## ENGLISH <br> $+-x \div$

SHARP
SCIENTIFIC CALCULATOR

## MODEL EL－510RT

OPERATION MANUAL
PRINTED IN CHINA

## INTRODUCTION

About the calculation examples（including some formulas and
tables），refer to the reverse side tables），refer to the reverse side of the manual．Refer to the number on the right of each title on the manual for use．After reading this
manual，store it in a convenient location for future reference Operational Notes
Operational Notes
1．Do not carry the calculator in the back pocket of slacks or trousers．
1．Do not carry the calculator in the back pocket of slacks of
2．Do not subject the calculator to extreme temperatures．
3．Do not drop it or apply excessive force．
4．Clean only with a soft，dry cloth．Avoid using a rough cloth or
anything else that may cause scratches．
Do not use or store the calculator where
5．Do not use or store the calculator where fluids can splash onto it， 6．This product，including accessories，may change due to upgrading without prior notice
－Press the RESET switch（on the back），with the tip of a ball－point pen or similar object，only in the following cases．Do not use an
object with a breakable or sharp tip．Note that pressing the RESET switch erases all data stored in memory．
－When using for the first time
－After replacing the battery
－When an abnormal condition occurs and all keys are inoperative If service should be required on this calculator，use only a SHARP servicing dealer，SHARP approved service facility，or SHARP repair service where available．
SHARP will not be liable nor responsible for any incidental or consequential economic or property damage caused by misuse and／or malfunctions of this product and its peripherals，unless such

## DISPLAY

## 81234676990－max <br> Mantissa Exponent

（During actual use not all symbols are displayed at the same time．）
$\leftarrow \quad$ ：Appears when the entire equation cannot be displayed
2 ndF ．Apears when to see the remaining（hidden）section．
A ：Indicates that（2ndF）ALIPHA）or STO）（ RCL）has been pressed，and entry（recall）of memory contents and recall of statistics can be performed．
HYP ：Indicates that hyp has been pressed and the hyperbolic functions are enabled．If（2ndF）hyp are pressed，the symbols＂2ndF HYP＂appear，indicating that inverse hyperbolic functions are enabled
FIX／SCI／ENG：Indicates the notation used to display a value and DEG／RAD／GRAD：Indicates angular units and changes．
STAT ：Appears when statistics mode is selected
M Indicates that a numerical value is stored in the independent memory $\boldsymbol{K} / \boldsymbol{\prime} \boldsymbol{H} / \mathbf{H}$ ：Appears when the results of coordinate conversions are displayed．

## BEFORE USING THE CALCULATOR

## Key Notation Used in this Manual

In this manual，key operations are described as follows：
$\begin{array}{lll}x^{2} & \text { To specify } x^{2}: ~ 2 n d F & x^{2} \\ \text { Emp } & \text { To specify Exp：}\end{array}$
Functions that are printed in orange above the key require 2ndF to be pressed first before the key．Numbers are not shown as keys，but as ordinary numbers．
Power On and Off
Press ow／d to turn the calculator on，and 2 ndFF to turn it off．

## Editing the Equation

－Press $\square$ or $\square$ to move the cursor．You can also return to the equation after getting an answer by pressing $\square(\square)$
－If you need to delete a number，move the cursor to the number you
wish to delete then press DEL．If the cursor is located at the right end of an equation，the DEL key will function as a back space key If you need to insert a number，move the cursor to the place immediately after where you wish to insert the number then enter the number．

Clearing Methods
There are three clearing methods as follows：
Clearing
operation

| Clearing <br> operation | Entry <br> （Display） | $\mathrm{M}^{* 1}$ | $\mathrm{X}, \mathrm{Y}, \mathrm{r}, \theta^{* 2}$ <br> STAT，ANS |
| :--- | :---: | :---: | :---: |
| ON／C | 0 | $\times$ | $\times$ |
| 2ndF CA | 0 | $\times$ | 0 |
| RESET | 0 | 0 | 0 |
| O | 0 | 0 | 0 |

O：Clear $\times$ ：Retain
${ }^{\star 1}$ Independent memory M
＊emporary memories（ $\mathrm{X}, \mathrm{Y}, \mathrm{r}, \theta$ ），statistical data，and last answer
Priority Levels in Calculation
This calculator performs operations according to the following priority： （1）Fractions（1ז4，etc．）（2）Functions preceded by their argument（ $x^{-1}$ ， $x^{2}$ ，n！，etc．）（3）$Y^{x},{ }^{x} V$（4）Implied multiplication of a memory value （2Y，etc．）（5）Functions followed by their argument（sin，cos，etc．） （6）Implied multiplication of a function（2sin30，etc．）
（7） $\mathrm{nCr}, \mathrm{nPr}, \mathrm{GCD}, \mathrm{LCM}$（8）$\times, \div$（9）+ ，
（10）$=, \mathrm{M}+\mathrm{M}-, \Rightarrow \mathrm{M}, ~ D E G, \rightarrow R A D, ~ G R A D$, DATA， $\mathrm{CD}, \rightarrow \mathrm{r} \theta, \rightarrow \mathrm{xy}$ and other calculation ending instruction
－If parentheses are used，parenthesized calculations have precedence over any other calculations．

## INITIAL SETUP

## Mode Selection

## Normal mode： 2ndF 1 OODE 0

Used to perform arithmetic operations and function calculations
Statistics mode：2ndF MODE $\square$
Used to perform statistical calculations．
When executing mode selection，temporary memories，statistical data and last answer memory will be cleared even when reselecting the same mode． Selecting the Display Notation and Decimal Places
The calculator has four display notation systems for displaying calculation results．When $\mathrm{FIX}, \mathrm{SCI}$ ，or ENG symbol is displayed，the number of decimal places can be set to any value between 0 and 9 ．
Displayed values will be reduced to the corresponding number of digits． $100000 \div 3=$
［Floating point］ ONTC 100000 $\div 3 \square 33$＇333．33333 $\rightarrow$［Fixed decima

| 2ndF／FSE |
| :--- |
| 2ndF TAB |
| TAB |

33＇333．33333
TAB set to 2］
TAB 2
33＇333．33
［SClentific notation］
$3.33 \times 10^{4}$
$\rightarrow$［Floating point］
the value for floating point system does not fit in the following range， the calculator will display the result using scientific notation system： $0.000000001 \leq|x| \leq 9999999999$
Determination of the Angular Unit
In this calculator，the following
three angular units can be specified．

## SCIENTIFIC CALCULATIONS

## －Press 2ndF $\mathbb{M O D E} \square 0$ to select the normal mode

－In each example，press oN／C to clear the display．
－If the FIX，SCI，or ENG indicator is displayed，clear the indicator by pressing（2ndF（FSE）
Arithmetic Operations／Constant Calculations
－The closing parenthesis $1 D$ just before $=0$ or ${ }^{M+}$ may be omitted －The addend becomes a constant．Subtraction and divivision are －When performing calculations using constants，constants will be displayed as K．

## Functions

$\qquad$

## Random Numbers

A pseudo－random number with three significant digits can be generated by pressing（2ndF）emmom $=$ ．To generate the next random number，press $=\square$ ．You can perform this function in the normal and statistics modes． Random numbers use memory $Y$ ．Each random number is generated on the Angular Unit Conversions
Each time थndF ©RG are pressed，the angular unit changes in sequence．

## Memory Calculations

This calculator has fons（ $M$ ）, ，$, r, 0$ ，
dependent memory（ M ）and one last answer memory（ANS）
normal mode．

Temporary memories（ $\mathrm{X}, \mathrm{Y}, \mathrm{r}, \theta$ ）］
Press STO）and a variable key to store a value in memory．
Press（RCL and a variable key to recall the value from that
Press RCL and a variable key to recall the value from that memory， Use of（RCL）or（2ndF）（ALPHA）will recall the value stored in memory using up o 14 digits．
［Independent memory（M）］
ndded to to all the features of temporary memories，a value can be added to or subtracted from an existing memory value． ［Last answer memory（ANS）］
The calculation result obtained by pressing $\square$ or any other calculation ending instruction is automatically stored in the last answer memory．

Chain Calculations
This calculator allows the previous calculation result to be used in the
following calculation．The previous calculation result will not be recalled following calculation．The previous calculation result will not be recalled
after entering multiple instructions．
raction Calculations
$\begin{array}{r}\text { 【6】 } \\ \hline\end{array}$
his calculator performs arithmetic operations and memory calculations raction．
If the number of digits to be displayed is greater than 10 ，the number is converted to and displayed as a decimal number．
Time，Decimal and Sexagesimal Calculations
［7］ addation，hhe four basic arithmetic operations and memory calculations can carried out using the sexagesimal system．
Coordinate Conversions
－Before performing a calculation，select the angular unit．

－The calculation result is automatically stored in memories（ $\mathrm{X}, \mathrm{Y}, \mathrm{r}, \theta$ ）．
Calculating the Greatest Common Divisor（GCD）
What is the GCD of 24 and 36 ？ONC） 24 （2ndF（GCD） $36 \square 12$ ．

## Calculating the Least Common Multiple（LCM）

What is the LCM of 15 and 9 ？ONCC 15 ［ ndF（LCM） $9 \rightleftharpoons$

## STATISTICAL CALCULATIONS

Press 2ndF MODE 1 to select statistics mode
he following statistics can be obtained：


Entered data are kept in memory until 2 ndF $C A$ or 2 ndF $M O D E \square$
are pressed．Before entering new data，clear the memory contents．
［Data Entry］
Data（Fac）frequency（DATA）（To enter multiples of the same data）
［Data Correction］
（DATA）：
Dete incorrect data with ©ov／
Press $\square$ to confirm the latest entry and press 2 ndF $\triangle D$ to delete it．
Statistical Calculation Formulas
【10】
In the statistical calculation formulas，an error will occur when：
－the absolute value of the intermediate result or calculation result is
equal to or greater than $1 \times 10$
the denominator is zero
the square root of a negative number．

## ERROR AND CALCULATION RANGES

Errors
An error will occur if an operation exceeds the calculation ranges，or if a mathematically illegal operation is attempted．
When an error occurs，pressing（or $\rightarrow$ ）automatically moves
Edit the equation or press on／C to clear the equation
Error Codes and Error Types

## Syntax error（Error 1）

attempt was made to perform an invalid operation．
Ex． 2 （2ndF）$\rightarrow r$ ©

## Calculation error（Error 2）：

The absolute value of an intermediate or final calculation result
An attempt was made to divide by 0
An attempt was made to divide by 0 ．
The calculation ranges were exceeded while performing calculations．

## Depth error（Error 3）

The available number of buffers was exceeded．（There are 10 buffers＊ or numeric values and 24 buffers for calculation instructions）． uatio
Equation too long（Error 4）：
The equation exceeded its maximum input buffer（159 characters）． The equation exceeded its maximum input buffer（159
An equation must be shorter than 159 characters．

## Calculation Ranges

［11］
in the
Calculation Ranges
Within the ranges specified below，this calculator is accurate to $\pm 1$ in the
Went least significant digit of the mantissa．When performing gontinuous calculations
（indudung （This is the same for $y^{x} x \sqrt{x} e^{x}$ ，$n$ etc where continuous calculations are （This is the same forly．
Calculation ranges
It the absolute value of an $\pm 9.9{ }^{-99} 9$ ．
fthe absolute value of an entry or a final or intermediate result of a calculation sless than $10^{-99}$ the value is considered to be 0 in calculations and in the display．

## BATTERY REPLACEMENT

## Notes on Battery Replacement

mproper handling of batteries can cause electrolyte leakage or explosion． Be sure to observe the following handling rules：
－Make sure the new battery is the correct type．
When installing，orient the battery properly as indicated in the calculator The battery is factory－installed before shipment，and may be exhausted before it reaches the service life stated in the specifications．
When to Replace the Battery
If the display has poor contrast or nothing appears on the display even when（ON／O）is pressed in dim lighting，it is time to replace the battery． An exha
－An exhausted battery left in the calculator may leak and damage the calculator． Fluid from a leaking battery accidentally entering an eye could result
in serious injury．Should this occur，wash with clean water and in serious injury．Should this octar immediately consult a doctor．
Should fluid from a leaking battery come in contact with your skin
or clothes，immediately wash with clean water －Ir clothes，immediately wash with clean water．
If the product is not to be used for some time to avoid da －If the product is not to be used for some time，to avoid damage to
the unit from a leaking battery，remove it and store in a safe place －Do not leave an exhausted battery inside the product．
－Keep batteries out of the reach of children．
－Explosion risk may be caused by incorrect handling
－Do not throw batteries into a fire as they may explode．

## Replacement Procedure

1．Turn the power off by pressing 【ndF OFF． 2．Remove one screw．（Fig．1）
3．Lift the battery cover to remove
3．Lift the battery cover to remove．
4．Remove the used battery by prying it out with
a ball－point pen or other similar pointed
device．（Fig．2）
．Install one new battery．Make sure the＂+ ＂ side is facing up．
6．Replace the cover and screw．
7．Press the RESET switch（on the back）．
Make sure that the display appears as shown below．If the display does not appear as shown，remove the battery，reinstall it，and check the display once again．

Automatic Power Off Function
This calculator will turn itself off to save battery power if no key is pressed or approximately 10 minutes．

## SPECIFICATIONS

Calculations：
Internal calculations：
Pending operations：
Power source：
Scientific calculations，statistic 24 calculations 10 numeric values （5 numeric values in STAT mode） Built－in solar cells
$1.5 \mathrm{~V}=$（DC）
Alkaline battery（LR1130）$\times 1$ ）
Operating time：
（varies according to
use and other factors
Operating temperature：
External dimensions
Approx． 3000 hours when continuously
displaying 55555 at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ ，using the alkaline battery only
$0^{\circ} \mathrm{C}-40^{\circ} \mathrm{C}\left(32^{\circ} \mathrm{F}-104^{\circ} \mathrm{F}\right)$
$76 \mathrm{~mm}(\mathrm{~W}) \times 135 \mathrm{~mm}(\mathrm{D}) \times 10 \mathrm{~mm}(\mathrm{H})$
$3^{\prime \prime}(\mathrm{W}) \times 5-5 / 16^{\prime \prime}(\mathrm{D}) \times 13 / 32^{\prime \prime}(\mathrm{H})$
Approx． $66 \mathrm{~g}(0.15 \mathrm{lb})$（including battery）
Battery $\times 1$（installed），operation manual
and hard case
HARD CASE


ENGLISH $+-x \div$

## EL－510RT

CALCULATION EXAMPLES EXEMPLES DE CALCUL ANWENDUNGSBEISPIELE

## 【1】



|  | $\theta=\sin ^{-1} x, \theta=\tan ^{-1} x$ | $\theta=\cos ^{-1} x$ |
| :--- | :--- | :--- |
| DEG | $-90 \leq \theta \leq 90$ | $0 \leq \theta \leq 180$ |
| RAD | $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$ | $0 \leq \theta \leq \pi$ |
| GRAD | $-100 \leq \theta \leq 100$ | $0 \leq \theta \leq 200$ |


| $90^{\circ} \rightarrow$［rad］ | ON／C 90 2ndF DRG | 1.570796327 |
| :---: | :---: | :---: |
| $\rightarrow$［g］ | 2ndF DRG | 100. |
| $\rightarrow\left[{ }^{\circ}\right]$ | 2ndF DRG | 90. |
| $\sin ^{-1} 0.8=\left[{ }^{\circ}\right]$ | （2ndF） $\mathrm{sin}^{-1} 0.8 \square$ | 53.13010235 |
| $\rightarrow$［rad］ | 2ndF DRG | 0.927295218 |
| $\rightarrow$［g］ | 2ndF（RRG | 59.03344706 |
| $\rightarrow\left[{ }^{\circ}\right]$ | 2ndF）DRG | 53.13010235 |
| ［4］ |  |  |
|  | ON／C $8 \times 2 \times$ STO M | 16. |
| $24 \div(8 \times 2)=$ | $24 \div \mathrm{RCL} M \mathrm{M}=$ | 1.5 |
| $(8 \times 2) \times 5=$ | RCL $M \times 5 \times$ | 80. |
|  | ON／C STO M | 0. |
| \＄150×3：M1 | $150 \times 3 \times$ | 450. |
| ＋）\＄250：M2＝M1＋250 | $250{ }^{\text {M＋}}$ | 250. |
| －）M $2 \times 5 \%$ ：Discount | RCL $M$ M 5 2ndF | \％ 35. |
| Total $=$ M | 2ndF M－RCL M | 665. |
| \＄1 $=$ ¥110 | 110 STO $Y$ | 110. |
| ¥26，510＝\＄？ | $26510 \div$ RCL $Y C$ | 241. |
| \＄2，750＝\＃？ | $2750 \times$ RCL $Y=$ | 302＇500． |
| $\mathrm{r}=3 \mathrm{~cm}$ | 3 sTO $r$ | 3. |
| $\pi \mathrm{r}^{2}=$ ？ | $\pi$ 2ndF ALPHA |  |
|  | $\underline{r}$ 2ndF $x^{2}=$ | 28.27433388 |
| $\frac{24}{4+6}=2.4 \ldots(\mathrm{~A})$ | $24 \leftrightarrows 4 \square$ | $\square 2.4$ |
| $3 \times(\mathrm{A})+60 \div(\mathrm{A})=$ | $3 \triangle x \text { ANS }+60 \div$ | $\square$ |
| 【5］ |  |  |
| 6＋4＝ANS | ON／C $6+4 \square$ | 10. |
| ANS＋5 | $\pm 5 ¢$ | 15. |
| 44＋37＝ANS | $44+37 \square$ | 81. |
| $\sqrt{\text { ANS }}=$ | 2ndF）$\sqrt{ }=$ | 9. |
| ［6］ |  |  |
| $3 \frac{1}{2}+\frac{4}{3}=\left[a \frac{b}{c}\right]$ | ON／C）$3 \longdiv { \mathrm { ab } / \mathrm { c } } 1 \times \mathrm { ab/c } 2 +$ |  |
| $\rightarrow$［a．xxx］ | ab／c | 4.833333333 |
| $\rightarrow[\mathrm{d} / \mathrm{c}]$ | 2ndF d／c | 29 「6 |
| $10^{\frac{2}{3}}=$ | 2ndF $10^{x} 2 \times 4.641588834$ |  |
| $\left(\frac{2}{3}\right)^{-1}=$ |  | 1「1「2 |
| $\sqrt{\frac{4}{9}}=$ | 2ndF）$\sqrt{ } 4 \square$ | $2 \Gamma 3$ |
| $\frac{2+3}{7}=$ | $\square^{2}+3 \square 1 \square a^{a b / c} 7$ | 5「7 |
| $1.25+\frac{2}{5}=[\mathrm{a} . \mathrm{xxx}]$ | $\left.\begin{array}{l} 1.25 \leftrightarrows 2 \square a^{\mathrm{ab} / \mathrm{c}} 5 \square \\ \mathrm{ab} / \mathrm{c} \end{array}\right)$ | $\begin{array}{r} 1.65 \\ 1\ulcorner 13\ulcorner 20 \end{array}$ |
| $\rightarrow\left[a \frac{b}{c}\right]$ |  |  |
| 【7】 | ＊ $4 \Gamma 5 \Gamma 6=4 \frac{5}{6}$ |  |
| $\begin{aligned} & 12^{\circ} 39^{\prime} 18.05^{\prime \prime} \\ & \rightarrow[10] \end{aligned}$ |  |  |
|  | 2ndF $\leftrightarrow$ DEG 12.65501389 |  |
| $\underline{123.678 \rightarrow[60]}$ | 123.678 2ndF $\leftrightarrow$ DEG | $123^{\circ} 40^{\prime} 40.8^{\prime \prime}$ |
| $3 \mathrm{~h} 30 \mathrm{~m} 45 \mathrm{~s}+$ | 3 DPMS 30 （DW＇S 45 DW＇S +6 DPMS |  |
| $6 \mathrm{~h} 45 \mathrm{~m} 36 \mathrm{~s}=$［60］ | 45 （DPM＇S 36 （DWS $\quad \Rightarrow \quad 10^{\circ} 16^{\prime} 21 . "$ |  |
| 3 h 45 m － | 3 （DPW＇ 45 （DW＇S） $1.69 \square$ |  |
| $1.69 \mathrm{~h}=$［60］ | 2ndF $\oplus$ DEG ${ }^{\circ} 3^{\prime} 36.1$ |  |
| sin62 ${ }^{\circ} 12^{\prime} 24^{\prime \prime}=[10]$ |  |  |
|  |  |  |  |
| 【8】 |  |  |
| $\left(\begin{array} { l }  { x = 6 } \\ { y = 4 } \end{array} \rightarrow \left(\begin{array}{l} r= \\ \theta=\left[{ }^{\circ}\right] \end{array}\right.\right.$ | ON／C） 6 ［2ndF $\square 4$ |  |
|  |  | ${ }^{r} 7.211102551$${ }^{\text {a }} 33.69006753$ |
|  | 2ndF $\leftrightarrows \rightarrow$－${ }^{+}$ |  |
|  | 2ndF $\leftrightarrows \rightarrow$ | ${ }^{\text {r }} 7.211102551$ |
| $\left(\begin{array} { l }  { r = 1 4 } \\ { \theta = 3 6 [ ^ { \circ } ] } \end{array} \rightarrow \left(\begin{array}{l} x= \\ y= \end{array}\right.\right.$ | 14 2ndF $\square 36$ |  |
|  | 2ndF）$\rightarrow x y$ | ${ }^{x} 11.32623792$ |
|  |  | ${ }^{\mathrm{y}} 8.228993532$ |
|  | 2ndF $\rightarrow$ | ${ }^{\times} 11.32623792$ |



【10】

| $\bar{x}=\frac{\sum x}{n}$ | $\sigma x=\sqrt{\frac{\sum x^{2}-n \bar{x} \bar{x}^{2}}{n}}$ |
| :--- | :--- |
| $s x=\sqrt{\frac{\sum x^{2}-n \bar{x}^{2}}{n-1}}$ | $\Sigma x=x_{1}+x_{2}+\cdots+x_{n}$ |
|  | $\Sigma x^{2}=x_{1}{ }^{2}+x_{2}{ }^{2}+\cdots+x_{n}{ }^{2}$ |

【11】

| Function Fonction Funktion | Dynamic range Plage dynamique zulässiger Bereich |
| :---: | :---: |
| $\begin{aligned} & \sin x, \cos x, \\ & \tan x \end{aligned}$ | $\begin{array}{ll} \text { DEG: } & \|x\|<10^{10} \\ & (\tan x:\|x\| \neq 90(2 n-1))^{\star} \\ \text { RAD: } & \|x\|<\frac{\pi}{180} \times 10^{10} \\ & \left(\tan x:\|x\| \neq \frac{\pi}{2}(2 n-1)\right)^{\star} \\ \text { GRAD: } & \|x\|<\frac{10}{9} \times 10^{10} \\ & \\ & (\tan x:\|x\|=100(2 n-1))^{\star} \end{array}$ |
| $\sin ^{-1} x, \cos ^{-1} x$ | $\|x\| \leq 1$ |
| $\tan ^{-1} x, \sqrt[3]{x}$ | $\|x\|<10^{100}$ |
| $\ln x, \log x$ | $10^{-99} \leq x<10^{100}$ |
| $y^{x}$ |  |
| $\sqrt[x]{y}$ | $\begin{array}{ll} \text { - } y>0: & -10^{100}<\frac{1}{x} \log y<100(x \neq 0) \\ -y=0: & 0<x<10^{100} \\ -y<0: & x=2 n-1 \\ & \left(0<\|x\|<1: \frac{1}{x}=\mathrm{n}, x \neq 0\right)^{*} \\ & -10^{100}<\frac{1}{x} \log \|y\|<100 \end{array}$ |
| $\mathrm{e}^{x}$ | $-10^{100}<x \leq 230.2585092$ |
| $10^{x}$ | $-10^{100}<x<100$ |
| $\sinh x, \cosh x$, $\tanh x$ | $\|x\| \leq 230.2585092$ |
| $\sinh ^{-1} x$ | $\|x\|<10^{50}$ |
| $\cosh ^{-1} x$ | $1 \leq x<10^{50}$ |
| $\tanh ^{-1} x$ | $\|x\|<1$ |
| $x^{2}$ | $\|x\|<10^{50}$ |
| $x^{3}$ | $\|x\|<2.15443469 \times 10^{33}$ |
| $\sqrt{x}$ | $0 \leq x<10^{100}$ |
| $x^{-1}$ | $\|x\|<10^{100}(x \neq 0)$ |
| n ！ | $0 \leq \mathrm{n} \leq 69^{*}$ |
| $n \mathrm{Pr}$ | $\begin{aligned} & 0 \leq r \leq n \leq 9999999999^{*} \\ & \frac{n!}{(n-r)!}<10^{100} \end{aligned}$ |
| ${ }_{n} \mathrm{Cr}_{r}$ | $\begin{aligned} & 0 \leq r \leq n \leq 9999999999^{*} \\ & 0 \leq r \leq 69 \\ & \frac{n!}{(n-r)!}<10^{100} \end{aligned}$ |
| $\leftrightarrow$ DEG，D＇M＇S | $0^{\circ} 0^{\prime} 0.000011^{\prime} \leq\|x\|<10000^{\circ}$ |
| $x, y \rightarrow r, \theta$ | $\sqrt{x^{2}+y^{2}}<10^{100}$ |



For EU only：

Information on the Disposal of this Equipment and its Batteries

$$
\begin{aligned}
& \text { 7. NoT USE HE ORDNARY WATE BN! } \\
& \text { DO NOTPUT THEM INTO A FIREPLACE! }
\end{aligned}
$$

1. In the European UnionUsed batteries．IIf
method or disposa
2 ．

2．In other Countries outside the EU
If you wish to discard this product，please contact your local authorities and ask for the
correct method of disposal．
ENGUS


