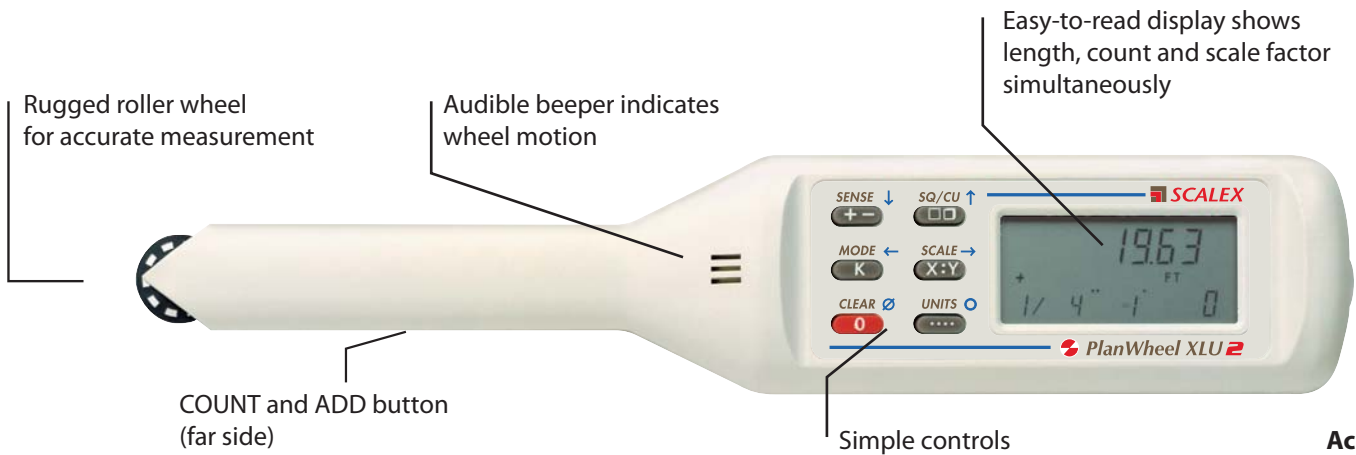


# PlanWheel™ XLU2



**Measure plans the fast, accurate way with the Scalex PlanWheel™ XLU2.** Here is the perfect tool for taking scaled measurements from blueprints, maps, and plans. Just select the built-in scale factor to match the plan and roll the PlanWheel XLU2. The measurement is displayed instantly. PlanWheel XLU2 can be used with your computer, Stand-Alone, or XLU2 Interface kit (*sold separately*).

- 111 built-in and thousands of available user-defined scale factors. Includes all common scales - imperial and metric too
- Calculate auto-scale factor from reduced, enlarged or odd-scale drawings
- Measures in inches, feet, yards, miles, centimeters, and kilometers
- Calculates square and cubic dimensions for regular areas and volumes
- Counter and adder buttons on probe tip let you count items or add fixed lengths as you scale
- Create, store and retrieve 2 user-defined scale factors
- Clear, audible tone indicates wheel movement
- Automatic shut-off assures long battery life
- Low battery indicator
- Plus minus (+ -) mode allows user to simply back-up to deduct an over-rolled measurement

SPECIFICATIONS	
Accuracy:	±0.25%
Resolution:	1.0mm (.04")
Batteries:	2 x AAA (included)

**PlanWheel XLU2  
is Computer  
Compatible!**



**Also available:**



**Hard Plastic Protective Case**  
- protect your investment



**Computer Interface Kit**  
- connects to any Windows™ application

## OPERATING YOUR PLAN WHEEL

Remove the two AAA batteries from the battery compartment of the PlanWheel. Observe polarity.

The PlanWheel automatically shuts off if it is not used for about seven minutes.

Turn the PlanWheel on again by pressing any button. The display will contain all the same information, including the same scale factor, as when it was last used.

Battery life depends on many factors such as the type of battery and the temperature. Expect about 100 to 400 hours of operation (on-time) from one set of batteries. The batteries will last about 2 to 6 months in a Plan Wheel which is turned off.

When the batteries get low, the low battery indicator flashes **5**. Replace both batteries at the same time. Observe the correct polarity as shown inside the battery compartment.

The PlanWheel requires no maintenance. However, you should keep the wheel clean and free from dirt. Check the correct operation of the PlanWheel occasionally by rolling it over a known distance.

If you store the PlanWheel for an extended period, remove the batteries.

## MAKING A MEASUREMENT

If necessary, press **MODE** to select the units of readout, such as miles, yards, feet, or inches **7**.

Press **CLEAR** to zero the measurement.

The tip of the PlanWheel is pointed to make it easier to take accurate measurements. Roll the wheel along the plan and read the measurement on the PlanWheel display **8**.

If you scale a distance which is too large to display, the display will show all dashes (---). In this case, you may be able to recover the measurement by switching to a larger unit, for example from feet to yards.

## SENSE BUTTON

Press **SENSE** to change the way the scaler adds length **3**:

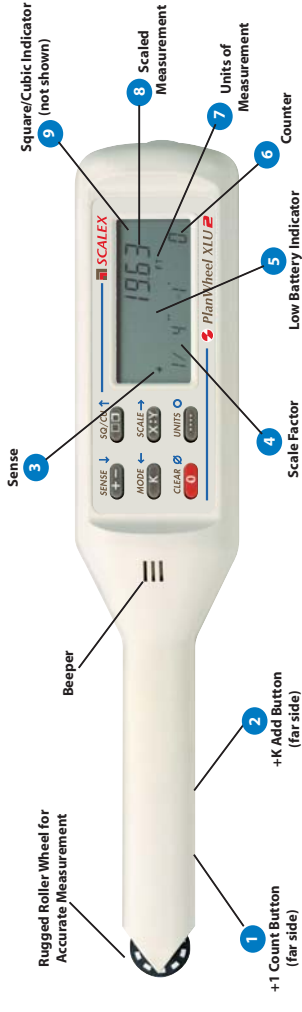
- + - Add in forward, subtract in reverse. (If you scale past the end, simply back up.)
- + Add in both directions. (Scale in any direction)
- Subtract in both directions.

## BEEPER

The PlanWheel beeps when you roll it. The beep is slightly longer when adding length and shorter when subtracting.

To turn the beeper off, hold down **CLEAR** and press **SOLO**.

Repeat to turn the beeper back on.



## SETTING SCALE FACTORS

Press **MODE** if you need to change the scale factor group.

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Metric	Metric	Metric	Engineering	Engineering	Map	Architectural	Auto - Scale
1:1	1:1,000	1": 10'	1": 100'	1": 1,000'	1": 1,000'	1:12"	1"
1:2	1:1,250	1": 20'	1": 166.2/3'	1": 1,200'	1": 1,200'	1:16"	1"
1:3	1:1,500	1": 30'	1": 200'	1": 1,500'	1": 1,500'	1:32"	1"
1:4	1:200	1:1,625	1": 40'	1": 250'	1": 2,000'	1:8"	1"
1:5	1:250	1:2,000	1": 50'	1": 300'	1": 2,500'	3/16"	1"
1:10	1:500	1:2,500	1": 60'	1": 333 1/3'	1": 3,000'	1/4"	1"
1:20	1:1,000	1:3,000	1": 80'	1": 400'	1": 3,500'	3/8"	1"
1:30	1:1,500	1:4,000	1": 100'	1": 500'	1": 4,000'	1/2"	1"
1:33	1:700	1:4,500	1": 90'	1": 583 1/3'	1": 4,500'	3/4"	1"
1:40	1:800	1:5,000	1": 100'	1": 600'	1": 5,500'	1 1/2"	1"
1:50	1:900	1:5,500	1": 110'	1": 625'	1": 6,000'	2"	1"
1:60	1:1,000	1:6,000	1": 120'	1": 666 2/3'	1": 6,500'	3"	1"
1:70	1:1,100	1:6,500	1": 130'	1": 700'	1": 7,000'	4"	1"
1:75	1:1,200	1:7,000	1": 140'	1": 750'	1": 7,500'	4 1/2"	1"
1:80	1:1,250	1:7,500	1": 150'	1": 800'	1": 8,000'	5"	1"
1:90	1:1,300	1:8,000	1": 160'	1": 850'	1": 8,500'	5 1/2"	1"
	1:1,400	1:8,500	1": 170'	1": 900'	1": 9,000'	6"	1"
	1:1,500	1:9,000	1": 180'	1": 950'	1": 9,500'	6 1/2"	1"

After you reach the group you want, press **SCALE** until you reach the scale factor you want.

## USER SCALE FACTORS

If the correct scale-factor is not listed, you may enter it yourself:

Press **MODE** until the correct group appears. (Scale-Factors cannot be altered in Group 5 Architectural).

Hold **CLEAR** down for two seconds. The left-most digit of the scale factor will begin to flash. Enter the new scale factor (SEE ENTERING NUMBERS).

## MEASURING AREAS AND VOLUMES

The PlanWheel can be used to measure regular area or volume. Regular measures are those with straight, perpendicular sides.

## TO MEASURE AREA

Set the scale factor and roll the PlanWheel as usual along one side of the rectangular area to be measured.

Press **SOLO**. The square measure symbol (□) will begin flashing **9**.

Roll the wheel along the other side of the rectangle. The PlanWheel will display the resulting area.

## TO MEASURE VOLUME

Scale the area shown on the plan as described above. Press **SOLO** a second time. The cubic measure symbol (□) will flash **9**. Roll the wheel over a distance equal to the height. (Since most drawings are flat plan layouts, it may be necessary to draw a small line equal to this distance.) The PlanWheel will display the resulting volume.

To cancel the square or cubic measurement and start over, press **CLEAR**.

## ENTERING NUMBERS

When one digit is flashing on the PlanWheel display, you are ready to enter a number according to the blue symbols:

- ← Move flashing digit one to the left.
- Move flashing digit one to the right.
- ↑ Increase flashing digit.
- ↓ Decrease flashing digit.

When the number is correct, press **UNITS**. The PlanWheel will return to normal operation.

Or to cancel, press **CLEAR**. The PlanWheel will return to normal operation without entering the new value (the old value is kept).

## METRIC MEASUREMENTS

While holding down **CLEAR**, press **UNITS** to select the desired indicators **7**.

MI YDS FT IN  
KM M CM  
MI YDS FT IN KM M CM

Standards indicators.  
Metric Indicators.  
Both

After you release **CLEAR**, press **UNITS** to select the units you want.