



## BULLSEYE 30



## USER MANUAL 1.0



## User Manual



Congratulations on the purchase of the Imex Bullseye 30.

Carefully read the Safety Instructions and the User Manual before using this product.

The person responsible for the Bullseye 30 must ensure that all users understand these directions and adhere to them.

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## Safety Instructions

### SYMBOLS USED

The following displays are used to distinguish precautions by the degree of injury or damage that may result if the precaution is ignored.

#### WARNING:

Indicates a potentially hazardous situation or an unintended use which if not avoided, could result in death or serious injury.



#### CAUTION:

Indicates a potentially hazardous situation or an unintended use which if not avoided, could result in death or serious injury.



Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and efficient manner.

### USE OF THE BULLSEYE 30

- a) Press the button  to switch on the device. The laser beam emits from the front.
- b) Press  again to measure the distance. The result will show on the screen.

Possible danger when using the device:

- The laser beam will harm eyes when aimed at eyes directly
- The device may produce a spark and ignite dust or gas
- When cleaning battery electrolyte, fingers may be affected
- The device may cause hazardous radiation explosion
- Laser exposure radiation damage

Caution:

- Do not look straight at the laser beam
- Do not use the device in inflammable and explosive environment
- Remove the batteries to avoid the electrolyte leakage when not using the device.
- Do not attempt to try other functions that the device does not have
- Do not attempt to convert the performance of the device in any way

## CARE

Wipe off dirt with a damp, soft cloth. If the water does not clean the dirt, use a clean cloth moistened with alcohol to wipe the dirt. Be careful with the optical components (such as optical lens). Wipe with a clean soft cloth or cotton swab moistened with distilled water (as cleaning glass or camera lens). Do not use aggressive cleaning agents or solutions.

## PERMITTED USE

- Measuring distances
- Computing functions, e.g. areas and volumes

## PROHIBITED USE

- Using the Bullseye 30 without instructions.
- Using outside the stated limits.
- Deactivation of safety systems and removal of explanatory and hazard labels.
- Opening of the Bullseye 30 by using tools (screw drivers, etc.), as far as not specifically permitted for certain cases.
- Carrying out modification or conversion of the product.
- Use of accessories from other manufacturers without the express approval of Imex.
- Deliberate or irresponsible behavior on scaffolding, when using ladders, when measuring near machines which are running, or near parts of machines or installations which are unprotected.
- Aiming directly into the sun.
- Deliberate dazzling of third parties; also in the dark.
- Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)

## LIMITS OF USE

See section "Technical Data".

The product is designed for use in areas permanently habited by humans; do not use the product in explosive hazardous areas or in aggressive environments.

## AREAS OF RESPONSIBILITY

### IMEX RESPONSIBILITY:

- Responsible for providing security products including manual and origin of the parts.

### RESPONSIBILITIES OF THE MANUFACTURER OF NON-ORIGINAL ACCESSORIES:

The manufacturers of non-original accessories for the product are responsible for developing, implementing and communicating safety concepts for their products. They are also responsible for the effectiveness of these safety concepts in combination with the Bullseye 30.

### RESPONSIBILITIES OF THE PERSON IN CHARGE OF THE BULLSEYE 30:

#### WARNING:

The person responsible for the Bullseye 30 must ensure that the Bullseye 30 is used in accordance with the instructions. This person is also accountable for the placement of personnel and their training and for the safety of the Bullseye 30 when in use. The person in charge of the Bullseye 30 has the following duties:

- To understand the safety instructions on the product and the instructions in the User Manual.
- To be familiar with local safety regulations relating to accident prevention.
- To inform Imex immediately if the Bullseye 30 becomes unsafe.

## HAZARDS IN USE

#### CAUTION:

Watch out for inaccurate distance measurements if the Bullseye 30 is defective or if it has been dropped or has been misused or modified.

## PRECAUTIONS:

Carry out periodic test measurements, particularly after the Bullseye 30 has been subject to abnormal use, and before, during and after important measurements.

Make sure the optics is kept clean and that there is no mechanical damage to the bumpers.

### CAUTION:

In using the Bullseye 30 for distance measurements or for positioning moving objects (e.g. cranes, building equipment, platforms, etc.) Unforeseen events may cause inaccurate measurements.

Only use this product as a measuring sensor, not as a control device. Your system must be configured and operated in such a way, that in case of an inaccurate measurement, malfunction of the device or power failure due to installed safety measures (e.g. safety limit switch); it is assured that no damage will occur.

### WARNING:



Flat batteries must not be disposed of with household waste. Care for the environment. Always prevent access to the product by unauthorized personnel, and take them to the collection points provided in accordance with national or local regulations. The product must not be disposed of with household waste. Dispose of the product appropriately in accordance with the national regulations in force in your country.

## ELECTROMAGNETIC COMPATIBILITY (EMC)

The term “electromagnetic compatibility” is taken to mean the capability of the product to function smoothly in an environment where electromagnetic radiation and electrostatic discharges are present, and without causing electromagnetic interference to other equipment.

### WARNING:

The product conforms to the most stringent requirements of the relevant standards and regulations. Yet, the possibility of it causing interference in other devices cannot be totally excluded.

**⚠ CAUTION:**

Never attempt to repair the product yourself. In case of damage, contact Imex.

**Laser Classification:  
Integrated distance meter**



The Bullseye 30 produces a visible laser beam which emerges from the front of the Bullseye 30.

It is a Class 2 laser product in accordance with:

- IEC60825-1: 2007 "Radiation safety of laser products" Laser Class 2 products

Do not stare into the laser beam or direct it towards other people unnecessarily. Eye protection is normally afforded by aversion responses including the blink reflex.

**⚠ WARNING:**

Looking directly into the beam with optical aids (e.g. binoculars, telescopes) can be hazardous.

Precautions:

Do not look directly into the beam with optical aids.

**⚠ CAUTION:**

Looking into the laser beam may be hazardous to the eyes.

Precautions:

Do not look into the laser beam. Make sure the laser is aimed above or below eye level (particularly with fixed installations, in machines, etc.).


## Start-up

### 1. INSERTING/REPLACING BATTERIES

Operation diagram

1. Press the end of device
2. Pull out the buckle belt
3. Open the battery compartment lid



Replace the batteries when the symbol  flashes permanently in the display.



Remove the batteries before any long period of non-use to avoid the danger of corrosion.




Only use alkaline or rechargeable batteries.

## Menu Functions

### 1. TURN ON THE LASER ( )


To turn on the Laser press the  button. Display shows  mark.

Aim the target and press  button again, to display the measurement result. Press



button and turn off the laser.

### 2. MEASUREMENTS

Press  button and hold to change the unit of distance measurement. The following units are available: m (meter), ft. (feet), in (inch), ft. / in (feet -inch 1/16), (ruler).

### 3. SCREEN CHANGE






Press these two buttons together to change the orientation of the screen.




## Operation

### 1. SWITCHING ON AND OFF


Press the  button switches on the Bullseye 30 and laser. The display shows the battery symbol until the next button  is pressed.



Press and hold the  button to switch OFF the Bullseye 30. The Bullseye 30 switches off automatically after three minutes of inactivity.


### 2. CLEAR BUTTON



Press the  button. The last action is cancelled. While making area or volume measurements, each single measurement can be deleted and remeasured in series.

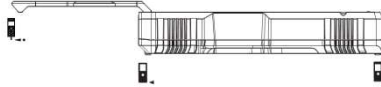
### 3. REFERENCE SETTING

The default reference setting is from the rear of the Bullseye 30. The display will show .

Press the  button to change the reference to the front. The display will show .



Press the  button, to set the rear reference again. Release belt clip and replace in opposite direction to extend the device.

Press the  button to measure with the bracket as the reference edge. The display will show .




## Measuring

### 1. SINGLE DISTANCE MEASUREMENT



Press  to activate the laser. Press  again to trigger the distance measurement. The result is displayed immediately.



### 2. CONTINUOUS MEASUREMENT

Press and hold down this button  for 2 seconds to make a continuous measurement. Press it again to stop the continuous measurement.



## Functions


### 1. AREA


Press  once. The symbol  appears in the display.


Press the  button to take the first length measurement (e.g. Length). Press  again to take the second length measurement (e.g. Width). The result is displayed in the summary line.

### 2. VOLUME

 Press this button twice. The symbol  appears in the display.

 Press this button to take the first length measurement (e.g. Length).





 Press this button to take the second length measurement (e.g. Width)

 Press this button to take the third length measurement (e.g. Height).  
The volume then appears in the summary line.

## Appendix

### MESSAGE CODES

All message codes are displayed with either the icons below or "Error". The following errors can be corrected:

Icon	Cause	Remedy
	Calculation error, Receiving the reflected light too weak or too strong, Measurement time is too long.	Reoperation, change a better surface reflecting or using target plate.
	The goal of the ambient, Light is too strong.	Change the light for measuring.
	Marking function too high (+40°C) or too low (0°C)	Cool down or warm up the instrument, External temperature will be available from 0°C to +40°C.
	Hardware error	Switch on / off the instrument several times. If the symbol still appears, then your instrument may be defective. Please call your dealer for assistance.

## Technical Data

Model	S20/S30 /S45 m instrument
Measuring range	0.05 to 20M/30M/45M*
Measuring accuracy	Typical $\pm 2\text{mm}^*$
Display accuracy	1mm
Laser classification	Class 2
Pollution degree	2
Laser type	620-690nm, <1mW 0.16x0.6 mrad, 0.25s
Area,Volume measuring	●
Continuous measurement	●
Show beep	●
Protection against splashes and dust	IP 54
Temperature range for operation	0°C ~ +40°C
Temperature range for storage	-20°C ~ +70°C
Battery life	5000 measurements
Battery selection	LR03(AAA)2 × 1.5v
Laser switch-off automatically	After 30 seconds
Instrument switch-off automatically	After 3 minutes
Dimensions	120 × 38 × 20MM
weight(without battery)	62g
max. Operating altitude: 2000m ; max.relative humidity: 0-95%	

\*Use a target plate to increase the measurement range during daylight or if the target has poor reflection properties.

\*\*Measurement accuracy could reach  $\pm 2\text{mm}$  in good conditions (good measurement surface, room temperature). If under adverse measuring conditions, such strong light, high temperature, or reflected surface, the deviation over distance could increase slightly.

## Measuring Conditions

### 1. MEASURING RANGE

Refer to technical specification for the measuring range. At night or dusk and if the target is in shadow, the measuring range without target plate is increased. Use a target plate to increase the measurement range during daylight or if the target is poorly reflected

### 2. TARGET SURFACES

Measuring errors can occur when measuring toward colorless liquids (e.g. water) or dust free glass, Styrofoam or similar semipermeable surfaces. Aiming at high gloss surfaces may deflect the laser beam and lead to measurement errors. Against non-reflective and dark surfaces the measuring time may increase.

- If the Bullseye 30 is used in a manner not specified by the Imex, the protection provided by the Bullseye 30 may be impaired.
- This Bullseye 30 contains no operator serviceable parts; it must be serviced by the qualified person only.

### CARE

Do not immerse the Bullseye 30 in water. Wipe off dirt with a damp, soft cloth. Do not use aggressive cleaning agents or solutions. Handle the Bullseye 30 as you would a telescope or camera.

### WARRANTY

The Bullseye 30 comes with a one-year warranty. This warranty effective premise is according to the company's operating instructions for correct operation, processing, cleaning and maintenance of the tool, and the tool is maintained good technical condition. This means that in the tool can be used in the company's original components and spare parts. This warranty is provided in the tool during the whole life expectancy of the defective parts of the repaired or replaced free of charge. If the component due to normal wear and in need of repair of replacement, is not in the warranty range.

All illustrations, descriptions and technical specifications may be subject to change without prior notice.

### WARRANTY CARD

Instrument Model	
Serial Number	
Date of sales	
Sale company	
Sale Address	

Maintenance		
Date of maintenance	Maintenance center	Replacement parts

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