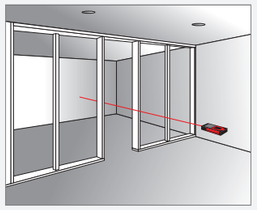
## ISO for Range and Accuracy

The range and accuracy of laser distance meters depend on light conditions and reflectivity of the measuring target. What's truly important is that the instruments not only perform under perfect laboratory conditions, but above all under the kind of everyday working conditions encountered on construction sites. This is why a new international standard of laser distance meters was developed to identify which laser distance meters can be tested and compared with each other.

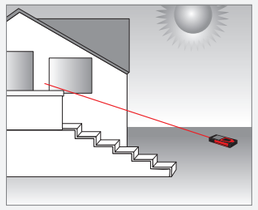
Differing factors, such as the structure of the surface and the color of the measuring point, the strength of ambient light and the temperature at which a measurement is taken, have a very significant effect on the accuracy and the maximum range achieved. These factors have not previously been defined by a standard, each manufacturer has used its own definition. It has therefore become increasingly difficult for the customer to make a comparison between the large and growing number of laser distance meters on the market. However, misunderstandings or imprecise data can result in serious unreliability of measurements or even expensive errors.

The ISO Standard 16331-1 defines in detail how information concerning accuracy and range must be presented and describes the necessary measuring procedures. This renders specifications of laser distance meters capable of being tested by independent institutions, thus making direct comparisons possible.

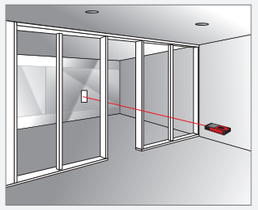
The ISO Standard 16331-1 takes the following measuring conditions into account:



***Measurement under favorable conditions – conditions which often apply for interior use:**
Weak ambient light (3 klux)
Measuring to white painted wall
Room temperature



**Measurement under unfavorable conditions – conditions which often apply for exterior use:**
Bright sunshine (30 klux)
Measuring to white painted wall
Total operating temperature range



**Other measuring conditions can also be specified, for example:**
Measuring to a defined target plate
Measuring to unfavorable measuring points with strong or weak reflectivity (metal surface or wet concrete)

A customer who purchases a laser distance meter which conforms to the ISO standard can arrive at reliable conclusions with respect to the maximum range and accuracy achievable under defined measuring conditions. This is crucial for assessing the advantages for everyday use on the construction site.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# Laser Distance Meter

# FOS F02

## Simple Operation, Precise Results

Quickly measures distances and computes total area, volume, more.


image

TAJIMA

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# Simple Operation, Precise Results

Quickly measures distances and computes total area, volume, more.


## Laser Distance Meter

## F05

LKT-F05R

**Professional**

- Indoor use
- Standard Range 50m
- Standard Tolerance ±2.0mm


## Laser Distance Meter

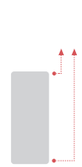
## F02

LKT-F02R

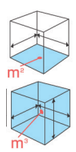
**Standard**

- Indoor use
- Standard Range 20m
- Standard Tolerance ±3.0mm

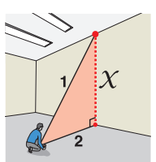
## Laser distance meter for both professionals and DIY



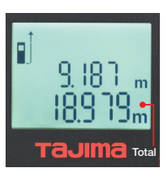
Starting Point Options



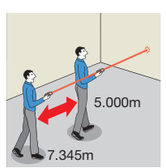

Compute total area or volume




Pythagoras
Two or three point pythagoras




Addition and subtraction function!




Continuous Measuring

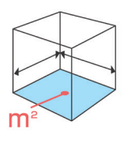

Accessories
·Protective Case
·Neck strap
·Two AAA batteries


| Art.Nr. | *Range with favorable conditions | *Accuracy with favorable conditions | Measuring units | Weight with batteries | EAN |
|---|---|---|---|---|---|
| LKT-F05R | 0.05m–50m | ±2.0mm | m, ft, in | 96g | 4975364 048660 |

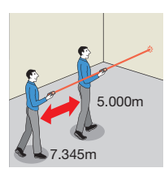
## Always portable, leightweight and compact body

Starting Point Options

Lightweight and Compact




Compute total area




Continuous Measuring

Accessories
·Pouch
·Two AAA batteries


| Art.Nr. | *Range with favorable conditions | *Accuracy with favorable conditions | Measuring units | Weight with batteries | EAN |
|---|---|---|---|---|---|
| LKT-F02R | 0.2m–20m | ±3.0mm | m, ft, in | 75g | 4975364 048646 |