

HP 12c Financial Calculator Quick Start Guide



Edition 1

HP Part Number: F2230-90201

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Hewlett-Packard Company
16399 West Bernardo Drive
San Diego, CA 92127-1899
USA

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1 Getting Started

Welcome to your HP 12c Financial Calculator

This booklet is intended to get you started quickly with the basic features of your 12c Financial Calculator. Use it for quick reference. For more detailed information about the 12c Financial Calculator, refer to the *HP 12c Financial Calculator User's Guide*. Pages of the user's guide are cited throughout this manual, and it is highly recommended you refer to the user's guide to thoroughly familiarize yourself with the many features of your calculator.

The Keys

Many keys on the HP 12c Financial Calculator perform more than one function. The primary function of a key is indicated by the characters printed in white on the upper face of the key. The alternate function(s) of a key are indicated by the characters printed in gold above the key and the characters printed in blue on the lower face of the key. See Figure 1.

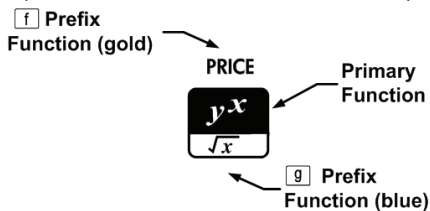


Figure 1

- To specify the primary function printed on the upperface of a key, press the key alone.
- To specify the alternate function printed in gold above a key, press the gold prefix key (**f**), then press the function key.
- To specify the alternate function printed in blue on the lower face of a key, press the blue prefix key (**g**), then press the function key.

Pressing the **f** or **g** prefix key turns on the corresponding status indicator — **f** or **g** — in the display. After a function key is pressed, the indicator turns off. Note how function keys for bonds, depreciation, and clearing are grouped together under brackets printed above the keys in gold. Unless otherwise indicated, press and release the desired key, or key combination in order from left to right. You do not need to press and hold the keys as with a computer or typewriter.

There are a total of six status indicators that appear along the bottom of the display and signify the status of the calculator for certain operations. When applicable, the descriptions below identify when an indicator appears on screen.

In this manual, the highlighted portion of the key symbol or symbols represents the active function of the key. Functions above the keys are spelled out and preceded by the **f** function key.

Customizing the Calculator

Table 1-1 lists some of the basic functions available for customizing the calculator. The pages of the *HP 12c Financial Calculator User's Guide*

are included for reference. Refer to these pages of the user's guide for more information.

Table 1-1 Basic Functions



| Functions | Display/Description |
|--------------------------------------|---|
| Turn calculator on/off (page 16). |  <p data-bbox="358 522 871 735">Turns calculator on. Pressing ON again turns the calculator off. The calculator turns off automatically 8 to 17 minutes after it was last used. The low battery symbol (*) appears when battery power is nearly exhausted. Refer to the section below titled, <i>Replacing the Batteries</i> for instructions on replacing the batteries.</p> |
| Number display format (page 71). |  <p data-bbox="358 892 871 1014">Press and release f followed by a number 0-9 to specify the number of digits displayed to the right of the decimal point. The default setting is two places to the right of the decimal point.</p> |

Table 1-1 Basic Functions





| Functions | Display/Description |
|-------------------------------|---|
| Digit separator (page 17). |  |
| | <ol style="list-style-type: none"> 1. The default separator is a comma (see above). 2. Turn the calculator off first by pressing ON. 3. Press and hold ON and then press and release ON to change the digit separator from a comma to a point. 4. Perform the same steps again to change the point to a comma. |
| Payment mode (page 37). |  |
| | <p>Press 9 7 BEG to set the payment mode for cash flow problems. Use Begin mode for payments occurring at the beginning of the compounding period. Note the “BEGIN” indicator appears.</p> <p>Press 9 8 END for payments occurring at the end of the compounding period. End mode is the default setting.</p> |

Table 1-1 Basic Functions

| Functions | Display/Description |
|--|---|
| Calendar format. Month-day-year (M.DY) or day-month-year (D.MY) (pages 29-31, 175, and 187). | <div data-bbox="440 315 808 392" style="border: 1px solid black; padding: 5px; text-align: center; font-family: monospace; font-size: 1.2em;">12.0320 10</div> <p data-bbox="357 405 870 495">Press 9 5_{M.DY} or 9 4_{D.MY} to set the date format. The default setting is M.DY. The screen above shows December 3, 2010 in M.DY format.</p> <ol data-bbox="357 502 844 727" style="list-style-type: none"> 1. Press 9 5_{M.DY}. 2. Key in one or two digits for the month. 3. Press ←₃. 4. Key in two digits for the day. 5. Key in four digits for the year. 6. Note: at this point, pressing ENTER_{LSTX} displays the date in the selected number display format. |
| | <div data-bbox="440 747 808 824" style="border: 1px solid black; padding: 5px; text-align: center; font-family: monospace; font-size: 1.2em;">3.12 D.MY</div> <ol data-bbox="357 856 844 1049" style="list-style-type: none"> 1. For day-month-year, press 9 4_{D.MY}. Note the "D.MY" indicator appears (see above). 2. Key in one or two digits for the day. 3. Press ←₃. 4. Key in two digits for the month. 5. Key in four digits for the year. Press ENTER_{LSTX}. |

Table 1-1 Basic Functions

| Functions | Display/Description |
|---------------------------------------|--|
| Compound interest (pages 39-53, 186). |  |
| | <p>Press STO EEX ADYS followed by dates separated by ENTER LEST to specify the compound interest option for odd-period calculations of interest (i), Present Value (PV), Payment (PMT), and Future Value (FV). Note the “C” indicator appears. The default setting performs calculations for PV, PMT, and FV using simple interest. Press STO EEX ADYS again to return to the default setting.</p> |
| Program mode (page 88). |  |
| | <p>Press f P/R to set the calculator to Program mode. When the calculator is in Program mode, functions are not executed when they are keyed in, but instead are stored inside the calculator. Note the “PRGM” indicator appears.</p> <p>Press f P/R again to exit Program mode. See page 88 of the <i>HP 12c Financial Calculator User’s Guide</i> for more information on programming basics.</p> |

Storage Registers and Continuous Memory

Numbers (data) are stored in memories called “registers.” Special registers are used for storing numbers during calculations, the “stack” registers, and the “Last X” register, which is used for storing the last number in the display before operations are performed in RPN mode. Numbers are stored automatically in these registers. There are also registers in which you can manually store data, designated R_0 through R_9 , R_{10} through R_{99} , and financial registers used for financial calculations. All these storage registers make up the calculator’s Continuous memory. All information in the Continuous memory is preserved even while the calculator is turned off. To reset the memory and clear all of the registers and return the calculator’s settings to their defaults, turn the calculator off, and while holding down **−**, press **ON**. With “Pr Error” displayed, press any key to return to the default calculator screen.


Reverse Polish Notation (RPN) Mode

The following information is a brief overview of how RPN works. For more detailed information about RPN and how the stack works, refer to the *HP 12c Financial Calculator User’s Guide*. In RPN mode, numbers are entered first, separated by pressing **ENTER** (**↵**), followed by an operation key. Pressing **ENTER** (**↵**) is optional after entering a number, if the next key pressed is an operation.

Each time you press an operation or function key in RPN, the answer is calculated immediately and displayed. For example, suppose you wanted to add two numbers in RPN, 1 and 2. Press **1** **↵** **2** **+**.

The result, 3.00, is calculated and displayed immediately.

There are four special registers used for storing numbers during calculations, which are stacked on top of one another. Called “the stack,” these registers are designated X, Y, Z, and T. X is on the bottom, and T is on the top. Unless the calculator is in Program mode, the number in the display is the number in the X-register. Primarily, the numbers in the X- and Y-registers are the numbers used in calculations. The Z and T registers are used for the automatic retention of intermediate results during chain calculations.

The  key separates numbers in the vertical stack and positions them in the X- and Y-registers, and, in addition to displaying intermediate results, this vertical arrangement of the stack allows you to copy and rearrange numbers without reentering them. For more complex problems requiring two or more operations, you do not need to enter parentheses to set operational priority. Key in numbers and operations inside the parentheses first, followed by those outside of the parentheses. If a problem has more than one set of parentheses, start by working with the operations and numbers in the innermost parentheses and work out.





For example, in RPN mode calculate $(3 + 4) \times (5 + 6)$. See

Table 1-2. Although this is a simple example, you can use the principles introduced here when working with more complex problems.

Table 1-2 RPN Example

| Keys | Display/Description |
|---|---|
| <small>3 n1</small> <small>ENTER LSTx</small> <small>4 D.MY</small> <small>+</small> | 7.00 |
| | <p>Enters numbers and operation from the first set of parentheses. The sum, 7, is displayed and stored in the X-register.</p> |
| <small>5 M.DY</small> <small>ENTER LSTx</small> <small>6 r.w</small> <small>+</small> | 11.00 |
| | <p>Enters the numbers and operation from the second set of parentheses. The sum, 11, is stored in the X-register and displayed, and 7 moves up to the Y-register.</p> |
| <small>×</small> | 77.00 |
| | <p>Finishes the operation and displays the results. Stores 77 in the X-register.</p> |

Keys used to rearrange the stack:

- Pressing the  key exchanges the numbers in the X-and Y-registers (**pages 74 and 172**).
- Pressing the  key performs a *roll down* of the stack, where each number in the registers is copied into the register below, and the number formerly in the X-register is copied into the T-register (**page 172**).
- Pressing   recalls the number displayed before the previous operation back into the displayed X-register. (**pages 74 and 176**).

Keys and Functions

Table 1-3 lists some of the keys used for basic operations, mathematical calculations, and financial problems. Use this table for quick reference. The pages of the *HP 12c Financial Calculator User's Guide* are included for reference. For a complete list of functions, including the keys used for statistics and programming, refer to the user's guide.

Table 1-3 Keys and Functions






| Key(s) | Description and Page Number in the User's Guide |
|---|---|
|  Enter | Enters a copy of number in displayed X-register into Y-register. Used to separate numbers in RPN (pages 19, 171). |
|   | Arithmetic operators (pages 19, 20-22). |
|   | |

Table 1-3 Keys and Functions








| Key(s) | Description and Page Number in the User's Guide |
|---|--|
|  CHS DATE | Changes sign of number or exponent displayed in the X-register (page 17). |
| Change sign | |
|  EEX ADYS | For very large or very small numbers. Enter the mantissa. After pressing,  EEX, the next numbers keyed in are exponents of 10 (page 18). |
| Enter exponent | |
|  CLX x=0 | Clears contents of display and X-register to zero. (page 18). |
| Clear | |
|  Σ | Clears statistics registers R ₁ -R ₆ and stack registers (page 76). |
| Clear statistics | |
|  FIN | Clears contents of financial registers. (page 33). |
| Clear financial | |
|  REG | Clears all storage registers, financial registers, stack (X,Y,Z, and T), and statistics registers. Leaves program memory untouched. Not programmable (page 24). |
| Clear all registers | |

Table 1-3 Keys and Functions





















| Key(s) | Description and Page Number in the User's Guide |
|--|---|
|  PREFIX | After  ,  ,  ,  , or  , cancels that key (page 17). |
| Cancel | |
|  Store | Press  and key in the register number (0-9 for registers R ₀ -R ₉ , or  0-9 for registers R _{•0} -R _{•9}) to store displayed number in a specified storage register. Also used to perform storage register arithmetic (pages 23-24). |
|  Recall | To recall a number from a storage register into the display, press  , then key in the register number. This copies the number from the storage register into the display (page 23). |
|  INTG | Key in base number. Press  . Key in the percentage. Press  . Calculates x% of y (page 26). |
| Percentage | |
|  FRAC | Key in the base numbers separated by  . Press  (page 27). |
| Percent difference | |
|  LN | Enter a total amount. Press  . Key in the number, x, whose percentage equivalent you wish to find. Press  . Calculates percent that x is of the number in Y-register (page 28). |
| Percent of total | |

Table 1-3 Keys and Functions

| Key(s) | Description and Page Number in the User's Guide |
|---|---|
| g $\frac{\text{CHS}}{\text{DATE}}$ | Key in start date and press $\frac{\text{ENTER}}{\text{LSTX}}$. Key in the number of days from entered date (if date is in the past, press $\frac{\text{CHS}}{\text{DATE}}$). Press g $\frac{\text{CHS}}{\text{DATE}}$. Displays date and the day of the week as a number 1-7 to the right of the display: 1 is for Monday; 7 is for Sunday (pages 29-30). |
| g $\frac{\text{EEX}}{\text{ADYS}}$ | Key in the earlier date and press $\frac{\text{ENTER}}{\text{LSTX}}$. Key in the later date and press g $\frac{\text{EEX}}{\text{ADYS}}$. Calculates the number of days between two dates in actual days. To display date based on a 30-day month, press $\frac{x \leq y}{x < y}$ after the steps listed above (page 31). |
| g $\frac{y^x}{\sqrt{x}}$ | Calculates the square root of the number displayed in the X-register (page 83). |
| Square root | |
| $\frac{y^x}{\sqrt{x}}$ | Raises the number in the Y-register to the power of the number in the X-register. Key in a number x. Press $\frac{\text{ENTER}}{\text{LSTX}}$. Key in the exponent, followed by $\frac{y^x}{\sqrt{x}}$. (page 85). |
| Power function | |
| g $\frac{1/x}{e^x}$ | Calculates the reciprocal of the number displayed in the X-register (page 83). |
| Reciprocal | |

Table 1-3 Keys and Functions
















| Key(s) | Description and Page Number in the User's Guide |
|---|---|
|   | Calculates factorial of number displayed in the X-register (page 83). |
| Factorial | |
|   | Natural antilogarithm. Raise e to power of the number displayed in the X-register (page 83). |
| e^x | |
|   | Calculates natural logarithm (base e) of the number in the displayed X-register (page 83). |
| LN | |
|  RND | Rounds mantissa of 10-digit number in X-register to match the display (page 83). |
| Round | |
|   | Leaves only the integer portion of the number displayed in the X-register by truncating fractional portion. It replaces each digit to the right of the decimal point by 0. The original number can be recalled by pressing   (page 83). |
| Integer function | |
|   | Leaves only the fractional portion of the number displayed in the X-register by truncating the integer portion. It replaces each digit to the left of the decimal point by 0. The original number can be recalled by pressing   (page 84). |
| Fractional function | |

Table 1-3 Keys and Functions








| Key(s) | Description and Page Number in the User's Guide |
|--|---|
|  f INT | Calculates simple interest (page 33). |
| Simple interest | |
|  | Stores or calculates number of compounding periods in financial problems (page 35). |
| Compounding periods | |
|  | Multiplies a number in displayed X-register by 12 and stores the value in the i-register (page 39). |
|  | Stores or computes interest rate per compounding period (pages 32, 36). |
| Interest rate per compounding period | |
|  | Divides number in displayed X-register by 12 and stores the resulting value in the i-register (page 39). |
|  | Stores or calculates the present (the initial cash flow) value of a financial problem (pages 32, 36). |
| Present value | |
|  | Stores or calculates the payment amount. (pages 32, 36). |
| Payment | |

Table 1-3 Keys and Functions

| Key(s) | Description and Page Number in the User's Guide |
|----------------------------|--|
| FV NI | Stores or calculates the future value (final cash flow) of a financial problem (pages 32, 36). |
| Future value | |
| f AMORT | Amortizes x number of periods using values stored in PMT _{CFI} , i _{12\rightarrow} , PV _{CF0} , and the display. Updates PV _{CF0} and n _{12\times} (page 54). |
| Amortization | |
| f NPV | Calculates the net present value of up to 20 uneven cash flows and initial investment using stored values with PV _{CF0} , PMT _{CFI} , and FV _{NI} (page 58). |
| Net Present Value | |
| f IRR | Calculates the internal rate of return (yield) for up to 20 uneven cash flows and initial investment using values stored in PV _{CF0} , PMT _{CFI} , and FV _{NI} (page 63). |
| Internal Rate of Return | |
| g PV CF0 | Initial cash flow. Stores contents of displayed X-register in R_0 , initializes n to zero, sets N_0 to 1. Used at the beginning of a discounted cash flow problem (page 57). |
| Cash flow | |
| g PMT CFI | Cash flow j . Stores the contents of X-register in R_1 , increments n by 1, and sets N_1 to 1. Used for all cash flows except the initial cash flow in a discounted cash flow problem (page 59). |
| Cash flow | |

Table 1-3 Keys and Functions







| Key(s) | Description and Page Number in the User's Guide |
|--|--|
| f SL Depreciation | Calculates depreciation using straight-line method (page 68). |
| f PRICE Bond price | Calculates bond price, given desired yield to maturity (page 67). |
| f YTM Bond yield | Calculates yield to maturity, given bond price (page 67). |
| g $\frac{FV}{N_i}$ Cash flow | Stores the number of times (from 1 to 99) each cash flow occurs as N_i . Assumes 1 unless otherwise specified (page 61). |
| f SOYD Depreciation | Calculates depreciation using the sum-of-the-years-digits method (page 68). |
| f DB Depreciation | Calculates depreciation using the declining-balance method (page 68). |

Basic Financial Calculation Example



Table 1-4 illustrates how easily you can perform financial calculations using the HP 12c Financial Calculator. For more examples and information on financial problems, including cash flows and using cash flow diagrams, refer to section three of the *HP 12c Financial Calculator User's Guide*, titled, *Basic Financial Functions*.

Calculate the monthly payment amount on a 30-year loan of 125,000.00 with a 6.9% annual interest rate, compounded monthly. Assume payments occur at the end of the compounding period.

Table 1-4 Loan Payment Example

| Keys | Display/Description |
|---|--|
|  FIN |  |
| | Clears financial registers. Press  if you want to return to the default screen (see above). |
|   END |  |
| | Sets payment mode to End. This step is optional unless the "Begin" indicator is lit, as End mode is the default setting. |

| Keys | Display/Description |
|---|--|
| <div style="display: flex; flex-wrap: wrap; gap: 5px;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">6 <small>\bar{x}.w</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">- <small>s</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">9 <small>MEM</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">g <small>12+</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">i <small>12+</small></div> </div> | 0.58 |
| | Enters the annual interest rate in terms of the basic compounding period (6.9% divided by 12 months per year). |
| <div style="display: flex; flex-wrap: wrap; gap: 5px;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">3 <small>n!</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">6 <small>\bar{x}.w</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">0 <small>\bar{x}</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">n <small>12x</small></div> </div> | 360.00 |
| | Enters the number of monthly compounding periods (n) for a 30-year loan (12 payments per year x 30). |
| <div style="display: flex; flex-wrap: wrap; gap: 5px;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">1 <small>\bar{x}.r</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">2 <small>\bar{y}.r</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">5 <small>M.DY</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">0 <small>\bar{x}</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">0 <small>\bar{x}</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">0 <small>\bar{x}</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">PV <small>CFO</small></div> </div> | 125,000.00 |
| | Enters the present value of the loan. |
| <div style="display: flex; flex-wrap: wrap; gap: 5px;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">0 <small>\bar{x}</small></div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">FV <small>NJ</small></div> </div> | 0.00 |
| | Enters the future value of the loan after it has been paid off (0.00). |

| Keys | Display/Description |
|--|---|
|  |  |
| Calculates monthly payment amount. Note the sign is negative; it is money you pay out. | |

Warranty and Contact Information

Replacing the Batteries

The calculator uses two, 3 Volt CR2032 Lithium batteries. The low battery symbol (*) appears when battery power is nearly exhausted. Use only fresh batteries when replacing the battery. Do not use rechargeable batteries. To install a new battery:

1. With the calculator turned off, slide the back cover off.
2. Remove only one battery at a time.
3. Remove one of the old batteries and replace it with a new battery with the positive polarity symbol facing outward.
4. Remove the other old battery and replace it with a new battery with the positive polarity symbol facing outward.
5. Replace the back cover.

Warning! There is danger of explosion if the battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Do not mutilate, puncture, or dispose of batteries in fire. The batteries can burst or explode, releasing hazardous chemicals.

HP Limited Hardware Warranty and Customer Care

This HP Limited Warranty gives you, the end-user customer, express limited warranty rights from HP, the manufacturer. Please refer to HP's Web site for an exten-

sive description of your limited warranty entitlements. In addition, you may also have other legal rights under applicable local law or special written agreement with HP.

Limited Hardware Warranty Period

Duration: 12 months total (may vary by region, please visit www.hp.com/support for latest information).

General Terms

HP warrants to you, the end-user customer, that HP hardware, accessories and supplies will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or like-new.

HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software media which does not execute its programming instructions due to such defects.

HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product with proof of purchase.

HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.

Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not sup-

plied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.

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The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. HP shall not be liable for technical or editorial errors or omissions contained herein.

FOR CONSUMER TRANSACTIONS IN AUSTRALIA AND NEW ZEALAND: THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Customer Care

In addition to the one year hardware warranty your HP calculator also comes with one year of technical support. If you need assistance, HP customer care can be reached by either email or telephone. Before calling please locate the call center nearest you from the list below. Have your proof of purchase and calculator serial number ready when you call.

Telephone numbers are subject to change, and local and national telephone rates may apply. For more support information, please visit the web at: www.hp.com/support.

Table 1-5 Customer Care

| Country | Hotline Phone | Country | Hotline Phone |
|----------|--|------------------------|--|
| Algeria | www.hp.com/support | Anguila | 1-800-711-2884 |
| Antigua | 1-800-711-2884 | Argentina | 0-800-555-5000 |
| Aruba | 800-8000 ; 800-711-2884 | Australia | 1300-551-664 or 03-9841-5211 |
| Austria | 01 360 277 1203 | Bahamas | 1-800-711-2884 |
| Barbados | 1-800-711-2884 | Belgium | 02 620 00 86 |
| Belgium | 02 620 00 85 | Bermuda | 1-800-711-2884 |
| Bolivia | 800-100-193 | Botswana | www.hp.com/support |
| Brazil | 0-800-709-7751 | British Virgin Islands | 1-800-711-2884 |
| Bulgaria | www.hp.com/support | Canada | 800-HP-INVENT |

| Country | Hotline Phone | Country | Hotline Phone |
|--------------------|------------------------------------|-----------------|--|
| Cayman Island | 1-800-711-2884 | Chile | 800-360-999 |
| China | 010-58301327 | Columbia | 01-8000-51-4746-8368 (01-8000-51-HP INVENT) |
| Costa Rica | 0-800-011-0524 | Croatia | www.hp.com/support |
| Curacao | 001-800-872-2881 + 800-711-2884 | Czech Republic | 296 335 612 |
| Denmark | 82 33 28 44 | Dominica | 1-800-711-2884 |
| Dominican Republic | 1-800-711-2884 | Ecuador | 1-999-119 ; 800-711-2884 (Andinatel) 1-800-225-528; 800-711-2884 (Pacifitel) |
| Egypt | www.hp.com/support | El Salvador | 800-6160 |
| Estonia | www.hp.com/support | Finland | 09 8171 0281 |
| France | 01 4993 9006 | French Antilles | 0-800-990-011; 800-711-2884 |
| French Guiana | 0-800-990-011; 800-711-2884 | Germany | 069 9530 7103 |

| Country | Hotline Phone | Country | Hotline Phone |
|----------------|------------------------|----------------|---|
| Ghana | www.hp.com/ support | Greece | 210 969 6421 |
| Grenada | 1-800-711-2884 | Guadelupe | 0-800-990-011; 800-711-2884 |
| Guatemala | 1-800-999-5105 | Guyana | 159 ; 800-711- 2884 |
| Haiti | 183 ; 800-711- 2884 | Honduras | 800-0-123 ; 800- 711-2884 |
| Hong Kong | 852 2833-1111 | Hungary | www.hp.com/ support |
| Indonesia | +65 6100 6682 | Ireland | 01 605 0356 |
| Italy | 02 754 19 782 | Jamaica | 1-800-711-2884 |
| Japan | 81-3-6666-9925 | Kazakhstan | www.hp.com/ support |
| Latvia | www.hp.com/ support | Lebanon | www.hp.com/ support |
| Lithuania | www.hp.com/ support | Luxembourg | 2730 2146 |
| Malaysia | +65 6100 6682 | Martinica | 0-800-990-011; 877-219-8671 |
| Mauritius | www.hp.com/ support | Mexico | 01-800-474- 68368 (800 HP INVENT) |

| Country | Hotline Phone | Country | Hotline Phone |
|------------------------|------------------------------------|----------------|------------------------------|
| Montenegro | www.hp.com/ support | Montserrat | 1-800-711-2884 |
| Morocco | www.hp.com/ support | Namibia | www.hp.com/ support |
| Netherland Antilles | 001-800-872-2881 ; 800-711-2884 | Netherlands | 020 654 5301 |
| New Zealand | 0800-551-664 | Nicaragua | 1-800-0164; 800- 711-2884 |
| Norway | 23500027 | Panama | 001-800-711-2884 |
| Paraguay | (009) 800-541- 0006 | Peru | 0-800-10111 |
| Philippines | +65 6100 6682 | Poland | www.hp.com/ support |
| Portugal | 021 318 0093 | Puerto Rico | 1-877 232 0589 |
| Romania | www.hp.com/ support | Russia | 495 228 3050 |
| Saudi Arabia | www.hp.com/ support | Serbia | www.hp.com/ support |
| Singapore | +65 6100 6682 | Slovakia | www.hp.com/ support |
| South Africa | 0800980410 | South Korea | 2-561-2700 |
| Spain | 913753382 | St Vincent | 01-800-711-2884 |

| Country | Hotline Phone | Country | Hotline Phone |
|------------------|------------------------|-------------------|---|
| St Kitts & Nevis | 1-800-711-2884 | St Lucia | 1-800-478-4602 |
| St Marteen | 1-800-711-2884 | Suriname | 156 ; 800-711-2884 |
| Swaziland | www.hp.com/ support | Sweden | 08 5199 2065 |
| Switzerland | 022 827 8780 | Switzerland | 01 439 5358 |
| Switzerland | 022 567 5308 | Taiwan | +852 2805-2563 |
| Thailand | +65 6100 6682 | Trinidad & Tobago | 1-800-711-2884 |
| Tunisia | www.hp.com/ support | Turks & Caicos | 01-800-711-2884 |
| UAE | www.hp.com/ support | United Kingdom | 0207 458 0161 |
| Uruguay | 0004-054-177 | US Virgin Islands | 1-800-711-2884 |
| USA | 800-HP INVENT | Venezuela | 0-800-474-68368 (0-800 HP INVENT) |
| Vietnam | +65 6100 6682 | Zambia | www.hp.com/ support |

Product Regulatory & Environment Information

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett-Packard Company may void the user's authority to operate the equipment.

Declaration of Conformity for products Marked with FCC Logo, United States Only

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If you have questions about the product that are not related to this declaration, write to:

Hewlett-Packard Company
P.O. Box 692000, Mail Stop 530113
Houston, TX 77269-2000

For questions regarding this FCC declaration, write to

Hewlett-Packard Company
P.O. Box 692000, Mail Stop 510101
Houston, TX 77269-2000
or call HP at 281-514-3333

To identify your product, refer to the part, series, or model number located on the product.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Regulatory Notice

This product complies with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC
- Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family.

This compliance is indicated by the following conformity marking placed on the product:



This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth).

This marking is valid for EU non-harmonized Telecom products. *Notified body number (used only if applicable-refer to the product label).

Hewlett-Packard GmbH, HQ-TRE, Herrenberger Srasse 140, 71034 Boeblingen, Germany

Japanese Notice

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

Korean Notice

| | |
|-----------------------|--|
| B급 기기 (가정용 방송통신기기) | 이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다. |
|-----------------------|--|

Disposal of Waste Equipment by Users in Private Household in the European Union



This symbol on the product or on its packaging indicates that this product just not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Chemical Substances

HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (*Regulation EC No 1907/2006 of the European Parliament and the Council*). A chemical information report for this product can be found at:

<http://www.hp.com/go/reach>

Perchlorate Material - special handling may apply

This calculator's Memory Backup battery may contain perchlorate and may require special handling when recycled or disposed in California.

产品中有毒有害物质或元素的名称及含量
根据中国《电子信息产品污染控制管理办法》

| 部件名称 | 有毒有害物质或元素 | | | | | |
|---------|-----------|--------|--------|--------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| PCA | X | O | O | O | O | O |
| 外觀罩 /字跡 | O | O | O | O | O | O |

O : 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006标准规定的限量要求以下。

X : 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006标准规定的限量要求。

表中标有“X”的所有部件都符合欧盟RoHS法规

欧洲议会和欧盟理事会2003年1月27日关于电子电器设备中限制使用某些有害物质的2002/95/EC号指令

注：环保使用期限的参考标识取决于产品正常工作的温度和湿度等条件