360° Prism **ATP1/2 Operator's Manual**

PRECAUTIONS FOR SAFE OPERATION

For the safe use of the product and prevention of injury to operators and other persons as well as prevention of property damage, items which should be observed are indicated by an exclamation point within a triangle used with WARNING and CAUTION statements in this operator's manual.

The definitions of the indications are listed below. Be sure you understand them before reading the manual's main text.



WARNING

Ignoring this indication and making an operation error could possibly result in death or serious injury to the operator.



CAUTION

Ignoring this indication and making an operation error could possibly result in minor injury or property damage.

MARNING.

 When securing the instrument in the carrying case make sure to set all the locks. Failure to do so could result in the instrument falling out while being carried, causing injury.



/!\ CAUTION

- Do not use the carrying case as a footstool. The case is slippery and unstable so a person could slip and fall off it.
- Do not place the instrument in a damaged case or in a case with a damaged belt. The case or instrument could be dropped and cause injury.
- · Do not carry the prism with the foot shoes pointed at other persons. A person could be injured if struck by the foot shoes.

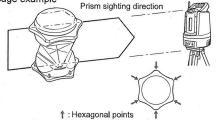
Keep hands and feet away from the foot shoes when fixing the prism pole in the ground. A hand or foot stab wound could result.

PRECAUTIONS

Precautions regarding use

- Never place the prism or the instrument directly on the ground. Sand or dust may cause damage to the screw holes or the centering screw on the base plate.
- Do not drop or tip over the instrument, nor stick the foot shoe in the ground strongly. Heavy shocks or vibration may damage the prism or affect the prism height.
- Keep the prism clean and never touch the prism surface with your finger. If the prism is dirty, accurate measurement result cannot be obtained.
- To perform high accuracy measurements, face the guide on the prism to the instrument.

Usage example



· Use ATP2 for models with smaller objective aperture (e.g. LN-100).

Precautions regarding maintenance

- · Wipe off moisture completely if the instrument gets wet during survey work.
- · Always clean every part of the instrument before returning it to the case. The prism requires special care. First, dust it off with the lens brush to remove tiny particles. Then, after providing a little condensation by breathing on the prism, wipe it with a clean cloth (washed-out cotton etc.) or lens
- To clean the instrument or the carrying case, lightly moisten a soft cloth in a mild detergent solution. Wring out excess water until the cloth is slightly damp, then carefully wipe the surface of the unit.
- Do not use any alkaline cleaning solutions, alcohol, or any other organic solvents on every part of the instrument.
- Store the instrument in a dry room where the temperature remains fairly constant.
- When removing the instrument from the carrying case, never pull it out by force. The empty carrying case should be closed to protect it from moisture.

PRISM CONSTANT

Reflective prisms each have their prism constant. Set the prism constant correction value of the reflective prism you are using.

Prism constant:

7 mm

PRISM HEIGHT

Prism height is as follows.

change without notice.

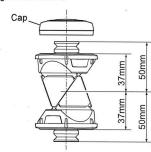
Thank you for selecting Topcon product.

simplified for easier understanding.

· The specifications and general appearance of the

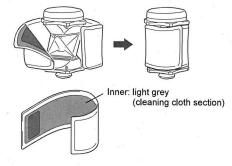
Some of the diagrams shown in this manual may be

instrument, and the content of this manual are subject to



Protective cover

Attach the protective cover when the prism is not being used to protect the prism surface from dirt and damage.



· The inner (light grey) section can be used as a cleaning cloth to wipe the surface of the prism.

SPECIFICATIONS

Prism constant

Prism height

7 mm

3D positioning accuracy (Standard deviation)

inclination both less than 20°) 37 mm (When attaching the Onetouch attachment, from the

3 mm Angles of elevation and

attachment part (flange face))

50 mm (From the bottom of the attachment part)

Screw thread of the attachment part W5/8 inch

Operating temperature range -20 to 50°C Storage temperature range -30 to 70°C

70 (W) x 104 (H) mm (with cap) Weight 265 g (with cap)

EXCEPTIONS FROM RESPONSIBILITY

- · The manufacturer, or its representatives, assumes no responsibility for any damage, or loss of profits (change of data, loss of data, loss of profits, an interruption of business etc.) caused by use of the product or an unusable product.
- The manufacturer, or its representatives, assumes no responsibility for any damage, or loss of profits caused by usage different to that explained in this manual.
- · The manufacturer, or its representatives, assumes no responsibility for consequential damage, or loss of profits due to heavy rain, strong wind, high-temperature and humidity, or storing or use of the product under unusual
- Product failures caused by rebuilding are out of warranty.
- Cautions and warnings included in this manual do not cover all the possible events.

TOPCON CORPORATION (Manufacturer)

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1 360° prism 2 Protective cover

STANDARD EQUIPMENT

3 Cap