

SHARP

calculators & organizers
2005-2006



handy and functional
electronic devices



SHARP CALCULATORS & ORGANIZERS SOLUTIONS

SHARP

SHARP Innovations Continually Write New Chapters into the Pages of History.

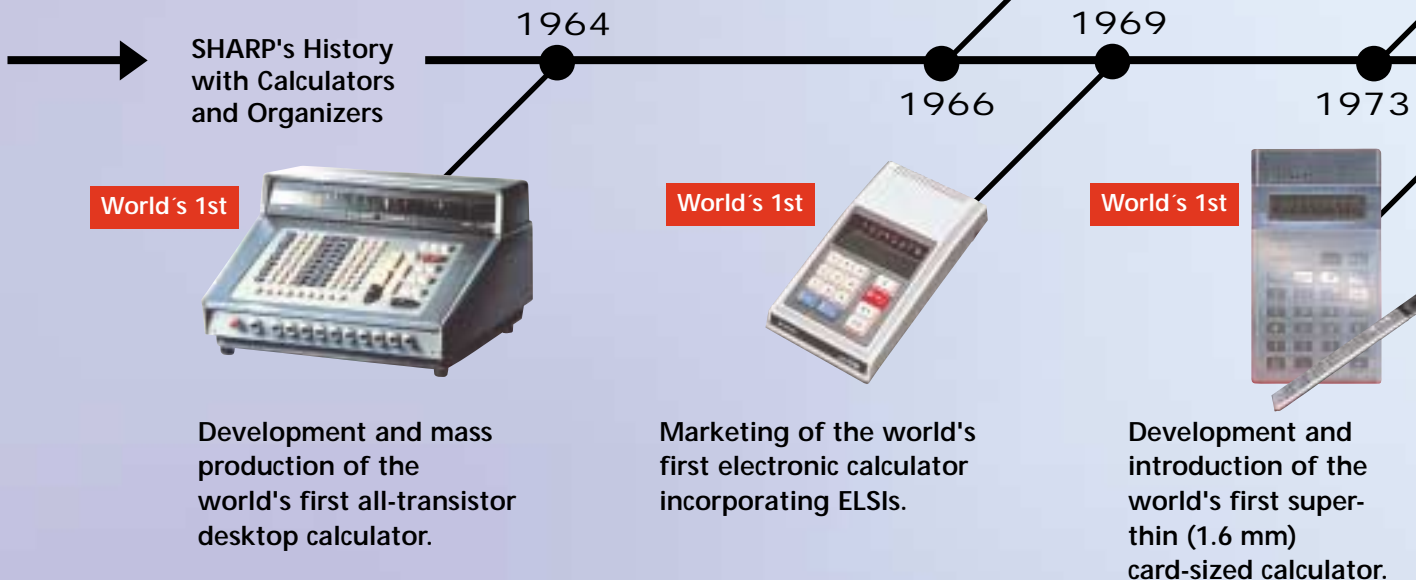
Forty years ago, SHARP gave the world its first electronic desktop calculator, now on display at the National Museum of Science & Industry as an innovative milestone. Succeeding generations carry on this trailblazing spirit, generating a remarkable stream of SHARP original creations.



1964

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

World's 1st



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 alltransistor desktop calculator.

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

World's 1st



1979

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



1988

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



1996

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



World's 1st

1997

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



2000

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



2002



2004



Euro Conversion



BackLight

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



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



Displays information and guidance in one of several selectable languages.



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.



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.



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.



Game

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



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.



Hard Case

Durable hard case protects calculator from damage.



D.A.L. Direct Algebraic Logic

Features easy key-in for algebraic equations.



2-Line 2-Line Display

Allows users to check the equation and answer at the same time.



Multi-Line Playback

Recalls any of the last 142 steps.



Constant Calculation

Eliminates the need to re-enter the constant when doing repeated calculations.



Chain Calculation

Allows the previous answer to be used in the next calculation.



Numerical Derivative

Allows you to easily find the answer to derivative calculations.



Numerical Integral

Allows you to easily find the answer to integral calculations.



Formula Memory

Formulas or equations can be stored to simplify calculations.



3-Digit Punctuation 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.



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.



Resume Plus Function

Resume Function plus Line Counter and Condition Symbol.



Answer Check

An "OK" sign appears when the calculation being checked matches the result of the first.



Average

Calculates average of inputted data.



Tax Calculation

Calculates prices with or without taxes.



Day/Date Calculation

Determines the number of days and a specific date from inputted dates.



2-COLOUR PRINT

Printed report is easy to read with red ink used for negative.



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.



Fast Sell Margin

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



Hard Cover

Comes with attached hard cover for extra protection and durability.



Plastic Buttons

Long-life plastic buttons.



Digital Voice Recorder

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PA-VR5E
PA-VR10E PCE

Digital Voice Recorder



Electronic Organizers

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ZQ-P20H
ZQ-P10

Electronic Organizer



Scientific Calculators

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EL-501WWH, EL-506WWH,
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EL-5250

Scientific Calculators



Printing Calculators

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Printing Calculators



Office Calculators

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Office Calculators



Personal Calculators

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Personal Calculators



Kids' Calculators

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EL-S10 BPK/BBL

Kids' Calculators



14 Digit Calculators

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EL-145A
EL-144A
EL-143S

14 Digit Calculators

Specifications & Merchandising Information

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Specifications Merchandising Information

Digital Voice Recorders



The Handy, High-Capacity Voice Recorder

Whether it's a week-long business trip or a weekend seminar, there's one personal assistant you can't afford to leave behind. One tool that frees you from constant note-taking, and allows you to get more involved in the discussion. Meet the slender, palm-fitting PA-VR10EPCE/5E digital voice recorder from SHARP. With the PA-VR10E PCE, you can record approximately 28 hours of meetings, lectures, or memos (approximately 14 hours for the PA-VR5E). Now bothersome, low-capacity cassettes are a thing of the past. Instead, you get reliable, extended voice recording and a host of practical conveniences. The PA-VR10EPCE/5E from SHARP — putting longer recording within your grasp.

PA-VR10EPCE, PA-VR5E

- 28 (PA-VR10EPCE)/14 (PA-VR5E) hours (approx.) recording capacity (LP mode)
- 4 folders: up to 127 separate files
- Personalised alarm
- Timer recording
- Timer stamp
- 2 microphone sensitivity settings
- Dimensions: 31 (W) x 111 (D) x 16.8 (H) mm
- Weight: approx. 66 g (w/ batteries) (PA-VR10EPCE)
approx. 65 g (w/ batteries) (PA-VR5E)



PA-VR5E

PA-VR10EPCE

An Array of User-Friendly Features

Time Stamp & Event Marking

The Time Stamp feature automatically marks each recording with the time and date, so you can keep track of your recordings more effectively. Event Marking, meanwhile, lets you "bookmark" relevant moments during a meeting or presentation, so you can find them more easily when you later review the recording. Up to 50 Event Marking numbers can be inserted into each file.

Schedule Recording

You needn't worry about forgetting to press the record button for a lesson, meeting or presentation. Schedule Recording allows you to preset the unit to record for a specified time period. This way, you can leave the unit unattended in a classroom or meeting location and still get the recording you need.

Message Alarm

Stay on top of your busy schedule, with the PA-VR10EPCE/5E's customizable alarm. Instead of a generic alarm tone, you can record a message to be played back at the time of your choosing. A customized message gives you a more detailed reminder about that important event or appointment. As many as 3 different alarms can be set at one time.

USB Connectivity (PA-VR10EPCE only)

The PA-VR10EPCE comes with a handy USB port that enables connection to a PC. USB connectivity allows you to easily transfer recorded files to your PC for data back-up.*

*The PA-VR10EPCE supports IBM PC/AT-compatible computers using one of the following operating systems: Microsoft® Windows® XP Professional/XP Home/Me/2000 Professional/98/98SE. One USB port (version 1.1 or above) is required to connect your PC to the digital voice recorder. A commercially available USB (A) male-USB (Mini-B) male cable is supplied in the package.

Note: If your PC is running Windows 98 or 98SE, you will need to install a dedicated USB driver included.

Stylish Design

The see-through acrylic face of the PA-VR10EPCE/5E provides more than just robust protection for the LCD screen; it also provides an elegant finishing statement. The centrally-located scroll wheel, meanwhile, offers design simplicity as well as effortless one-handed operation.



Other Features

- Clock Mode Screen (M/D, h:m:s) • File Skip • FF/FR
- 3-Way Speed Control (Fast/Reg/Slow) • Repeat Function • Voice Activation Function
- 2 Microphone Sensitivity Settings (HIGH/LOW)* • Hold Function

*The high-sensitivity mode (HIGH) enables you to record peripheral sound in addition to your intended target sound. The normal sensitivity mode (LOW), meanwhile, is ideal for dictation.



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)

12-Column by 3-Line
96KB Equivalent*
Multi-Language
Pen Touch

ZQ-P10 (Blister Back)
4 974019 023632



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
1MB
Flash Memory
BackLight
Multi-Language
Pen Touch
PC PIM Synchro (included)

ZQ-P20H (clamshell)
4 974019 024189



Includes PC-Link cable with serial port connector and software**
English model only

Synchronise with Microsoft® Outlook®* (ZQ-P20H)

- Synchronise contact information with your PC.



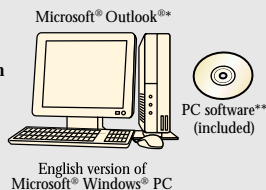
ZQ-P20H



Synchronisation

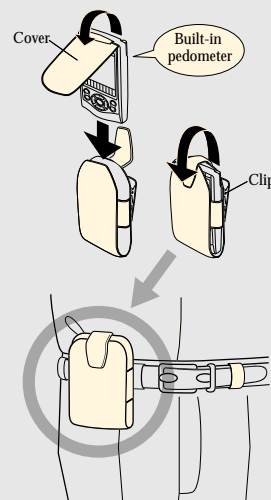
USB PC-Link cable (included)

(N.B. ZQ-P20H requires included PC-Link cable.)



English version of Microsoft® Windows® PC

Diet Function (ZQ-P20H)



Multi-Language Guidance Message (ZQ-P20A, ZQ-P10A, EL-6053S)

10-Language (ZQ-P20A, ZQ-P10A)

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

* Only capitalized letters can be entered in Greek Mode.

- 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.
- Compare with previous records of calories taken in or burned.



(ZQ-P20H display)

(N.B. Only the ZQ-P20H 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).

* 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.

Greater Efficiency and Ease of Use ADVANCED D.A.L.

Direct Algebraic Logic (D.A.L.) 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 $10 + 2 \times \sin 30 =$

• Non D.A.L. system key operation

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

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

2-Line Display 2-Line

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.

Equation: $\sin 30 + \cos 45 =$
 Answer: 1.207106781

Display Example

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): $30 \times 52 + 30 \times 26 = 2340$

The equations are different, but the answers are the same.

• Edit and recalculate

Calculation A: $5 \times \sin 30 = 2.5$

Calculation A': $5 \times \cos 30 = 4.330127019$

Change the previous equation and recalculate.

$\sin 30 = x / 5 \rightarrow x = 5 \times \sin 30$
 $\cos 30 = y / 5 \rightarrow y = 5 \times \cos 30$

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.

* EL-500W and EL-510R do not display "K" or "ANS".

• Constant Calculation

$\tan 30 \times 10 = 5.773502692$
 $\tan 30 \times 20 = 11.54700538$
 $\tan 30 \times 50 = 28.86751346$

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.)

Numerical Derivative/Integral d/dx ∫ dx

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 $y = x^2$

• Numerical Derivative 2ndF dddX

$X = -2$, $dx = 0.001$

$X^2 = -2$, $dx^2 = 0.001$, $d/dx = -4$

You can calculate the same derivative calculation repeatedly without having to input the formula again.

• Numerical Integral fdx

$[2, 3]$, $n = 100$

$a = 2$, $b = 3$, $n = 100$

$\int dx = 6.333333333$

You can calculate the same integral calculation repeatedly without having to input the formula again.

Formula Memory F1-F3 F2-F4

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 $=$

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

Solver Function

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

Equation " $\sin x - 0.5$ " (DEG)

$\sin x - 0.5$, Start? 0 , $dx^?$ 0.000001 , $X = 30$

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.

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

$\text{mat A} \times \text{mat B}$

$\text{mat A} \times \text{mat B} = 0$, $\text{ROW} = 2$, $\text{COLUMN} = 2$, $\text{MAT1, 1} = 7$

$\text{MAT1, 2} = 13$, $\text{MAT2, 1} = 19$, $\text{MAT2, 2} = 27$

$\begin{pmatrix} 7 & 13 \\ 19 & 27 \end{pmatrix}$



EL-506WWH

- 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

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

ADVANCED <i>D.A.L.</i>	D.A.L.	-F1 -F3 -F2 -F4
Upper: 12-Digit Lower: 10+2-Digit	2-Line	3-DIGIT PUNCTUATION
469 functions		2-KEY ROLL-OVER
a+K=X b+K=Y c+K=Z		
A+B=C √ C =D	d/dX	
∫ dx	P	

EL-506WWH
4 974019 024080



EL-520WWH

- 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

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

ADVANCED <i>D.A.L.</i>	D.A.L.	-F1 -F3 -F2 -F4	∫ dx
Upper: 12-Digit Lower: 10+2-Digit	2-Line	3-DIGIT PUNCTUATION	P
419 functions		2-KEY ROLL-OVER	
a+K=X b+K=Y c+K=Z			
A+B=C √ C =D	d/dX		

EL-520WWH
4 974019 024035



EL-531WHWH

- 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 23/23"
- Weight: approx. 110 g

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

ADVANCED <i>D.A.L.</i>	D.A.L.	3-DIGIT PUNCTUATION
Upper: 12-Digit Lower: 10+2-Digit	2-Line	2-KEY ROLL-OVER
272 functions		
a+K=X b+K=Y c+K=Z		P
A+B=C √ C =D		

EL-531WHWH
4 974019 023984

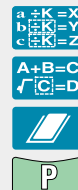


EL-501WWH

- 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

Constant/chain calculations
Stylish design

10 (8+2)-Digit
131 functions



EL-501WWH
(Box + Strap)
4 974019 023908



EL-5250

- Programmable up to 4,096 steps
- Solver function
- Power source: CR2032 x 2
- Dimensions: 79.6 (W) x 154.5 (D) x 15.2 (H) mm
3-1/8" x 6-3/32" x 19/32"
- Weight: approx. 97 g

14 + 2-Digit
by 3-Line

4,096 Steps
423 functions



EL-5250
(Box + Strap)
4 974019 024677



CS-2635RH

- Printing speed: 4.3 lines/sec.
- Power source: AC only
- Dimensions: 250 (W) x 345 (D) x 78 (H) mm
- Convenient 2-memory system (M&I memory)
- Weight: approx. 2.000 g

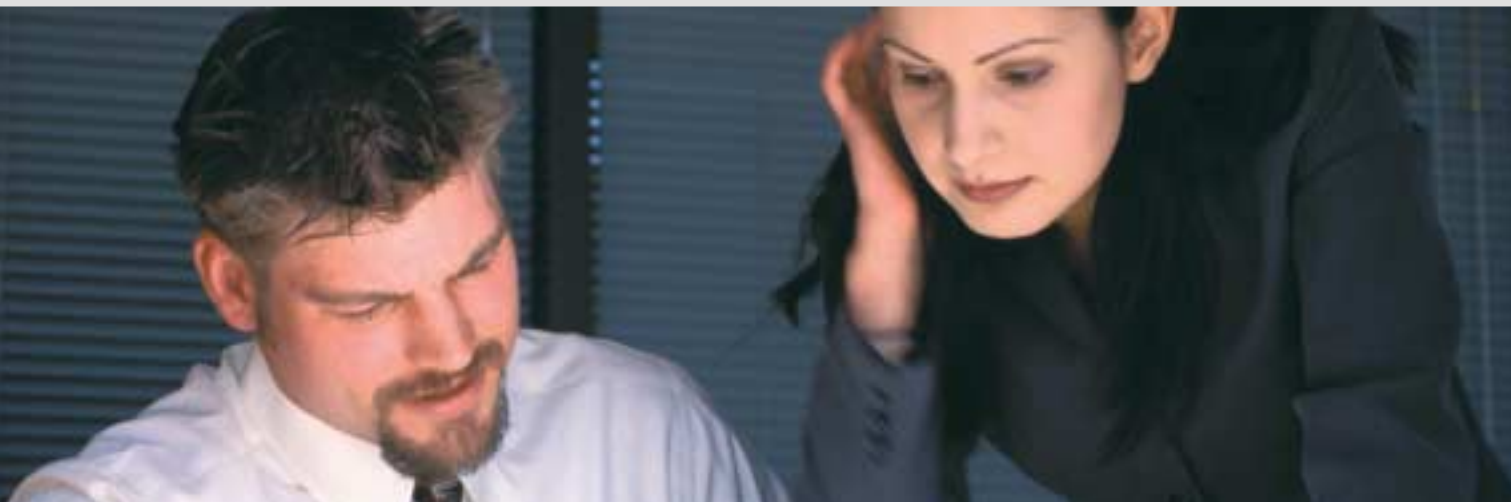
Printing Calculators

12-Digit

2-COLOUR PRINT



CS-2635RH
4 974019 023564





EL-2607P

- 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

12-Digit

2-COLOUR PRINT



AVG



±TAX

EL-2607P (Box)
4 974019 023663



EL-2901PIII

- 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

12-Digit

2-COLOUR PRINT



±TAX

AVG

DAY/DATE

Scientific Calculators

Printing Calculators



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

Semi Desktop

12-Digit

2-COLOUR PRINT



±TAX



EL-1801E

Only for Hungary, Czech

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



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

Semi Desktop

12-Digit



±TAX



EL-1611E

Only for Hungary, Czech

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

Internal Paper-Roll Supply

External Paper-Roll Supply



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



EL-2125E

Only for Hungary, Czech

12-Digit

Tilt Display



ANSWER CHECK

± TAX

RESUME

3-DIGIT PUNCTUATION

2-KEY ROLL-OVER

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



EL-338G

- Twin power (Solar cell & LR44 x 1)
- Dimensions: 135 (W) x 200 (D) x 17 (H) mm
5-5/16" x 7-7/8" x 21/32"
- Weight: approx. 220 g



EL-338E

Only for Hungary, Czech

12-Digit

Tilt Display



± TAX



EL-338G (Box+Strap)
4 974019 024462





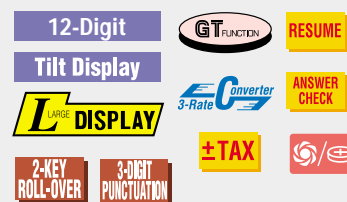
EL-337C

- 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



Only for Hungary, Czech

Nice Size



EL-337C (Box + Strap)
4 974019 022758



EL-421M

- 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



EL-421M (Box + Strap)
4 974019 023175

Convenient Functions

RESUME Resume Function

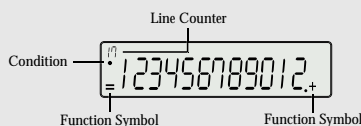
To resume operations after the Auto Power-Off Function has taken effect, press the Resume key. The display will return to the calculation that was in progress, providing the following indicator:

- **Function Symbol:** indicates the last function used in the calculation.

RESUME PLUS Resume Plus (Resume Function plus Line Counter and Condition Symbol)

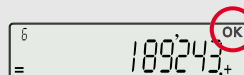
Adds the following indicators as well as Resume Function:

- **Line Counter:** shows number of figures entered.
- **Condition Symbol:** indicates the next figure should be entered.



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.



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



Only for Hungary, Czech



EL-334F (Box + Strap)
4 974019 022734

They make life a lot simpler.



EL-332A

- Power source: Twin power (Solar cell & LR44 x 1)
- Dimensions: 101 (W) x 142 (D) x 34 (H) mm
3-13/32" x 5-19/32" x 1-11/32"
- Weight: approx. 115 g

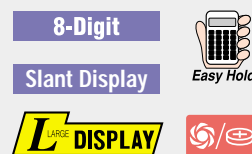


EL-332A (Box + Strap)
4 974019 022796



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



EL-310A (Box + Strap)
4 974019 009490



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



EL-M700G
(Window box + Strap)
4 974019 023717



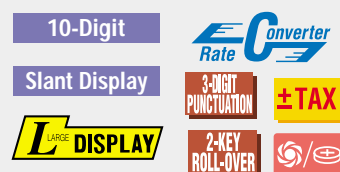
EL-M711G

- 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



EL-M711E

Only for Hungary, Czech



EL-M711G
(Window box + Strap)
4 974019 023755



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

EL-250E

Only for Hungary, Czech



EL-250S (Box + Strap)
4 974019 022215



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

EL-233E

Only for Hungary, Czech



EL-233S (Box + Strap)
4 974019 023014



EL-480SR

- Recall function
- 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)

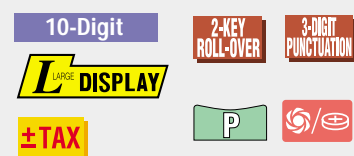


EL-480SR (Box + Strap)
4 974019 021881



EL-W211G

- Power source: Twin power (Solar cell & CR2016 x1)
- 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



EL-W211G
(Window box + Strap)
4 974019 023694



EL-376S

- Power source: Twin power (Solar cell & LR1130x1)
- 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

EL-376E

Only for Hungary, Czech

8-Digit

L LARGE DISPLAY



EL-376E (Box + Strap)
4 974019 009537



EL-243S

- Power source: Twin power (Solar cell & LR1130x1)
- 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

8-Digit

L LARGE DISPLAY



EL-243S (Box + Strap)
4 974019 009575

For More Colourful Calculations

With basic arithmetical functions and large, easy-to-read displays, the EL-S10 is a joy to use. The light and compact EL-S10 has a protective cover, so you can take it anywhere. It features practical, easy-to-click plastic keys and cute, colourful designs that are fun for everybody, not just for kids.

EL-S10(PK)

EL-S10(BL)



EL-S10 BPK/BBL

- Power source: LR1130 x 1
- Dimensions: 70 (W) x 107 (D) x 10.5 (H) mm (Closed)
2-3/4" x 4-7/32" x 13/32"
- Weight: approx. 54 g

NEW

8-Digit

3-DIGIT PUNCTUATION

±TAX

LARGE DISPLAY

P

Easy Hold

EL-S10 BPK
4 974019 024936
EL-S10 BBL
4 974019 024929

Easy Hold

Hard Cover

14 Digit Calculators

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

14-Digit

Tilt Display

LARGE DISPLAY

Easy Hold

2-KEY ROLL-OVER

3-DIGIT PUNCTUATION

Easy Hold

±TAX

EL-145A (Box + Strap)
4 974019 024325

Mini Nice Size

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

14-Digit

Tilt Display

LARGE DISPLAY

Easy Hold

2-KEY ROLL-OVER

3-DIGIT PUNCTUATION

Easy Hold

±TAX

EL-144A (Box + Strap)
4 974019 024332

Hand-held/Hard cover

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

14-Digit

LARGE DISPLAY

Hard Cover

2-KEY ROLL-OVER

3-DIGIT PUNCTUATION

P

Easy Hold

EL-143S (Box + Strap)
4 974019 024349



Specifications

Model	PA-VR10EPCE	PA-VR5E
Recording Time	LP mode: 28 hours	LP mode: 14 hours
	SP mode: 8.5 hours	SP mode: 4 hours
	HQ mode: 4 hours	HQ mode: 2 hours
Internal Memory	64MB	32MB
Message Alarm	○	○
Schedule Recording	○	○
Event Marking	○	○
Silence Skip Recording	○	○
Microphone Sensitivity	High/Low	High/Low
LED Indicator	○	○
File Repeat	○	○
File Skip	○	○
Earphone/Microphone	○/○	○/○
Recording Method (Monaural)	○	○
USB Connection	○	—
USB External Memory	○	—
Clock Accuracy	Average ±1 min./month (at 25°C)	Average ±1 min./month (at 25°C)
Power Source	AAA-size alkaline batteries (LR03) x 2	AAA-size alkaline batteries (LR03) x 2
Dimensions (W x D x H)	31 x 111 x 16.8 mm 1-7/32" x 4-3/8" x 21/32"	31 x 111 x 16.8 mm 1-7/32" x 4-3/8" x 21/32"
Weight (Approx.)	66 g	65 g

Electronic Organizers

Specifications

Model	ZQ-P20H	ZQ-P10
Display	12-column x 3-line	12-column x 3-line
Backlight	○	—
Memory Capacity	1MB (Flash memory)* ¹	96KB equivalent* ¹¹
Max. Input Characters	36 + 72 + 36 + 36* ¹⁰	36 + 36 + 36 + 36* ¹⁰
Capacity Numbers	72* ¹⁰	72* ¹⁰
Keyboard	—	—
Lowercase Letters	○ (Except Greek mode)	○ (Except Greek mode)
European Characters	○	○
Schedule with Alarm	○	○
Calendar	—	—
Telephone Directory	2-file	2-file
E-mail Address	in Tel directory	in Tel directory
Web Address (URL)	in Tel directory	in Tel directory
Memo	○	○
Home Clock with Alarm	○	○
World Clock	42-city	29-city
Calculation	10-digit	10-digit
Currency/Unit Conversion	○	○
Anniversary	—	—
Spell Checker	○ (Approx. 10,000 English words)	—
English/Spanish Word Translator	—	—
Game	○	○
Secret	○* ²	○* ²
Diet Function	○* ⁷	—
PC Link	Included (Microsoft® Outlook® synchronise capability)	—
Power Source	CR2032 x 2 (5,000 hrs.* ³ ; 2,000 hrs.* ⁴ ; 6 mos.* ⁵) ⁵	CR2032 x 1 (2 yrs.* ⁴) ⁵
	Flash memory	—
	Uses main battery	—
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"	64 x 97 x 14.8 mm 2-17/32" x 3-13/16" x 19/32"
Weight (Approx.)	104 g	72 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-290A: 1.5MB equivalent (User area: approx. 896KB for data storage)

ZQ-P20A: 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 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 displayed for 30 minutes, alarm on for 20 seconds and key touch tone turned on/off 100 times per day.

*g 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)

Specifications (Standard)

Model	EL-506W(WH)	EL-520W(WH)	EL-531WH(WH)	EL-501W(WH)
Display				
Dot Matrix (Digit x Line)	12 x 1	12 x 1	12 x 1	—
Segment (Mantissa + Exponent)	10 + 2	10 + 2	10 + 2	10 (8 + 2)
3-Digit Punctuation	○	○	○	—
Calculation Results (Mantissa + Exponent)	10 + 2	10 + 2	10 + 2	8 + 2
Memory	9	9	9	1
Functions	469	419	272	131
FSE Display	○	○	○	○ (S only)
Last Digit Correction	○	○	○	—
Last Answer Memory	○	○	○	—
π , +/-, EXP	○	○	○	○
y^x , $\sqrt[y]{x}$, x^2 , \sqrt{x} , x^{-1} , $\sqrt[3]{x}$	○	○	○	○
x^3	○	○	○	—
\ln , \log , e^x , 10^x	○	○	○	○
\sin , \cos , \tan , \sin^{-1} , \cos^{-1} , \tan^{-1}	○	○	○	○
\sinh , \cosh , \tanh , \sinh^{-1} , \cosh^{-1} , \tanh^{-1}	○	○	○	○
$n!$, nPr , nCr	○	○	○	○ (n! only)
Random	○	○	○	○
Random Dice	○	○	○	—
Random Coin	○	○	○	—
Random Integer	○	○	○	—
Fraction Calculations	○	○	○	—
Reduction Study	—	—	—	—
Highest Common Factor/Lowest Common Multiple	—	—	—	—
Quotient and Remainder Calculation	—	—	—	—
$\rightarrow r\theta$, $\rightarrow xy$, $\rightarrow DEG$, $\rightarrow DMS$	○	○	○	○
Physical Constants	52	52	—	—
Metric Conversions	44	44	—	—
Deg, Rad, Grad Modes	○	○	○	○
Complex Number Calculation	○	○	—	○
2-Var./3-Var. Linear Equations	○	○	—	—
Solving Quadratic/Cubic Equations	○	○	—	—
Multi-Line Playback	○	○	○	—
Playback	○	○	○	—
Constant Calculation	○	○	○	○
Chain Calculation	○	○	○	○
Numerical Derivative	○	○	—	—
Numerical Integral	○	○	—	—
Formula Memory	○	○	—	—
Algebraic Substitution	○	○	—	—
Matrix Calculation	○	—	—	—
Solver	○	○	—	—
List Calculation	○	—	—	—
Statistics				
Bin/Oct/Hex	○	○	○	○ ^{*10}
Logical Operation	○	○	○	—
1-Var./2-Var. Statistics	○	○	○	○ ^{*9}
Regression Calculations	6 ^{*6}	6 ^{*6}	6 ^{*6}	—
2-Key Roll-Over	○	○	○	—
Power Source (Approx. Life)	Solar/LR44 x 2 (5,000 hrs.) ^{*7}	Solar/LR44 x 2 (5,000 hrs.) ^{*7}	R6 (AA) x 1 (17,000 hrs.) ^{*7}	LR44 x 2 (3,000 hrs.) ^{*7}
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"	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	75 g

Specifications (Programmable)

Model	EL-5250
Dot Matrix Display (Digit x Line)	14 x 3
Calculation Results (Mantissa + Exponent)	10 + 2
Memory	27
Functions	423
FSE Display	○
Last Digit Correction	○
Last Answer Memory	○
π , +/-, EXP	○
y^x , $\sqrt[y]{x}$, x^2 , \sqrt{x} , 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}	○
$n!$, nPr , nCr	○
Random	○
Fraction Calculations	○
$\rightarrow r\theta$, $\rightarrow xy$, $\rightarrow DEG$, $\rightarrow DMS$	○
Deg, Rad, Grad Modes	○
Numerical Integral	○
Playback	○
Solver	○
Bin/Oct/Hex Modes	○
Logical Operation	○
1-Var./2-Var. Statistics	○
Regression Calculations	6 ^{*6}
Max. Programmes	99
Max. Steps	4,096
Programme Titles	○
Subroutines, Branch	○
Power Source (Approx. Life)	CR2032 x 2 (1,800 hrs.) ^{*11}
Dimensions (W x D x H)	79.6 x 154.5 x 15.2 mm 3-1/8" x 6-3/32" x 19/32"
Weight (Approx.)	97 g

*6 Linear: $y = a + bx$, Exponential: $y = aebx$, Logarithmic: $y = a + b \ln x$, Power: $y = axb$, Inverse: $y = a + bx - 1$, Quadratic: $y = a + bx + cx^2$

*7 Continuous display. Actual battery life may vary depending on usage.

*11 When used continuously for 5 minutes and displayed for 55 minutes per hourly use with temperature of approx. 25°C (77°F). Actual battery life may vary depending on usage.

Specifications (Desktop)

Specifications (Desktop, Semi-Desktop, Hand-Held)

Model	EL-2607P	Model	EL-2901P III	EL-1801C	EL-1611P	
Display	12	Display	12	12	12	
Memory	2 (GT)	Backlight	—	—	—	
Decimal Setting	F-6-3-2-1-0	Memory	2 (GT)	1	1	
Adding Mode	∪	Decimal Setting	F-6-3-2-1-0-A	F-2-0-A	F-3-2-1-0-A	
Constant	∪	Adding Mode	∪	∪	∪	
Triple Zero Key	—	Constant	∪	∪	∪	
Double Zero Key	∪	Double Zero Key	∪	∪	∪	
Round Up/Off/Down	Up/Off/Down	Round Up/Off/Down	Up/Off/Down	Off/Down	—	
Item Counter	∪	Item Counter	∪	∪	—	
Grand Total	∪	Grand Total	∪	—	—	
Cost/Sell/Margin	—	Cost/Sell/Margin	∪	—	—	
+Tax/-Tax Calculation	∪/∪	+Tax/-Tax Calculation	∪/∪	∪/∪	∪/∪	
Mark Up	∪	Mark Up	—	∪	—	
Conversion Function	—	Conversion Function	—	—	—	
Average	∪	Average	—	—	—	
Printing Colours	2	Printing Colours	2	2	1	
Printing Speed	4.3 Lines/Sec.	Printing Speed	2.1 Lines/Sec.	2.1 Lines/Sec.	1.6 Lines/Sec.	
OPTIONAL ACCESSORY CHART	Paper Roll	OPTIONAL ACCESSORY CHART	Paper Roll	★	EA-7100P (58 x ø25)★	
	Ink Ribbon		Ink Roller	EA-772R	EA-781R-BK (black) EA-781R-RD (red)	EA-732R
	Ink Roller		AC Adapter	—	EA-28A	EA-28A
Power Source	AC	Power Source	AC	AA x 4/AC*	AA x 4/AC*	
Dimensions (W x D x H)	222 x 327 x 78 mm 8-3/4" x 12-7/8" x 3-1/16"	Dimensions (W x D x H)	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"	96 x 191 x 40 mm 3-3/4" x 7-1/2" x 1-9/16"	
Weight (Approx.)	1,900 g	Weight (Approx.)	1,000 g	580 g	315 g	

* AC adapter (optional), H Part code: DPAPR1004CSZZ – 5 rolls/pack, 58 (M) x 80 (ø) mm, I Part code: URBNT1007CCZZ – Ink ribbon (black/red)

Specifications (Hand-Held, Hard Cover, Card)

Model	EL-480 SR	EL-W211G	EL-376S	EL-243S	Model	EL-250S	EL-233S
Display	8	10	8	8	Display	8	8
3-Digit Punctuation	∪	∪	—	—	3-Digit Punctuation	∪	—
Memory	1	1	1	1	Memory	1	1
Root	∪	—	∪	∪	Root	∪	∪
Percent	∪	∪	∪	∪	Percent	∪	∪
Mark Up	—	—	—	—	Mark Up	—	—
Sign Change	∪	—	∪	∪	Sign Change	—	—
Constant	∪	∪	∪	∪	Constant	∪	∪
Metric Conversion	∪	—	—	—	Last Answer Memory	—	—
Cost/Sell/Margin	—	—	—	—	Decimal Setting	F-2-0	—
Decimal Setting	—	—	—	—	+Tax/-Tax Calculation	∪/∪	/
+Tax/-Tax Calculation	/	∪/∪	/	/	2-Key Roll-Over	—	—
2-Key Roll-Over	—	∪	—	—	Auto Power Off	∪	∪
Auto Power Off	—	∪	∪	∪	Key Material	Plastic	Plastic
Key Material	Rubber	Plastic	Plastic	Rubber	Wallet Case	—	—
Hard Cover	—	—	∪	∪	Power Source (Approx. Life)	Solar/LR1130 x 1	LR1130 x 1 (1 yr.) ^{*4}
Wallet Case	∪	—	—	—	Dimensions (W x D x H)	71 x 116 x 16.5 mm 2-25/32" x 4-9/16" x 21/32"	60 x 103 x 8.3 mm 2-3/8" x 4-1/16" x 5/16"
Power Source	Solar 50 Lux	Solar/CR2016 x 1	Solar/LR1130 x 1	Solar/LR1130 x 1	Weight (Approx.)	58 g	35 g
Dimensions (W x D x H)	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"	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"			
Weight (Approx.)	80 g ^{*1}	56 g	66 g	51 g			

*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.

Specifications (Desktop, Semi-Desktop, Nice Size)

Model	EL-2125C	Model	EL-338G
Display	12	Display	12
3-Digit Punctuation	0	3-Digit Punctuation	0
Memory	1 + GT	Memory	1 + GT
Resume Function	0	Answer Check	—
Line Counter	—	Cost/Sell/Margin	0
Answer Check	0 ^{*1}	+Tax/-Tax Calculation	0/0
+Tax/-Tax Calculation	0/0	Root	—
Day/Date Calculation	—	Percent	0
Conversion Function	3-rate	Sign Change	—
Root	—	Grand Total	0
Percent	0	Constant	0
Sign Change	0	Time Calculation	—
Mark Up	—	Auto Power Off	0
Grand Total	0 ^{*2}	Double Zero Key	—
Constant	0	2-Key Roll-Over	0
Time Calculation	—	Decimal Setting	F-3-2-0-A
Auto Power Off	0	Round Up/Off/Down	Off/Down
Double Zero Key	0	Right Shift	—
Triple Zero Key	—	Kick Stand	—
2-Key Roll-Over	0	Tilt Display/Slant Display	0/—
Decimal Setting	F-5-4-3-2-1-0-A	Power Source	Solar/LR44 x 1
Round Up/Off/Down	Off/Down	Dimensions (W x D x H)	135 x 200 x 17 mm 5-5/16" x 7-7/8" x 21/32"
Right Shift	0	Weight (Approx.)	220 g
Kick Stand	—		
Tilt Display/Slant Display	0/—		
Power Source	Solar/LR44 x 1		
Dimensions (W x D x H)	140 x 195 x 22.5 mm 5-19/32" x 7-21/32" x 29/32"		
Weight (Approx.)	215 g		

*1 Includes "Round Off" mode.

*2 Includes "Round Off/Down" modes.

Model	EL-337C	EL-421M	EL-334F
Display	12	14	10
3-Digit Punctuation	0	0	0
Memory	1 + GT	1	1 + GT
Resume Function	0	0	—
Line Counter	—	—	—
Answer Check	0 ^{*1}	—	—
Cost/Sell/Margin	—	—	—
+Tax/-Tax Calculation	0/0	0/0	0/0
Day/Date Calculation	—	—	—
Conversion Function	3-rate	—	—
Root	—	—	—
Percent	0	0	0
Sign Change	0	0	0
Mark Up	—	—	—
Grand Total	0 ^{*2}	—	0
Constant	0	0	0
Auto Power Off	0	0	0
Double Zero Key	0	0	0
2-Key Roll-Over	0	0	0
Decimal Setting	F-3-2-0-A	—	—
Round Up/Off/Down	Off/Down	—	—
Right Shift	—	0	0
Kick Stand	—	0	0
Tilt Display/Slant Display	0/—	—/—	—/—
Power Source	Solar/LR44 x 1	Solar/LR44 x 1	Solar/LR44 x 1
Dimensions (W x D x H)	108 x 175 x 22 mm 4-7/32" x 6-7/8" x 7/8"	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"
Weight (Approx.)	165 g	160 g	160 g

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

Specifications (Mini Nice Size)

Model	EL-332A	EL-310A	EL-M711G	EL-M700G
Display	10	8	10	8
3-Digit Punctuation	○	—	○	○
Memory	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	—	—	—	—
Tilt Display/Slant Display	-/○	-/○	-/○	-/○
Power Source	Solar/LR44 x 1	Solar/LR1130 x 1	Solar/LR44 x 1	Solar/LR44 x 1
Dimensions (W x D x H)	101 x 142 x 34 mm 3-31/32" x 5-19/32" x 1-11/32"	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"	87 x 116.5 x 28.5 mm 3-7/16" x 4-19/32" x 1-1/8"
Weight (Approx.)	115 g	76 g	130 g	85 g

Kids'
Calculators

Specifications

Specifications

Model	EL-S10(PK/BL)
Display	8
3-Digit Punctuation	○
Memory	1
Root	○
Percent	○
Sign Change	○
Constant	○
Decimal Setting	—
2-Key Roll-Over	—
Auto Power Off	○
Slant Display	—
Key Material	Plastic
Hard Cover	○
Power Source (Approx. Life)	LR1130 x 1 (1 yr.) ^{*1}
Dimensions (W x D x H)	70 x 107 x 10.5 mm ^{*2} 2-3/4" x 4-7/32" x 13/32"
Weight (Approx.)	54 g

^{*1} When used for 1 hour per day.
Actual battery life may vary depending on usage.

^{*2} When closed.

Specifications (Nice Size, Mini Nice Size, Hand-Held/Hard Cover)

Model	EL-145A	EL-144A	EL-143S
Display	14	14	14
3-Digit Punctuation	0	0	0
Memory	1	1	1
+Tax/-Tax Calculation	0/0	0/0	-/-
Root	-	-	0
Percent	0	0	0
Sign Change	0	-	-
Constant	0	0	0
Auto Power Off	0	0	0
Double Zero Key	0	0	0
2-Key Roll-Over	0	0	0
Right Shift	0	0	0
Tilt Display/Slant Display	0/-	0/-	-/-
Hard Cover	-	-	0
Power Source	Solar/LR44 x 1	Solar/LR44 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"	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"
Weight (Approx.)	160 g	125 g	66 g



Merchandising Information

Quantity/CTN may differ depending on sales region.

MODEL	INDIVIDUAL CARTON					INNER CARTON			MASTER CARTON					
	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	
Voice Recorders														
PA-VR10EPCE	Box	0.15	175	98	32	10	1.60	0.007385	40	7.3	397	357	254	0.036000
PA-VR5E	Box	0.15	175	98	32	10	1.60	0.007385	40	7.3	397	357	254	0.036000
Electronic Organizers														
ZQ-P20H	Clamshell	0.45	263	196	52	10	4.80	0.023755	40	20.9	556	448	427	0.106361
ZQ-P10	Blister Pack	0.15	237	170	26	10	1.70	0.0125257	80	15.6	542	516	418	0.116903
Scientific Calculators (GRAPHING, STANDARD, PROGRAMMABLE, FINANCIAL)														
EL-506WWH	Box + Strap	0.19	161	83	30	10	2.00	0.004958	80	16.8	363	335	382	0.046454
EL-520WWH	Box + Strap	0.19	161	83	30	10	2.00	0.004958	80	16.8	363	335	382	0.046454
EL-531WHWH	Box + Strap	0.19	161	83	32	10	2.10	0.005266	80	17.7	363	355	382	0.049227
EL-501WWH	Box + Strap	0.13	150	82	24	10	1.50	0.004224	80	12.0	526	350	234	0.043080
EL-5120	Box + Strap	0.30	186+20	118	35	10	3.20	0.00969	40	13.8	414	386	300	0.047942
Printing Calculators (DESKTOP, SEMI-DESKTOP, HAND-HELD)														
EL-2607P	Box	2.47	438	265	136	—	—	—	6	16.4	548	456	433	0.108201
EL-2901RH	Box	1.36	362	228	110	—	—	—	6	9.3	476	384	367	0.067082
EL-2901PIH	Box	1.3	342	239	85	—	—	—	5	7.5	463	367	274	0.046558
EL-1801C	Box + Strap	0.80	297+30	218	78	—	—	—	10	8.8	452	319	419	0.060415
EL-1611P	Box + Strap	0.37	265+35	125	55	—	—	—	10	4.4	298	285	286	0.024290
CS-Z635RH	Box	2.55	425	239	125	—	—	—	6	16.9	610	446	418	0.113721
Office Calculators (DESKTOP/SEMI-DESKTOP, NICE SIZE, MINI NICE SIZE)														
EL-2125C	Box + Strap	0.26	199+20	144	27	10	2.70	0.010018	40	11.7	446	300	366	0.048971
EL-338G	Box + Strap	0.25	203+20	135	21	10	2.70	0.007598	40	11.3	454	240	348	0.037918
EL-337C	Box + Strap	0.20	180+20	112	26	10	2.20	0.007097	40	9.6	406	291	302	0.035680
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-332A	Box + Strap	0.15	145+20	104	31	10	1.60	0.006492	40	7.2	340	338	286	0.032867
EL-310A	Box + Strap	0.10	116+20	90	23	10	1.10	0.003524	40	5.0	278	260	258	0.018648
EL-M711G	Window box + Strap	0.24	219	142	36	10	2.67	0.015128	40	11.9	498	400	364	0.072509
EL-M700G	Window box + Strap	0.17	183	128	32	10	1.81	0.010535	40	8.2	426	360	366	0.051529
Personal Calculators (WALLET/HAND-HELD, HARD COVER, CARD)														
EL-250S	Box + Strap	0.07	118+20	74	19	40	2.90	0.009955	160	12.4	422	326	354	0.048700
EL-233S	Blister Pack	0.05	180	122	14	40	2.60	0.012947	160	11.9	529	284	424	0.063700
EL-480SR	Box + Strap	0.11	128	78	18	40	4.60	-	160	19.4	394	335	354	0.046724
EL-W211G	Window box + Strap	0.12	183	106	16	40	4.92	0.018376	160	21.0	470	370	496	0.086254
EL-376S	Box + Strap	0.08	118+20	75	15	40	3.50	0.008087	160	14.9	342	330	354	0.039952
EL-243S	Box + Strap	0.07	108+20	67	15	40	2.20	0.006804	160	9.4	342	298	334	0.034040
Kid's Calculators (NICE SIZE, MINI NICE SIZE, HAND-HELD/HARD COVER)														
EL-S10	Blister Pack	0.08	191	122	22	10	0.95	0.005766	40	4.2	409	239	290	0.028348
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-144A	Box + Strap	0.13	151+20	102	19	10	1.40	0.004158	40	6.0	350	220	282	0.021714
EL-143A	Box + Strap	0.08	118+20	75	15	40	3.50	0.008087	160	14.9	342	330	354	0.039952

Accessories and options

■ 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 ^{*7}
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-2630P II EL-2615G EL-2607P

■ PAPER ROLL

Model	DPAPR1004CSZZ ^{*2}				EA-7100P ^{*3}
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-1611L EL-1611P

■ INK ROLLER

Model	EA-732R		EA-772R		EA-781R-BK/EA-781R-RD ^{*4}			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-1195L EL-1607P	EL-2607R EL-1607R

■ ACCESSORY LINK KIT

PC-Link Software & Cable

Model	CE-491FD (without cable) ^{*5}	CE-491W ^{*5, 7}					CE-690W (cable option) ^{*5}	CE-LK2 ^{*5}	CE-LK1P ^{*8}
Applicable model	EL-6890P ^{*6} EL-6790P ^{*6} ZQ-480P ^{*6} ZQ-190P ^{*6} ZQ-180P ^{*6}	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 ^{*9} /CE-61T ^{*10}		
Applicable model	ZQ-650 ZQ-650PC	ZQ-640PC ZQ-630	ZQ-630PC ZQ-570

Level Converter

Model	CE-133T/CE-135T ^{*11}		
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 ^{*7} (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 CE-2H16M: 16KB

*2 5 rolls/pack, 58 (W) x 80 (ø) mm

*3 58 (W) x 25 (ø) mm

*4 EA-781R-BK: Black, EA-781R-RD: Red

*5 English version only.

*6 Use either CE-491W or CE-491FD.

*7 May not be available in some regions as stocks are very limited.

*8 English and French version only.

*9 English version only. With PC Link & PIM software.

*10 Without software.

*11 CE-133T: for IBM-PC (RS232C), CE-135T: for MAC (RS422)

SHARP

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