

TAKAYA

Radar Sensor Product Evaluation Kit SI24/

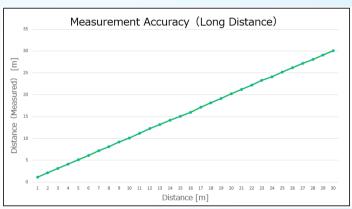


ST24ZS2A4442H

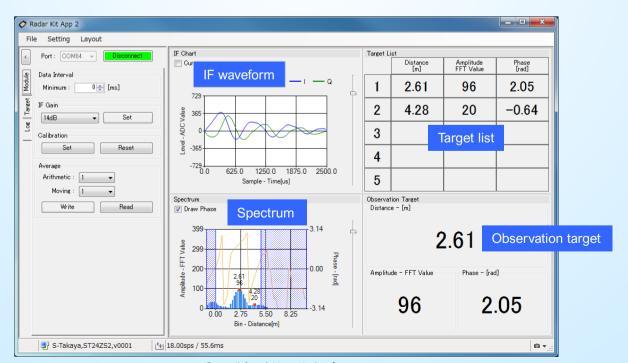
- UART-USB converter board included
- Software for checking operation included
- Radio wave absorber for calibration included
- With Technical Standards Conformity Certification
- They are certified with radio regulatory in Japan



Short Distance Measurement Accuracy (Gain: +14dB)



Long Distance Measurement Accuracy (Gain: +40dB, RCS: 20dBsm)



Graphical User Interface



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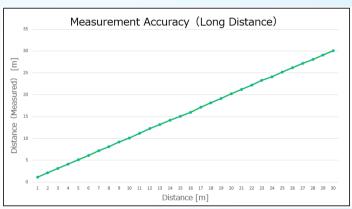


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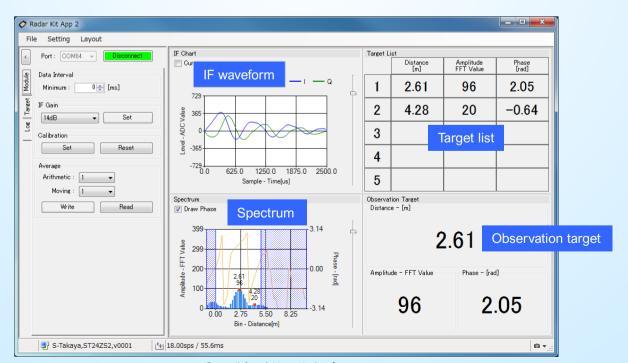
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Specifications

Size	mm	$50(W) \times 82(D) \times 28.8(H)$		
Interface		UART(USB) (1)		
Supply Voltage	V	5.0 (1)		
Current Consumption(Typ)	mA	340		
RF Frequency	GHz	24.05 - 24.25		
Modulation Bandwidth	MHz	24.05 - 24.25		
Detection Range	m	0.1 - 30 (2)		
Range Measurement Accuracy	m	±0.1 (2)		
Chirp Time	ms	2.5		

⁽¹⁾ PC connection by the attached UART-USB conversion, works with bus power.

Antenna Variations

Type Name		ST24ZS2	ST24ZS2	ST24ZS2	ST24ZS2
		A4222H	A4242H	A4422H	A4442H
Antenna Type TX RX	Patch Patch	4 x 2 2 x 2	4 x 2 4 x 2	4 x 4 2 x 2	4 x 4 4 x 2
Transmitter Antenna Half-power Angle (Typ) Azimuth deg Elevation deg		±20	±20	±10	±10
		±10	±10	±10	±10
Receive Antenna Half-power Angle (Typ) Azimuth deg Elevation deg		±20	±20	±20	±20
		±20	±10	±20	±10
Polarization Direction(3)		Horizontal	Horizontal	Horizontal	Horizontal
Output Power(Typ)	dBm EIRP	+21	+21	+24.5	+24.5

⁽³⁾ When the sensor product is installed horizontally(landscape).

When using vertical polarization, install the sensor product vertically.

- •Please contact the a sales company listed on the right or the following. for inquiries about this catalog.
- •This specification is subject to change without prior notice.
- •The display may differ from the actual display.
- •Measured values are those under our test conditions.

Therefore, in actual measurement, the measured value differs depending on the situation in the measurement environment.

S-TAKAYA ELECTRONICS INDUSTRY CO.,LTD

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https://www.s-takaya.co.jp

Macnica TecStar Company, Inc.

https://www.macnica.co.jp/business/semiconductor/manufacturers/infineon/

NEXTY Electronics Corporation

http://www.nexty-ele.com/nat/

TOKYO ELECTRON DEVICE LIMITED

https://www.teldevice.co.jp/

MARUBUN CORPORATION

https://www.marubun.co.jp

⁽²⁾ Based on our measurement environment.