

# LEVELNIC DL-S4W SERIES



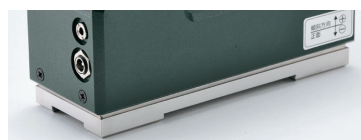
HOW TO MOVE

The latest model of Levelnic series. Built-in wireless.  
Measurement value can be checked both on PC screen and the device's display panel.

- High precision Digital Level
- Resolution 0.001mm/m
- Switchable between wired and wireless
- Stainless steel base type that not requires rust prevention maintenance (DL-S4W SUS)



DL-S4W



DL-S4W SUS

For vertical measurement ▶

L-type Base

**P127**

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For setting a fixed pitch ▶

Levelnic Base with Adjustable Pitch

**P137**

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For flatness and straightness calculation ▶

Levelnic Measurement Software

**P138**  
~139

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Rust prevention ▶

Zerust Film for Steel

**P380**

### USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement.

### MATERIAL

- Body: Aluminum

### FEATURES

- Wireless data transmission
- PC screen becomes display of Levelnic
- Measurement data can be displayed on PC, using receiver and data display software
- Switchable between wireless / wired for saving of electricity and long-time use
- USB receiving unit installed. The driver is supported by the automatic recognition system.
- Equipped with two rechargeable batteries, enables running measuring by using a spare battery while the other is being charged
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base

### SPECIFICATIONS

Measuring Range*1	± 5.00mm/m ± 0.286°
Minimum Reading	0.001mm/m 0.0001° (within ± 1.999mm/m) 0.01mm/m 0.001° (over ± 2mm/m)
Operating Temperature	0 ~ 40°C
Accuracy*2	Operating temperature 17 ~ 23°C ± 0.85% rdg (within ± 1.999mm/m) ± 1.0% rdg (over ± 2mm/m) Operating temperature 0 ~ 40°C ± 2.6% rdg (within ± 1.999mm/m) ± 2.7% rdg (over ± 2mm/m)
Repeatability	Within ± 0.005mm/m ± 0.0003°
Output Signal	Conforms to RS-232C, wired*4, built-in wireless system (Bluetooth Class1*5, wireless range: 30 ~ 50m)
Power Source	9V 006P type dry cell 1pc 8.4V 006P type rechargeable battery 1pc AC adapter (DC9V output · AC100V ~ 240V) included
Run time (continuous use)*3	Zinc-carbon cell: Approx. 12 hrs. (wireless use approx. 3 hrs.) Alkaline cell: Approx. 30 hrs. (wireless use approx. 10 hrs.) Rechargeable battery 10 hrs. (wireless use approx. 4 hrs.)
Dimensions	L158 × W61 × H107mm (Base dimensions: L150 × W55mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 8.4V 006P type rechargeable battery 2pcs ● Battery charger ● Dedicated display software ● USB receiving unit

\* 1: For DEG (°) Display mode, "0 (Zero)" before the decimal point is not displayed.  
For 0.001mm/m (0.0001°) display mode, maximum reading which can be displayed is less than ± 1.999mm/m (± 0.1145°).  
\* 2: % rdg indicates the percentage of displayed value  
\* 3: May vary depending upon measurement conditions  
\* 4: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)  
\* 5: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)

Order No.	Model No.	Software Language	Base Material	Weight
010053	DL-S4W	Japanese	Cast iron	2.0kg
010111	DL-S4W SUS		Stainless steel SUS303	2.0kg
010085	DL-S4W-E	English	Cast iron	2.0kg



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

# LEVELNIC DL-S3 SERIES



High accuracy Level with simple & clear operation.  
The world's first Digital Level with built-in Microcomputer.

- High precision Digital Level
- Resolution 0.001mm/m
- Rechargeable Battery (DL-S3C / DL-S3C SUS)
- Stainless steel base type that not requires rust prevention maintenance (DL-S3 SUS / DL-S3C SUS)



<b>For vertical measurement</b> L-type Base <b>P127</b>	<b>For wireless communication</b> Wireless Adapter <b>P131</b>
<b>For display measured value for two connections</b> Transmitter and display set <b>P132</b>	<b>For setting a fixed pitch</b> Levelnic Base with Adjustable Pitch <b>P137</b>
<b>For flatness and straightness calculation</b> Levelnic Measurement Software <b>P138 ~139</b>	<b>Rust prevention</b> Zerust Film for Steel <b>P380</b>

### USE

- High precision leveling of machine tools and surface plates. Straightness, flatness and vertical measurement.

### MATERIAL

- Body: Aluminum

### FEATURES

- Easy to fix the datum point, divide measurement value into halves with one-touch operation (with "0" cal. switch, 1/2 cal. switch)
- Measurement value can be output with RS232 signal
- Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base
- DL-S3C is rechargeable type. It can be charged when not in use.

### SPECIFICATIONS

Model No.	DL-S3/DL-S3 SUS	DL-S3C/DL-S3C SUS
Measuring Range*1	± 5.00mm/m · ± 0.286°	
Minimum Reading	0.001mm/m · 0.0001° (0 ~ ± 2mm/m · 0 ~ ± 0.115°) 0.01mm/m · 0.001°	
Operating Temperature	0 ~ 40°C	
Accuracy *2	Operating temperature 17 ~ 23°C ± 0.85%rdg (0 ~ ± 2mm/m · 0 ~ ± 0.115°) ± 1.0%rdg (± 2 ~ ± 5mm/m · ± 0.115° ~ ± 0.286°) Operating temperature 0 ~ 40°C ± 2.6%rdg (0 ~ ± 2mm/m · 0 ~ ± 0.115°) ± 2.7%rdg (± 2 ~ ± 5mm/m · ± 0.115° ~ ± 0.286°)	
Repeatability	Within ± 0.005mm/m · ± 0.0003°	
Output Signal	Conforms to RS-232C *4	
Charging time	—	12 hrs. (when fully charged)
Power Source	9V 006P type dry cell 1pc AC adapter (DC9V output · AC100V ~ 240V) included	Ni-MH battery (8.4V 200mAh)
Run time (continuous use) *3	Zinc-carbon cell: Approx. 10 hrs. Alkaline cell: Approx. 20 hrs.	12 hrs. charge: Approx. 9 hrs. 8 hrs. charge: Approx. 6 hrs. 4 hrs. charge: Approx. 2 hrs.
Dimensions	L172 × W65 × H129mm (base dimension: L150 × W55mm)	
Accessories	<ul style="list-style-type: none"> <li>● Shock resistant aluminum case</li> <li>● Warranty · Instruction manual · Inspection report</li> <li>● AC adapter (DC9V output · AC100V ~ 240V)</li> <li>● 9V dry cell</li> </ul>	<ul style="list-style-type: none"> <li>● Shock resistant aluminum case</li> <li>● Warranty · Instruction manual · Inspection report</li> <li>● AC adapter (DC15V output)</li> <li>● Ni-MH battery (8.4V 200mAh)</li> </ul>

\*1: For DEG (°) Display mode, "0 (Zero)" before the decimal point is not displayed.  
For 0.001mm/m (0.0001°) display mode, maximum reading which can be displayed is less than ± 1.999mm/m (± 0.1145°).  
\*2: % rdg indicates the percentage of displayed value  
\*3: May vary depending upon measurement conditions  
\*4: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Battery Type	Base Material	Weight
010013	DL-S3	9V dry cell	Cast iron	2.2kg
010030	DL-S3C	Ni-MH battery		2.2kg
010112	DL-S3 SUS	9V dry cell	Stainless steel SUS303	2.2kg
010113	DL-S3C SUS	Ni-MH battery		2.2kg

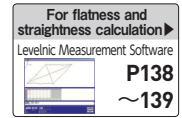
### With V groove base - available on request

Model	DL-S3V
Tolerance	Within 0.1mm/m (on condition that the bubble in the sub-bubble tube is within the base line)
Tolerance Between Flat and V Groove	Within 0.05mm/m
Angle of V Groove	130° (for cylindrical objects up to φ 65mm)

## LEVELNIC DL-S3L



HOW TO MOVE



LEVELNIC DL-S3 with magnetic L-type base.  
Magnetic base enables Z-axis measurement in addition to X-axis and Y-axis.



### USE

- High precision leveling of machine tools and surface plates.  
Straightness, flatness and vertical measurement.

### MATERIAL

- DL-S3 / Body: Aluminum
- L-type base: Cast iron

### FEATURES

- Quick digital display of the measured value
- Measurement value can be output with RS-232 signal
- L-type magnetic base enables vertical (Z-axis) measurement
- With 130° V groove

### POWER

- 9V dry cell 1pc
- AC adapter (DC9V output · AC100V~240V)

### ACCESSORIES

- Shock resistant aluminum case
- Warranty · Instruction manual · Inspection report
- AC adapter (DC9V output · AC100V~240V)
- 9V dry cell

Please refer to DL-S3(P126) for detailed specifications for this unit

Order No.	Model No.	Base Squareness (mm)	Weight
010027	DL-S3L	Within ± 0.04	5.5kg



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

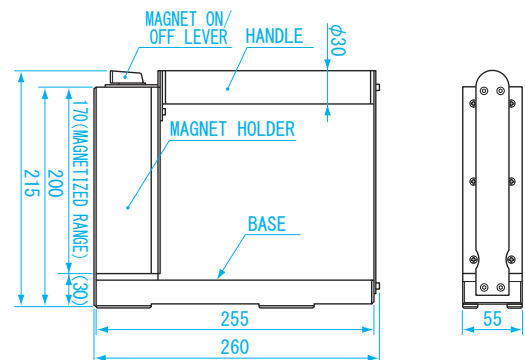
## L-TYPE BASE FOR LEVELNIC DL-SL

LEVELNIC DL-S4 series · DL-S3 series · DL-S2W series,  
equipped with L-type base enables measurement in the Z-axis in addition to X-axis and Y-axis



### ● DIMENSIONS

Units: mm



### USE

- L-type base for Levelnic

### MATERIAL

- Cast iron

### FEATURES

- Applicable Levelnic: DL-S4W series, DL-S3 series, DL-S2W series
- Vertical (Z-axis) measurement is available by applicable Levelnic mounted on
- L-type magnetic base enables vertical (Z axis) measurement
- With 130° V groove

### ACCESSORIES

- Shock resistant aluminum case

Order No.	Model No.	Base Squareness (mm)	Weight
010028	DL-SL	Within ± 0.04	4.9kg

# LEVELNIC DL-S2W SERIES



HOW TO MOVE

Wireless Data transmission. Same specification as DL-S3, and wireless system equipped. The maximum longitudinal coverage is 50 ~ 100m.

- High precision Digital Level (Wireless by Bluetooth)
- Resolution 0.001mm/m
- Stainless steel base type that not requires rust prevention maintenance (DL-S2W SUS / DL-S2W (USB) SUS)



For vertical measurement ▶  
L-type Base  
 P127

For setting a fixed pitch ▶  
Levelnic Base with Adjustable Pitch  
 P137

For flatness and straightness calculation ▶  
Levelnic Measurement Software  
 P138 ~139

Rust prevention ▶  
Zerust Film for Steel  
 P380

USE

- High precision leveling of machine tools and surface plates. Straightness, flatness and vertical measurement.

MATERIAL

- Body: Aluminum

FEATURES

- Wireless data transmission
  - Wireless type Levelnic, useful for leveling and tilt measurement;
    - In overhead location
    - In places where the cable can not reach
  - PC screen becomes display of Levelnic
    - Measurement data can be displayed on PC, using receiver and data display software
  - Custom-made base can be attached to the threaded screw holes (M5 × P0.8) at the bottom base
- ※ This model does not have display on the unit. PC or display unit is required for display the measured values.

SPECIFICATIONS

LEVELNIC	Measuring Range	± 5.000mm/m · ± 0.2865°
	Minimum Reading	0.001mm/m · 0.0001°
PRECISION LEVEL	Operating Temperature	0 ~ 40°C
	Accuracy *1	Operating temperature 17 ~ 23°C ± 0.85% rdg (0 ~ ± 2mm/m, 0 ~ ± 0.1146°) ± 1.0% rdg (± 2 ~ ± 5mm/m, ± 0.1146 ~ ± 0.2865°)
ANGLE	Operating temperature 0 ~ 40°C	± 2.6% rdg (0 ~ ± 2mm/m, 0 ~ ± 0.1146°) ± 2.7% rdg (± 2 ~ ± 5mm/m, ± 0.1146 ~ ± 0.2865°)
LEVEL	Repeatability	Within ± 0.005mm/m · ± 0.0003°
PROTRACTOR	Radio System	Bluetooth Class1 *2
	Power Source	9V 006P type dry cell 1 pc (nominal voltage 8.4V rechargeable battery can also be used) AC adapter (DC9V output · AC100V ~ 240V) included
	Run time (Continuous use)	Alkaline dry cell: Approx. 10 hrs (nominal voltage 8.4V rechargeable battery: Approx. 3 ~ 4 hrs.) ※ May vary depending upon measurement conditions
	Dimensions	L173 × W59 × H147mm (H: up to top of antenna) (base dimensions: L150 × W55mm)
	Accessories	DL-S2W, DL-S2W SUS, DL-S2W-E ● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell ● Receiving unit *3 ● Power source cable for wireless unit ● Dedicated display software
		DL-S2W (USB) SUS, DL-S2W (USB) ● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● AC adapter (DC9V output · AC100V ~ 240V) ● 9V dry cell ● USB receiving unit ● Dedicated display software

※ 1: % rdg indicates percentage of displayed value  
 ※ 2: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)  
 ※ 3: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Receiving Unit Type	Software Language	Base Material	Weight
010017	DL-S2W	D-SUB9	Japanese	Cast iron	2.1kg
010054	DL-S2W(USB)	USB			2.1kg
010114	DL-S2W SUS	D-SUB9		Stainless steel SUS303	2.1kg
010115	DL-S2W (USB) SUS	USB			2.1kg
010029	DL-S2W-E	D-SUB9	English	Cast iron	2.1kg



## LEVELNIC DL-m1 SERIES



Digital display with 0.01mm/m resolution. Unlike bubble level, there is no delay waiting for reading to settle, reducing human error.

- High precision Digital Level
- Stainless steel base type (DL-m1 SUS)
- Resolution 0.01mm/m

### USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement.

### MATERIAL

- Body: Aluminum

### FEATURES

- Compact, lightweight and simple operation
- Easy to fix the datum point, divide measurement value into half with one touch operation
- Fast output reduces installation time for field work



DL-m1 SUS



For vertical measurement ▶  
L-type Base  
 P130

Rust prevention ▶  
Zerust Film for Steel  
 P380

Order No.	Model No.	Base Material	Weight
010014	DL-m1	Cast iron	880g
010117	DL-m1 SUS	Stainless steel SUS303	920g

### SPECIFICATIONS

Measuring Range	± 5.00mm/m
Minimum Reading	0.01mm/m
Operating Temperature	0 ~ 40°C
Accuracy ※	Operating temperature 17 ~ 23°C ± 0.02mm/m or ± 3% rdg whichever is larger (0 ~ ± 2mm/m) ± 4% rdg (± 2 ~ ± 5mm/m) Operating temperature 0 ~ 40°C ± 0.02mm/m or ± 5% rdg whichever is larger (0 ~ ± 2mm/m) ± 6% rdg (± 2 ~ ± 5mm/m)
Repeatability	Within ± 0.01mm/m
Power Source	9V dry cell 1 pc
Run time (continuous use)	Zinc-carbon cell: Approx. 45 hrs. / Alkaline cell: Approx. 90 hrs. ※ May vary depending upon the measurement conditions
Dimensions	L105 × W50 × H73mm (base dimensions: L100 × W50mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

※ % rdg indicates the percentage of displayed value



## LEVELNIC DL-m3 SERIES



Digital display with 0.01mm/m resolution. Unlike bubble level, there is no delay waiting for reading to settle, reducing human error.

- High precision Digital Level
- Stainless steel base type (DL-m3 SUS)
- Resolution 0.01mm/m

**With data output**

### USE

- High precision leveling of machine tools and surface plates. Straightness and flatness measurement.

### MATERIAL

- Body: Aluminum

### FEATURES

- Digital display for easy to read measurement
- Compact, lightweight and simple operation
- Equipped with RS-232C output for combination use of Data recording, Straightness and Flatness software



DL-m3 SUS



For vertical measurement ▶  
L-type Base  
 P130

For flatness and straightness calculation ▶  
Levelnic Measurement Software  
 P138 ~139

Rust prevention ▶  
Zerust Film for Steel  
 P380

Order No.	Model No.	Base Material	Weight
010015	DL-m3	Cast iron	880g
010118	DL-m3 SUS	Stainless steel SUS303	920g

### SPECIFICATIONS

Measuring Range	± 5.00mm/m
Minimum Reading	0.01mm/m
Operating Temperature	0 ~ 40°C
Accuracy ※1	Operating temperature 17 ~ 23°C ± 0.02mm/m or ± 3% rdg whichever is larger (0 ~ ± 2mm/m) ± 4% rdg (± 2 ~ ± 5mm/m) Operating temperature 0 ~ 40°C ± 0.02mm/m or ± 5% rdg whichever is larger (0 ~ ± 2mm/m) ± 6% rdg (± 2 ~ ± 5mm/m)
Repeatability	Within ± 0.01mm/m
Output Signal	Conforms to RS-232C ※2
Power Source	9V dry cell 1 pc
Run time (continuous use)	Zinc-carbon cell: Approx. 35 hrs. / Alkaline cell: Approx. 70 hrs. ※ May vary depending upon measurement conditions
Dimensions	L105 × W50 × H73mm (base dimensions: L100 × W50mm)
Accessories	● Shock resistant aluminum case ● Warranty · Instruction manual · Inspection report ● 9V dry cell

※ 1: % rdg indicates percentage of displayed value

※ 2: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

## LEVELNIC DL-m3LS



HOW TO MOVE

Levelnic DL-m3 on L-type Base.  
X-axis, Y-axis as well as Z-axis measurements are possible.

For flatness and straightness calculation ▶  
Levelnic Measurement Software  
P138  
~139

Rust prevention ▶  
Zerust Film for Steel  
P380



※ Base does not have magnetic capability

### USE

- High precision leveling of machine tools and surface plates.  
Straightness, flatness and vertical measurement.

### MATERIAL

- DL-m3 / Body: Aluminum
- L-type base: Cast iron

### FEATURES

- Digital display
- Compact and lightweight
- Equipped with RS-232C output for combination use of Data recording, Straightness and Flatness software
- L-type base allows measurements in the vertical direction
- With 130° V groove

### ACCESSORIES

- Shock resistant aluminum case
- Warranty · Instruction manual · Inspection report
- 9V dry cell

Please refer to DL-m3 (P129) for detailed specifications for this unit

Order No.	Model No.	Base Squareness (mm)	Weight
010019	DL-m3LS	Within ± 0.035	2.8kg

## L-TYPE BASE FOR LEVELNIC DL-mL

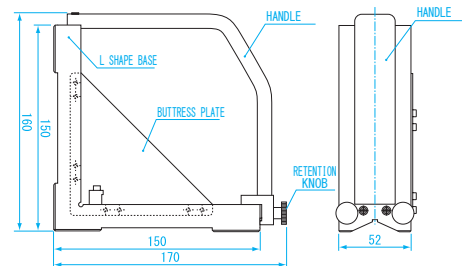
Levelnic DL-m1, m3 mounted on base will be able to take vertical measurements

Rust prevention ▶  
Zerust Film for Steel  
P380



### ● DIMENSIONS

Units: mm



※ Base does not have magnetic capability

### USE

- L-type base for Levelnic

### MATERIAL

- Cast iron

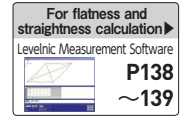
### FEATURES

- Applicable Levelnic: DL-m1 series, DL-m3 series
- Vertical (Z-axis) measurement is available by applicable Levelnic mounted on
- With 130° V groove

### ACCESSORIES

- Shock resistant aluminum case

Order No.	Model No.	Base Squareness (mm)	Weight
010022	DL-mL	Within ± 0.035	1.9kg



## BLUETOOTH BOX

Attach Bluetooth Box to applicable levelnic for wireless data transmitting.  
Can be functioned in any countries by using Bluetooth dongle.

### USE

- Wireless data transmitting is available by attaching to applicable Levelnics

### MATERIAL

- Body: Aluminum
- Switch Panel: ABS

### FEATURES

- RS-232C output signal from Levelnic is transmitted by Bluetooth
- Can be used in any country with a locally available dongle
- Eliminating cables greatly improves work efficiency



Mounting example to DL-S3

### SPECIFICATIONS

Input	Levelnic RS-232C signal only		
Wireless	Bluetooth ※ Class depends on USB dongle		
Applicable USB Dongle adaptor	Bluetooth 3.0 and higher, SPP profile		
Power Source	Lithium polymer battery (chargeable with USB charging cable)		
Run time (continuous use)	Approx. 7 hrs.	Charging	Approx. 2 hrs.
Dimensions	L82 × W35 × H24mm		
Applicable Levelnic	DL-S3 series, DL-m3 series, DL-m3LS, DL-D3, DL-S3L		
Accessories	Data cable, USB charging cable, mounting plate, instruction manual, Bluetooth USB dongle adaptor Class 1 (Japan Only)		

Order No.	Model No.	Weight
152036	DTW-DL01	80g



LEVELNIC

PRECISION LEVEL

ANGLE

LEVEL

PROTRACTOR

## LEVELNIC WIRELESS ADAPTER DL-BW / DL-BW (USB)

Allows communicating with Levelnic using Bluetooth.  
Wireless range of 50-100mm line-of-sight.

### USE

- Wireless adapter for Levelnic

### MATERIAL

- Body: Stainless

### FEATURES

- The RS232C output signal is transmitted using Bluetooth wireless
- Eliminating cables greatly improves work efficiency



Mounting example to DL-S3C

### SPECIFICATIONS

Input	Levelnic RS-232C signals (Levelnic use only)		
Wireless	Bluetooth Class1 ※1		
Power Source	AA battery 6 pcs (rechargeable batteries can be used)		
Run time (continuous use)	Alkaline cell: Approx. 70 hrs. / Zinc-carbon cell: Approx. 30 hrs. 1700mAh rechargeable battery: Approx. 45 hrs. ※ May vary depending upon measurement conditions		
Dimensions	L143 × W50 × H173mm (including transmission unit)		
Applicable Levelnic	DL-S3 series, DL-S3L, DL-m3, DL-m3LS, DL-D3 ※ DL-S3 series can direct mount		
Accessories	Mounting parts, receiving unit, USB power cable for receiving unit (DL-BW only), AA battery × 6, instruction manual		

※ A small thermal printer can not be used

※ 1: Our Bluetooth system qualification is with TELEC (Japan), FCC (U.S.A), CE (EU), KCC (South Korea)

※ 2: PC without D-USB pin port (RS-232C) requires USB serial transmitter (optional)

Order No.	Model No.	Receiving Unit Type	Weight
010038	DL-BW	D-SUB9 ※2	530g
010055	DL-BW (USB)	USB	530g