Window box + Strap	0.10	171	96	16	40	4.30	0.015880	160	18.5	430	370	472	0.075095
EL-W200G	Blister Pack	0.08	210	122	16	40	3.30	0.0200694	160	14.8	536	357	489	0093572
EL-250S	Box + Strap	0.07	118+20	74	19	40	2.90	0.009955	160	12.4	422	326	354	0.048700
EL-250S	Blister Pack	0.09	230	122	19	40	3.90	0.026695	160	17.4	536	427	538	0.123133
EL-240SA	Box + Strap	0.08	121	75	21	40	3.40	0.0110139	160	15.2	464	331	357	0.054830
EL-240SA	Blister Pack	0.09	230	122	20	40	4.00	0.026478	160	17.4	547	417	522	0.119068
EL-231L	Box + Strap	0.10	109+20	73	24	40	4.20	0.012487	160	17.6	522	322	356	0.059838
EL-233S	Box + Strap	0.05	108+20	65	13	40	2.10	0.006257	160	9.1	302	290	358	0.031354
EL-233S	Blister Pack	0.05	180	122	14	40	2.60	0.012947	160	11.9	529	284	424	0.063700
EL-376S	Box + Strap	0.08	118+20	75	15	40	3.50	0.008087	160	14.9	342	330	354	0.039952
EL-376S	Blister Pack	0.11	230	122	15	40	4.60	0.021473	160	19.9	536	347	538	0.100064
EL-243S	Box + Strap	0.07	108+20	67	15	40	2.20	0.006804	160	9.4	342	298	334	0.034040
EL-243S	Blister Pack	0.07	230	122	14	40	3.30	0.020168	160	14.6	536	327	538	0.094296
EL-879M	Box + Strap	0.07	111+20	76	15	40	3.00	0.008421	160	12.7	362	338	340	0.041601

MANUAL LANGUAGES

Some manuals are not available in some languages. Please check the chart below.

MODEL	ENGLISH	GERMAN	FRENCH	SPANISH	ITALIAN	DUTCH	SWEDISH	PORTUGUESE	ARABIC	THAI	CHINESE	RUSSIAN	KOREAN	INDONESIAN	TURKISH
ELECTRONIC DICTIONARIES															
PW-E500	●														
PW-E300	●														
ELECTRONIC ORGANIZERS															
ZQ-590A	●														
ZQ-290H	●														
ZQ-270P	●								●		●				
ZQ-190P	●								●		●				
ZQ-P20H	●														
EL-6990P	●														
ZQ-P10	●														
EL-6910	●								●		●				
EL-6053S	●								●		●				
SCIENTIFIC CALCULATORS (GRAPHING, STANDARD, PROGRAMMABLE, FINANCIAL)															
EL-9900	●														
EL-506W	●			●				●	●	●		●		●	
EL-520W	●			●				●	●	●	●	●		●	
EL-531WH	●			●				●	●	●	●	●		●	
EL-509W	●								●	●					
EL-510R	●									●		●	●		
EL-501W	●			●				●	●	●		●		●	
EL-5120	●	●	●	●	●		●								
EL-735	●		●												
EL-733A	●		●												
PRINTING CALCULATORS (DESKTOP, SEMI-DESKTOP, HAND-HELD)															
CS-4194HC	●		●	●											
EL-2630PII	●		●	●											
EL-2607P	●		●	●											
EL-1607P	●		●	●											
EL-2910R	●		●	●											
EL-2902C	●		●	●											
EL-2901RH	●	●	●	●	●	●	●	●				●			
EL-1801C	●		●	●											
EL-1750P	●		●	●											
EL-1611P	●		●	●											
SUPER CHECK & CORRECT (SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)															
EL-792C	●	●	●	●	●	●	●		●	●	●	●	●		●
EL-782C	●	●	●	●	●	●	●		●	●	●	●	●		●
EL-771C	●	●	●	●	●	●	●		●	●	●	●	●		●
OFFICE CALCULATORS (DESKTOP/SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)															
CS-2122H	●		●	●											
CS-2130	●	●	●	●	●	●	●								
EL-6138	●			●					●	●	●	●			
EL-2135	●	●	●	●	●	●	●								
EL-2125C	●	●	●	●	●	●	●								
EL-2128R	●	●	●	●	●	●	●		●	●	●	●	●		●
EL-2139S	●	●	●	●	●	●	●					●			
EL-338F	●	●	●	●	●	●	●					●			
EL-387R	●	●	●	●	●	●	●		●	●	●	●	●		●
EL-337C	●	●	●	●	●	●	●					●			
EL-339S	●	●	●	●	●	●	●					●			
EL-421M	●	●	●	●					●			●			●
EL-334F	●	●	●	●	●	●	●					●			
EL-332A	●	●	●	●	●	●	●					●			
EL-331A	●	●	●	●	●	●	●					●			
EL-330A	●	●	●	●	●	●	●					●			
EL-310A	*No manual available. Operating instructions are printed on the product's box.*														
EL-M711G	●	●	●	●	●	●	●					●			
EL-M710G	●	●	●	●	●	●	●					●			
EL-M700G	●	●	●	●	●	●	●					●			
12/14 DIGIT CALCULATORS (NICE SIZE, MINI NICE SIZE, HAND-HELD/HARD COVER)															
EL-145A	●									●				●	
EL-125A	●														
EL-144A	●									●				●	
EL-124A	●														
EL-143S	●									●				●	
EL-123S	●														
PERSONAL CALCULATORS (WALLET/HAND-HELD, HARD COVER, CARD)															
EL-480S	●	●	●	●	●	●	●					●			
EL-344G	●		●	●											
EL-W211G	●	●	●	●	●	●	●					●			
EL-327S	●	●	●	●	●	●	●								
EL-326S	●	●	●	●	●	●	●					●			
EL-379S } EL-377S }	*No manual available. Operating instructions are printed on the product's box.*														
EL-371S	●	●	●	●	●	●	●								
EL-W200G	●	●	●	●	●	●	●					●			
EL-250S	●	●	●	●	●	●	●					●			
EL-240SA	●	●	●	●	●	●	●					●			
EL-231L EL-233S EL-376S EL-243S EL-879M	*No manual available. Operating instructions are printed on the product's box.*														

ACCESSORIES AND OPTIONS

■ BATTERY

Alkaline Manganese Battery

Model	LR1130		LR44				LR6		LR03	
Applicable model	EL-879M EL-869GⅡ EL-869G EL-480G EL-480S EL-430S EL-379S EL-377S EL-376L EL-376S EL-371S EL-342M EL-341S EL-331L EL-330L EL-327S	EL-326M EL-326S EL-320L EL-310A EL-250S EL-243L EL-243S EL-240L EL-240S EL-240SA EL-233L EL-233S EL-2135*1 EL-143S EL-123S	EL-M711G EL-M710G EL-M700G EL-733A EL-556L EL-546L EL-546VA EL-520L EL-520R EL-520V EL-520VA EL-520W EL-510R EL-509L EL-509R EL-509V	EL-509W EL-506R EL-506V EL-506W EL-5020 EL-501V EL-501W EL-500L EL-421M EL-420M EL-4125 EL-410M EL-387R EL-354M EL-339S EL-338F	EL-338A EL-337C EL-337M EL-335H EL-334A EL-334F EL-334L EL-332A EL-331A EL-330A EL-2139S EL-2128R EL-2125 EL-2125C EL-145A EL-144A	EL-125A EL-124A	EL-99T EL-6135 EL-531LH EL-531RH EL-531VH EL-531WH EL-2626H EL-242M EL-231L EL-1801C EL-1801L EL-1750P EL-1611L EL-1611P SE-300 ZQ-750PC	ZQ-700PC	EL-9900 EL-99T EL-9650 EL-965T EL-9600 EL-96T EL-9450 EL-945T EL-9400 PW-E500 PW-E300 ZQ-6800 ZQ-6600 ZQ-650 ZQ-640 ZQ-630	ZQ-590 ZQ-590A ZQ-570 ZQ-570PC ZQ-540P ZQ-520P

Lithium Battery

Model	CR2032							CR2025		CR2016
Applicable model	CS-2130 EL-9900 EL-99T EL-9650 EL-965T EL-9600	EL-96T EL-950 EL-9450 EL-945T EL-9400 EL-792C	EL-782C EL-771C EL-6990P EL-6910 EL-6890P EL-6850	EL-6810 EL-6790P EL-6750 EL-6710S EL-6690 EL-6660	EL-6620 EL-6138 EL-2135*1 ZQ-P20 ZQ-P20H ZQ-P10	ZQ-480P ZQ-470 ZQ-290Ⅱ ZQ-290H ZQ-290P ZQ-270P	ZQ-190P ZQ-180P ZQ-170 ZQ-160 ZQ-150	EL-6690 EL-6660 EL-6620 EL-6053 EL-6053S EL-6052	EL-5120	EL-W211G EL-W200G EL-735 EL-6092 EL-6051

■ AC ADAPTER

Model	EA-28A		
Applicable model	EL-2626H EL-1801C	EL-1801L EL-1750P	EL-1611L EL-1611P

■ HALF-SIZE RAM CARD with BATTERY

Model	CE-2H16M*2
Applicable model	PC-E500S

■ INK RIBBON

Model	URBNT1007CCZZ	
Applicable model	CS-4194 CS-4194H CS-4194HC CS-2195L CS-2194	EL-2631L EL-2630L EL-2630PⅡ EL-2615G EL-2607P

■ PAPER ROLL

Model	DPAPR1004CSZZ*3					EA-7100P*4
Applicable model	CS-4194 CS-4194H CS-4194HC CS-2195L CS-2194	EL-2910R EL-2902C EL-2901C EL-2901RH EL-2631L	EL-2630L EL-2626H EL-2615G EL-2607R EL-2195L	EL-1801C EL-1801L EL-1750P EL-1611L EL-1611P	EL-1607R EL-1195L	EL-1611L EL-1611P

■ INK ROLLER

Model	EA-732R		EA-772R		EA-781R-BK/EA-781R-RD*5				EA-741R
Applicable model	EL-1801L EL-1611L	EL-1611P	EL-2901RH EL-2626H	EL-1750P	EL-2910R EL-2902C	EL-2901C EL-2195L	EL-1801C EL-1607P	EL-1195L	EL-2607R EL-1607R

■ ACCESSORY LINK KIT

PC-Link Software & Cable

Model	CE-491FD (without cable)*6	CE-491W*6, 8					CE-690W (cable option)*6	CE-LK2	CE-LK1P*9
Applicable model	EL-6890P*7 EL-6790P*7 ZQ-480P*7 ZQ-190P*7 ZQ-180P*7	EL-6850 EL-6750 EL-6690 EL-6660 ZQ-5900	ZQ-5400 ZQ-470 ZQ-4600 ZQ-4500 ZQ-4400	ZQ-4300 ZQ-4200 ZQ-4000 ZQ-3200 ZQ-3000	ZQ-2800 ZQ-2700 ZQ-2600 ZQ-2500 ZQ-170	ZQ-160 ZQ-150	ZQ-8600 ZQ-6800 ZQ-6600	EL-9900	EL-9650 EL-9600 EL-9450 EL-9400

Docking Station

Model	CE-60K*10/CE-61T*11		
Applicable model	ZQ-650 ZQ-650PC	ZQ-640PC ZQ-630	ZQ-630PC ZQ-570

Level Converter

Model	CE-133T/CE-135T*12		
Applicable model	ZQ-8600 ZQ-6800	ZQ-6600 ZQ-6200	ZQ-6000

Set-to-Set Communication Cable

Model	CE-300L (4-pin)					CE-451L (3-pin)	CE-450L (3-pin)	CE-260L*8 (3-pin)	
Applicable model	EL-6690 EL-6660 ZQ-650 ZQ-650PC ZQ-640PC ZQ-630	ZQ-630PC ZQ-6200 ZQ-6000 ZQ-5900 ZQ-570 ZQ-570PC	ZQ-5400 ZQ-470 ZQ-4600 ZQ-4500 ZQ-4400 ZQ-4300	ZQ-4200 ZQ-4000 ZQ-3200 ZQ-3000 ZQ-2800 ZQ-2700	ZQ-2600 ZQ-2500 ZQ-170 ZQ-150	EL-9900	EL-9650 EL-9600 EL-9450 EL-9400	EL-6890P EL-6850 EL-6790P EL-6750 ZQ-480P ZQ-190P	ZQ-180P ZQ-160

*1 See the back of the calculator for compatibility.
*2 CE-2H16M: 16KB
*3 5 rolls/pack, 58 (W) x 80 (ø) mm
*4 58 (W) x 25 (ø) mm
*5 EA-781R-BK: Black, EA-781R-RD: Red
*6 English version only.
*7 Use either CE-491W or CE-491FD.
*8 May not be available in some regions as stocks are very limited.
*9 English and French version only.
*10 English version only. With PC Link & PIM software.
*11 Without software.
*12 CE-130T/CE-133T: for IBM-PC (RS232C), CE-135T: for MAC (RS422)

SHARP

SHARP CORPORATION OSAKA, JAPAN

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com