

SPECIFICATIONS

Model	HTS-220R
Angle Measurement	
Angle measuring principle	Absolute Encoding
Minimum Readout	1"/5"/10" (0.3mgon/1.5mgon/3mgon)
Accuracy *1	2"
Distance Measurement (Prism mode)	
Single Prism	3000m (9842ft.) under good condition *3
Three Prisms	6000m (19685ft.) under good condition *3
Accuracy *1	2mm+2ppm
Measurement Time (Fine/ Quick/ Tracking)	1.5s/ 1s/ 0.5s
Distance measurement (Reflectorless)	
Reflectorless Range *2	600m (1968.5ft.)
Single prism	>7500m (24606ft.)
Accuracy	3mm+2ppm
Measurement Time	1.5s
Telescope	
Magnification	30x
Field of View	1°30' (2.7m at 100m)
Minimum Focusing Distance	1.5m
Reticle	Illuminated
Tilt Sensor	
System	Biaxial compensator
Working Range	±3'
Accuracy *1	1"
Communication	
Internal Data Memory	Approx. 20,000 Points
Interface	Standard RS232,SD card, Micro USB
Data Format	ASCII
Power Supply	
Battery Type	Rechargeable Li-ion battery
Voltage/ Capacity	BT10: 7.4V (DC) / 3000mAh
Operating Time With BT10 *4	Optimal 16 hours (Continuous angle measurement every 30 seconds) / 10 hours(typical)
Measuring Times	Approx.12000 times
Other	
Display (High resolution backlight black and white display with contrast adjustment/ Graphics)	280 X 160 pixels, Character: 6 lines X 25 characters
Keyboard	2 sides Alphanumeric backlit crystal keyboard
Plummet	
Type	Laser point, step brightness adjustment
Centering Accuracy	1 mm at 1.5m instrument height
Environmental	
Operating Temperature	-20°C-50°C
Storage Temperature	-40°C-70°C
Dust&water proof (IEC60529 Standard)/ Humidity	IP65,95% non-condensing

Reminding:

*1. Standard deviation based on ISO 17123-3.
 *2. Calculated by Kodak Gray Card white side (90% reflective), exact distance depends on measuring object, observation and environment conditions.
 *3. Good condition, no haze, visibility about 40km, moderate sunlight.
 *4. Battery life specification at 25°C. It might be shorter in low temperature or if the battery is old.



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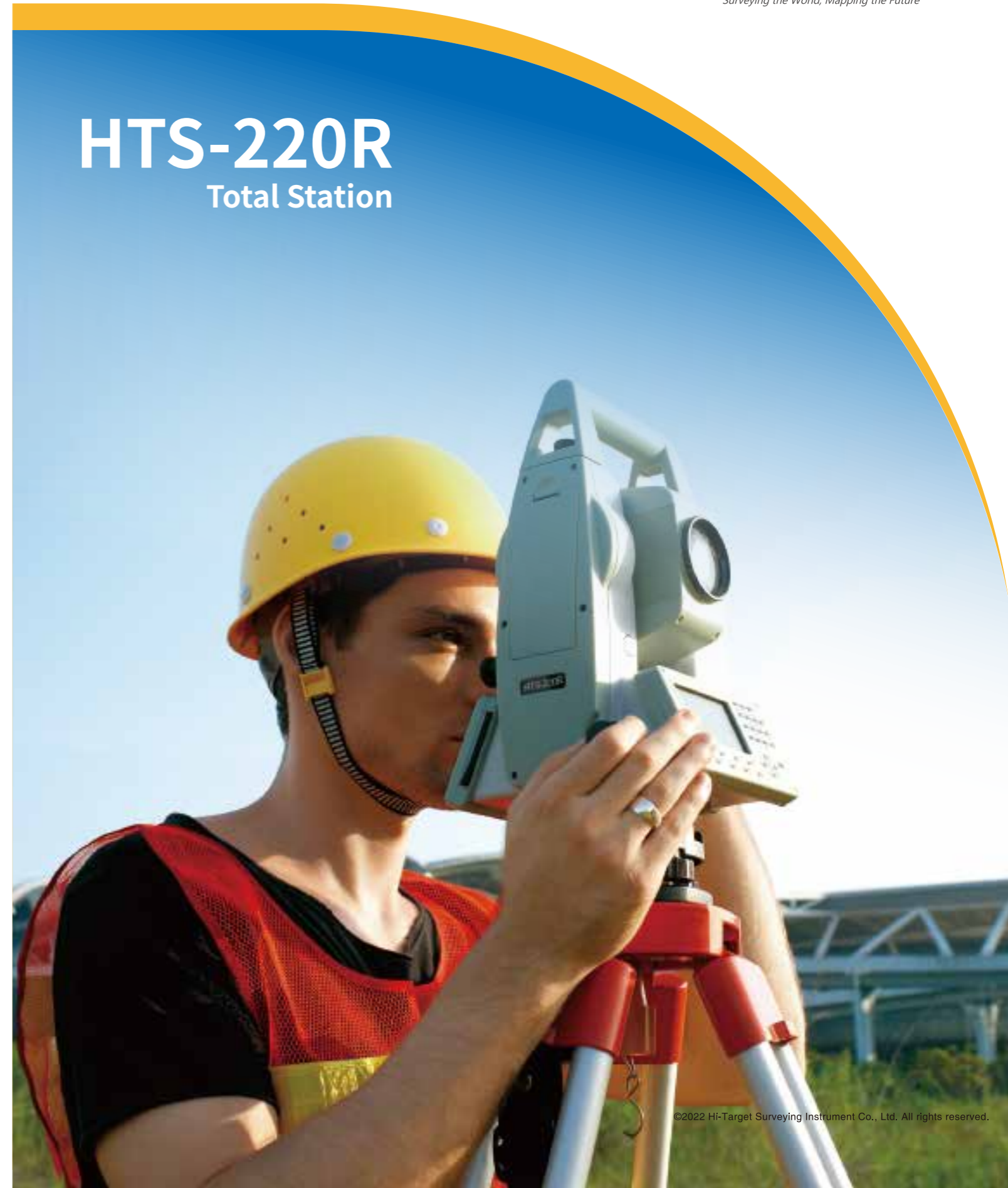
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HTS-220R

Total Station



HTS-220R

HTS-220R angle measurement use absolute encoding digital angle measurement system, distance measuring system use integrated circuit control board range. Complete measurement, calculation, display, storage by microcomputer technology. It can simultaneously display horizontal angle, vertical angle, slope distance, horizontal distance and geodetic difference. It can be performed to a variety of patterns measurement such as angle and slope.

Point is optional under the laser
Convenient directive function for station, making it easy to occupied station.

Bluetooth
The Bluetooth wireless technology makes HTS-220R accessible to any data collector for real-time communication. Support SurvCE, FieldGenius and Hi-Survey connection, and support secondary development.

Reflectorless 600m
This series total station have the function of laser ranging. Use the function of the reflector less can accomplish the survey task commendably for the target that can't be access favorably.

Data Transfer Software
The proprietary HI-TARGET data transfer software supports different type of output data format, which can be used in AutoCAD or other brands' post processing software.

Dual-axis Compensation
The HTS-220R is configured with advanced dual-axis compensator for auto error elimination and auto accuracy compensation.

Data Storage
Diversified data transfer options such as SD card, Micro USB interface.

Backlight
The display and keyboard with backlight for working in the dark.

High-performance MCU
The STM32 MCU based on ARM Cortex™-M processor enables the HTS-220R has extra high processing speed and low-power consumption.

Function

- Stake out
- Offset
- MLM
- REM
- Repeated
- Resection
- Road
- Area
- Projection
- Coord.Z

Inst. Para. Setting--
1. Para. show
2. VO/Adjustment
3. Instr. const
4. Contrast Adj.
5. X tilt Adj.
6. Y tilt Adj.
7. Adjust tilt zero

TS Check
Check: Check Angle (Check) Error Source Data (Restore Source Data)

TS Data
Check: Check Angle (Check) Error Source Data (Restore Source Data)

- TS-check.Failure checking.
- Built-in multi-function calibration software.
- Hyperterminal for the TS firmware upgrade.

Application

- Control Surveys
- Construction
- Mining
- Tunnel
- Railway
- Road