SPECIFICATIONS

Angle Measuremen	it
Measurement Method	dAbsolute Encoding
Minimum Readout	1"/5"/10"
	(0.3mgon/1.5mgon/3mgon) adjustable
Accuracy ¹	2"
Distance Measuren	nent (HTS-220 with Reflector)
Single Prism	3000m (9,842ft.) under good condition ³
Three Prisms	6000m (19,685ft.) under good condition ³
Reflective Sheet	800m (2,624 ft.)
Accuracy	2 mm +2ppm
Measuring Time (Fine	e/Quick/Tracking)1.5s/1s/ 0.5s
Distance Measuren	nent (HTS-220R Reflectorless)
Reflectorless ² Range.	
Single Prism	>7500m (24,606ft.)
Accuracy	3mm+2ppm
Measuring Time	1.59
Telescope	
Magnification	30X
Field of View	1°30′ (2.7m at 100m)
Minimum Focusing D	istance1.5m
	Illuminated
Compensator	
SystemSing	gle-axis liquid tilt sensor/Dual-axis (optional
Working Range	±3′
Setting Accuracy	1"
Communication	
Bluetooth	
Interface	Standard RS232, SD card ⁴ , Micro USE
Internal Data Memor	yApprox. 20,000 Points
Data Format	ASCI
Operation	

Display.....High resolution backlight black and white display with

Kevboard		Character: 6 lines x 25 character nanumeric backlit crystal keyboar
,	·	, ,
Laser Plu		
Туре		Laser point, 4 brightness leve
	-	ment / Optical plummet (optional
Centering	Accuracy	1 mm at 1.5m instrument heigh
Power Su	pply	
Battery Ty	pe	Rechargeable Li-ion batter
Voltage/Ca	pacity	BT10: 7.4V (DC) / 3000mA
Operating	Time With BT10	Optimal 16 hours
(Continu	uous angle measuren	ment every 30 seconds) /10 hour
		(typical
Measuring	Times	Approx. 12000 time
Weight		
-	cl. Batterv&Tribrach)	Approx. 5.5kg (12.1lb.
	,,	
Environm	ental	
Operating	Temperature	20°C \sim + 50°C (-4°F to + 122°F
Storage Te	mperature	-40°C ~ + 70°C (-40°F to + 158°I
Dust&Wate	er Proof (IEC60529 S	Standard)/HumidityIP65
		95%, non-condensin
	riation based on ISO 17123-3	
		(90% reflective), exact distance depends on
	oject, observation and environ	
	on: no haze, visibility about 4 tension up to 32GB.	okm, moderate sunlight,
	·	ly angel measurement mode.
wew battery	at 25 c, 24 Hours conditions	iy anger measurement mode.

Descriptions and specifications are subject to change without notice





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..Real-time Operating System

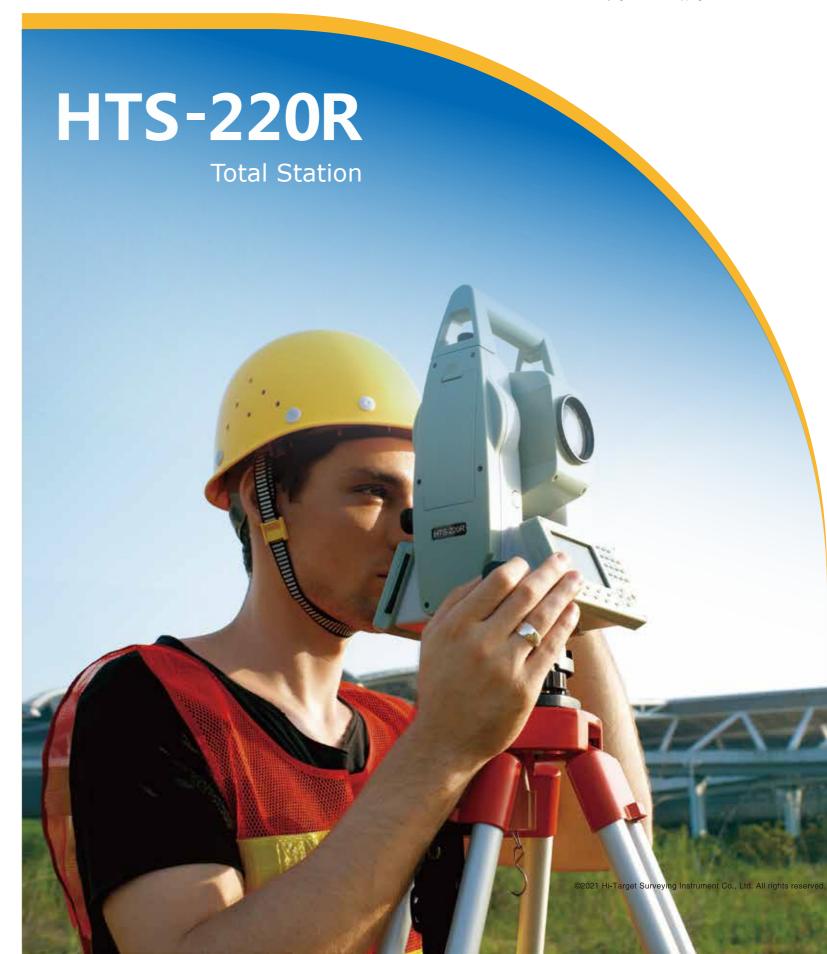
Hi-Target Surveying Instrument Co. Ltd

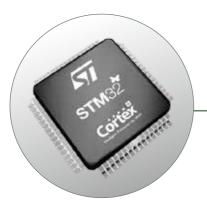
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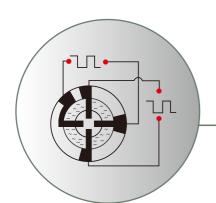
High-performance MCU



Absolute Encoding



Calibration Software



Dual-axis Compensation





Bluetooth



Diagonal Eyepiece



Data Transfer Software



Backlight

① **Dual-axis Compensation**

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

② Absolute Encoding

The absolute encoding disk ensures high accuracy, efficiency and stable performance. Initialization is needless but to measure the angle immediately as the HTS-220R is turned on. The azimuth information won't be missed even the HTS-220R is power-off unexpectedly.

3 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.

4 Bluetooth

The Bluetooth wireless technology makes HTS-220R accessible to any data collector for real-time communication. The third party field software such as Carlson SurvCE is fully compatible with the HTS-220R.

5 Data Storage

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

6 Backlight

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

7 Diagonal Eyepiece

Support diagonal eyepiece for observations at steep line of sight.

8 Calibration Software

The proprietary HI-TARGET Calibration software is accessible for real-time diagnosis to ensure trouble-free operation.

9 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.