

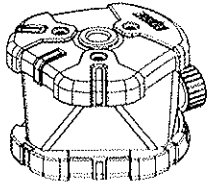


# Wide angle reflecting target for robotic total station ZERO220 Instruction Manual

ZERO220 is a wide angle reflecting target especially designed for robotic total station. Surrounded 5 prisms catch and reflect the laser signal widely. Also, it can be used with 9mm pole as prism constant 0.

## •Package Contents

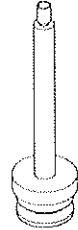
1. ZERO220



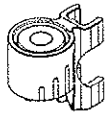
3. Shoe for MAG50 (DMP-M6)



4. Adapter for Prism Pole (MAG50)



2. Circular level for DM pin pole (PC-40L)



5. Soft storage case

6. Protection leatherette band for prism

7. Instruction manual

## •Specifications

### ZERO220

Model	: Z-220
Dimension	: 82(W)x93(D)x58(H) mm
Weight	: 196 g
Center hole	: $\Phi$ 9mm pole compatible
Operating range	: Vertical direction 30° (15° each from prism centre height /Fig.1) Horizontal direction 220°(110° each from the middle of collimation target /Fig.2)
Measuring range	: Min / 5 m Max / Tracking mode 600m Distance measurement 1000m *1 *2
Prism constant	: 0mm *3

\*1. Tested condition was cloudy with 20km visibility without haze or heat haze.

\*2. Actual measurable range is depending on total stations.

\*3. In case total station targets an edge between prisms, the measuring value may occur maximum 2mm margin of error.

### Circular Level

Model	: PC-40L
Dimension	: 22(W)x34(D)x34(H) mm
Weight	: 12 g
Sensitivity	: 46' /2mm
Compatible size	: 9mm

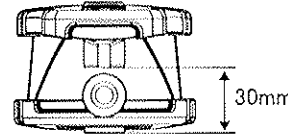
### Adapter for Prism Pole

Model	: MAG50
Pole length	: 60 mm
Pole diameter	: $\Phi$ 9 mm
Weight	: 90g
Screw	: 5/8 inch female M6 male

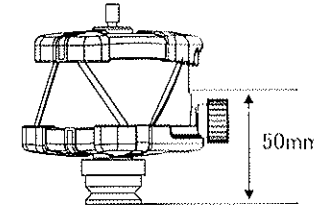
### Shoe for MAG50

Model	: DMP-M6
Length	: 50 mm
Diameter	: $\Phi$ 9 mm
Weight	: 10g
Screw	: M6 female

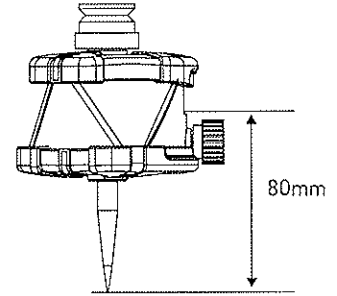
•Prism height  
ZERO220



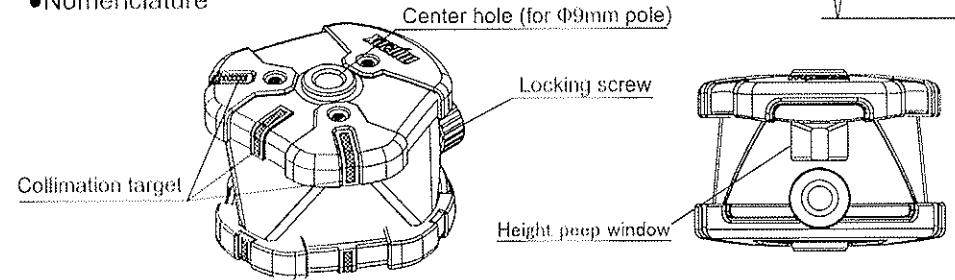
With MAG50 for prim pole of top



With MAG50 & DMP-M6



## •Nomenclature



## •Operating range

Fig.1

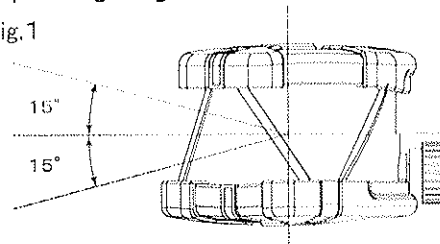
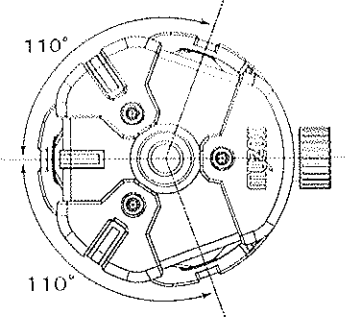


Fig.2



## •Caution

- Be sure to check damage before use.
- Do not have a shock and vibration.
- Be careful with sharp edge of prism in case the prism breaks.
- Prism unit can be repaired. To get better performance please contact us if you have damaged prism.
- If product get wet, please fully dehydrate before using or putting in soft case.
- Adaptor for prism pole has sharp point. Please handle carefully.
- Be sure to keep clean the prism surface.
- Do not decompose and remodel it.
- It is necessary to note that this product does not correspond to all Total Stations.
- The bubble position can be influenced by static electricity. In this case, make sure to remove static electricity before use.
- Regarding circular level, there is a possibility of liquid spill in over 60 degree environment. Do not expose to high temperature environment long time, especially inside of sun-heated cars.

## •Disclaimer

- 1) The user of this product is expected to follow the instruction manual and make periodic checks of the products performance.
- 2) The manufacturer, or its representatives, assumes no responsibility for results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits.
- 3) The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster, (an earthquake, storms, floods etc.), A fire, accident, or an act of a third party and/or a usage any other usual conditions.
- 4) The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data, an interruption of business etc., caused by using the product or an unusable product.
- 5) The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage except for explained in the instruction manual.
- 6) The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement, or action due to connecting with other products.

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