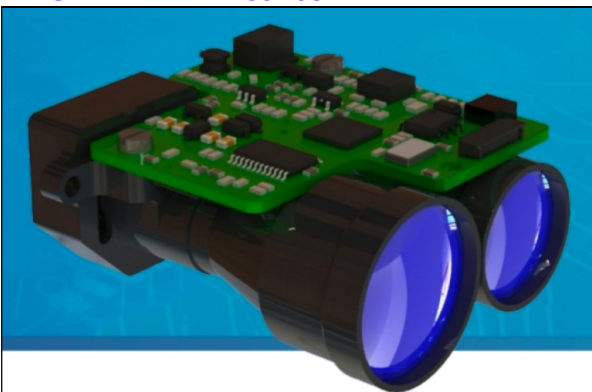


STDY Series Laser Rangefinders



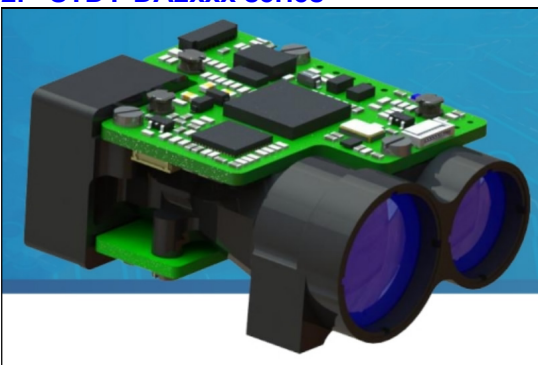
STDY-DA and STDY-YA series laser rangefinder is compact in design and easy to integrate. The working light source is 905nm and 1550nm semiconductor laser diode. The features are long service life and low power consumption. And it is widely used in the airborne pod, vehicle turntable, handheld observation instrument, altimeter, telescope, gun sight, gun sight project and other photoelectric equipment, to meet aviation, ship, vehicle, police, railway, electric power, communication, geology, construction, fire protection, forestry, outdoor applications and other applications.

1. STDY-DA1xxx series



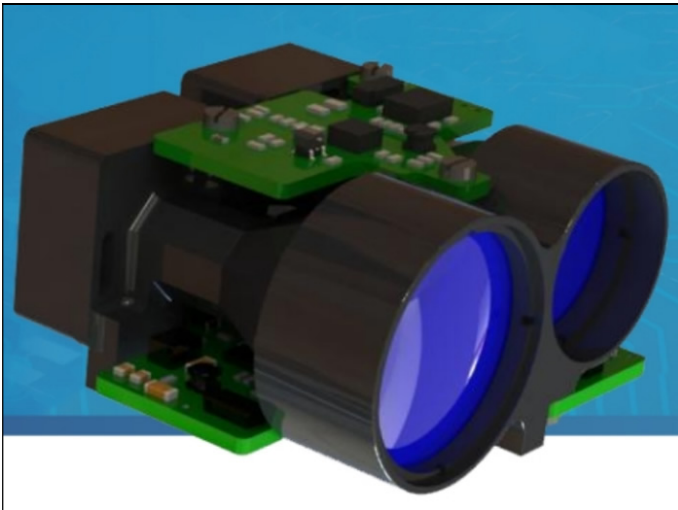
Model	STDY-DA1000	STDY-DA1500
Wavelength	905nm	
Range	20m~1000m	20m~1500m
Ranging accuracy	±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Acceptance aperture	17mm	
Connector	TTL	
Supply voltage	5V±0.5V	
Power consumption	≤2W	
Dimension	45mmx44mmx21mm	
Weight	≤35g	
Operating temperature	-40°C~+55°C	

2. STDY-DA2xxx series



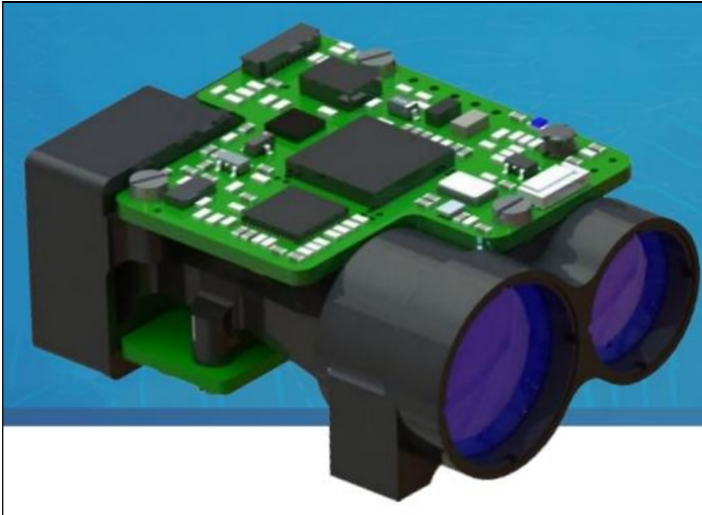
Model	STDY-DA2000	STDY-DA2500
Wavelength	905nm	
Range	20m~2000m	30m~2500m
Ranging accuracy	≤±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Acceptance aperture	17mm	
Connector	TTL	
Supply voltage	5V±0.5V	
Power consumption	≤2W	
Dimension	50.5mmx37mmx22mm	
Weight	≤45g	
Operating temperature	-40℃~+55℃	

3. STDY-DA3xxx series



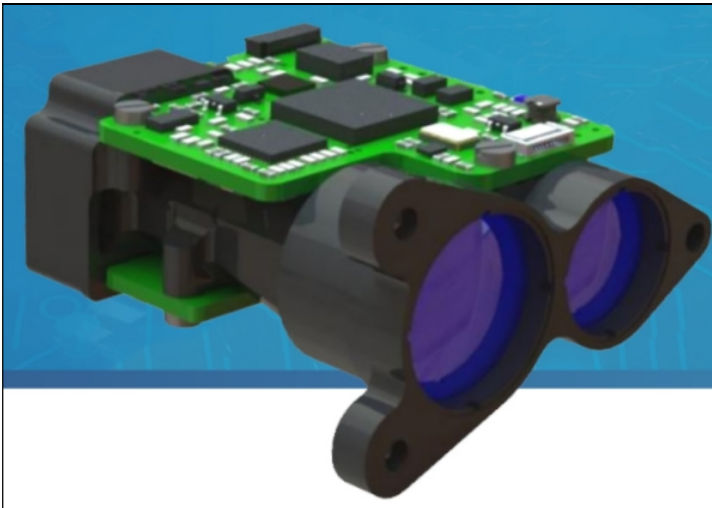
Model	STDY-DA3000	STDY-DA3500
Wavelength	905nm	
Range	20m~3000m	30m~3500m
Ranging accuracy	≤±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Acceptance aperture	24mm	
Connector	TTL	
Supply voltage	5V±0.5V	
Power consumption	≤2W	
Dimension	50mmx49.5mmx29mm	
Weight	≤65g	
Operating temperature	-40℃~+55℃	

4. STDY-YA2xxx series



Model	STDY-YA2000	STDY-YA2500
Wavelength	1550nm	
Range	30m~2000m	30m~2500m
Ranging accuracy	±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Acceptance aperture	17mm	
Connector	TTL	
Supply voltage	5V±0.5V	
Power consumption	≤3W	
Dimension	51mmx37mmx22mm	
Weight	≤45g	
Operating temperature	-40°C~+55°C	

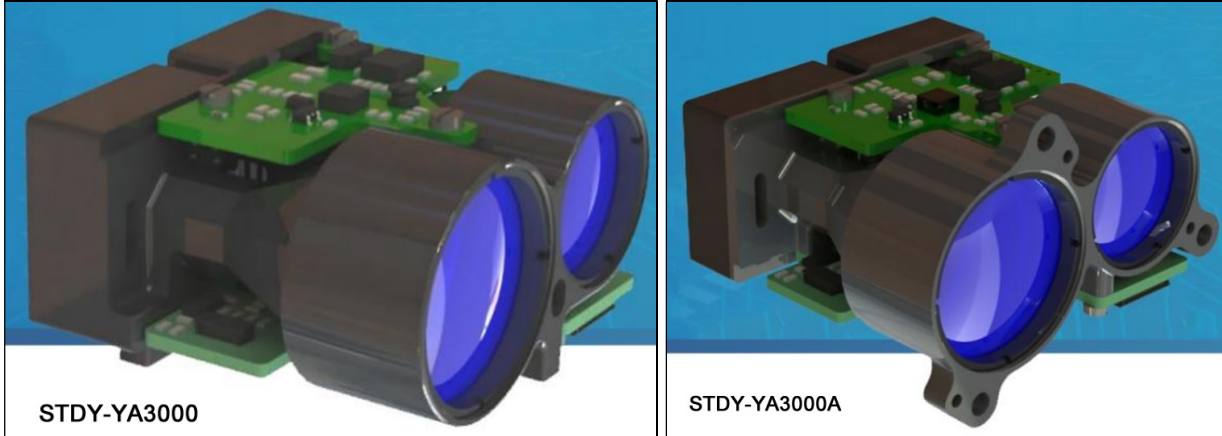
5. STDY-YA2xxxA series



Model	STDY-YA2000A	STDY-YA2500A
Wavelength	1550nm	
Range	30m~2000m	30m~2500m
Ranging accuracy	±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Acceptance aperture	17mm	
Connector	TTL	

Supply voltage	5V±0.5V
Power consumption	≤3W
Dimension	50.5mmx45.5mmx29mm
Weight	≤45g
Operating temperature	-40℃~+55℃

6. STDY-YA3000 and STDY-YA3000A

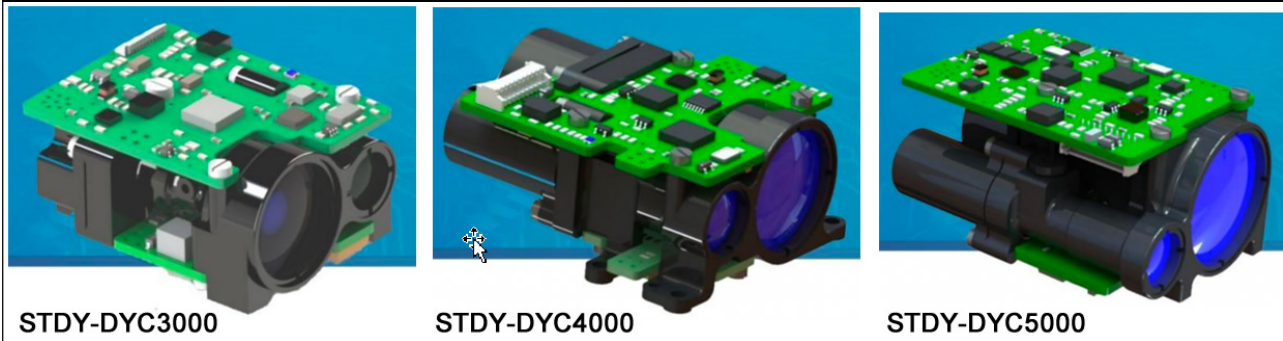


Model	STDY-YA3000	STDY-YA3000A
Wavelength	1550nm	
Range	30m-3000m	
Ranging accuracy	≤±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Acceptance aperture	24mm	
Connector	TTL	
Supply voltage	5V±0.5V	
Power consumption	≤3W	
Dimension	51mmx50mmx29mm	51mmx55mmx40mm
Weight	≤65g	
Operating temperature	-40℃~+55℃	

STDY-DYC Series Small & Medium-sized Laser Rangefinder

STDY-DYC series of small and medium-sized laser rangefinders are compact, easy to install and operate. The working light source is a human eye safe band solid state laser. The features are long service life and low power consumption. It can provide deep customization according to different needs. And it is widely used in the airborne pod, vehicle turntable, handheld observation instrument, altimeter, telescope, gun sight, gun sight project and other photoelectric equipment, to meet aviation, ship, vehicle, police, railway, electric power, communication, geology, construction, fire protection, forestry, outdoor applications and other applications.

1. STDY-DYCx000 series



Model	STDY-DYC3000	STDY-DYC4000	STDY-DYC5000
Wavelength	1535nm	1535nm	1535nm
Range	15m~3000m	50m~4000m	50m~5000m
Ranging accuracy	≤±2m	≤±2m	≤±2m
Ranging frequency	≥1Hz	≥1Hz	≥1Hz
Accurate rate	≥98%	≥98%	≥98%
Divergence angle	≤0.65mrad	≤0.6mrad	≤0.7mrad
Acceptance aperture	18mm	21mm	25mm
Connector	TTL	RS422	RS422
Supply voltage	12V±2V	12V±2V	12V±2V
Power consumption	≤2W	≤3W	≤3W
Dimension	50mmx36mmx24mm	57mmx50mmx30mm	61mmx43mmx32mm
Weight	≤56g	≤75g	≤85g
Operating temperature	-40°C~+55°C	-40°C~+55°C	-40°C~+55°C



Model	STDY-DYC6000	STDY-DYC7000	STDY-DYC8000	STDY-DYC9000
Wavelength	1535nm	1535nm	1535nm	1535nm
Range	20m~6000m	20m~7000m	80m~8000m	80m~9000m
Ranging accuracy	≤±2m	≤±2m	≤±2m	≤±2m
Ranging frequency	≥1Hz	≥1Hz	≥1Hz	≥1Hz

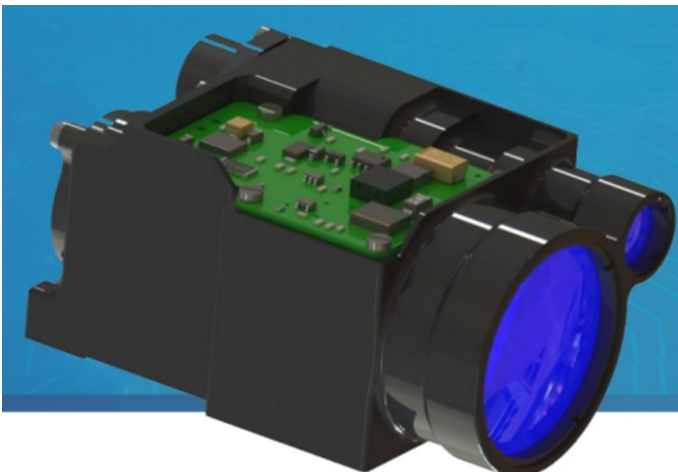
Accurate rate	≥98%	≥98%	≥98%	≥98%
Divergence angle	≤0.3mrad	≤0.3mrad	≤0.5mrad	≤0.5mrad
Acceptance aperture	34mm	34mm	42mm	42mm
Connector	RS422	RS422	RS422	RS422
Supply voltage	7.5V±1.5V	7.5V±1.5V	12V±2V	12V±2V
Power consumption	≤2W	≤2W	≤3W	≤3W
Dimension	80x59x45mm	80x59x45mm	86x66x45mm	86x66x45mm
Weight	≤120g	≤120g	≤145g	≤145g
Operating temperature	-40°C~+55°C	-40°C~+55°C	-40°C~+55°C	-40°C~+55°C

2. STDY-DYC000A series



Model	STDY-DYC6000A	STDY-DYC7000A
Wavelength	1535nm	
Range	20m~6000m	20m~7000m
Ranging accuracy	±2m	
Ranging frequency	1Hz	
Accurate rate	≥98%	
Divergence angle	≤0.3mrad	
Acceptance aperture	34mm	
Connector	TTL	
Supply voltage	7.5V±1.5V	
Power consumption	≤2W	
Dimension	81mmx57.5mmx41.5mm	
Weight	≤125g	
Operating temperature	-40°C~+55°C	

3. STDY-DYC6000B



Model	STDY-DYC6000B
Wavelength	1535nm
Range	50m~6000m
Ranging accuracy	$\leq \pm 2m$
Ranging frequency	1Hz
Accurate rate	$\geq 98\%$
Divergence angle	$\leq 0.7mrad$
Acceptance aperture	34mm
Connector	RS422
Supply voltage	28V \pm 6V
Power consumption	$\leq 3W$
Dimension	87mmx52mmx41mm
Weight	$\leq 195g$
Operating temperature	-40 $^{\circ}C$ ~+55 $^{\circ}C$

4. STDY-DYC100X and STDY-DYC100XA



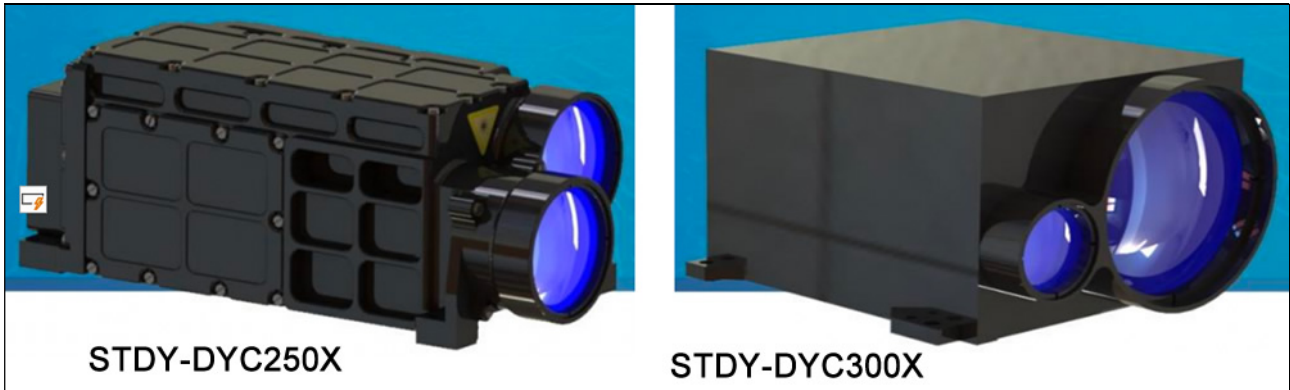
STDY-DYC100X

STDY-DYC100XA

Model	STDY-DYC100X	STDY-DYC100XA
Wavelength	1535nm	
Range	50m ~ 10000m	80m ~ 10000m
Ranging accuracy	$\leq \pm 2m$	
Ranging frequency	1Hz	
Accurate rate	$\geq 98\%$	
Divergence angle	$\leq 0.5mrad$	
Acceptance aperture	48mm	
Connector	RS422	
Supply voltage	28V \pm 6V	
Power consumption	$\leq 4W$	
Dimension	107mmx84mmx56mm	
Weight	$\leq 230g$	$\leq 290g$
Operating temperature	-40 $^{\circ}C$ ~+55 $^{\circ}C$	

5. STDY-DYC series medium range finder

STDY-DYC series of medium range finders are compact and easy to install and operate. The working light source is a human eye safe band solid state laser. The features of it are long service life and low power consumption. It can provide deep customization according to different needs. And it is widely used in the airborne pod, vehicle turntable, handheld observation instrument, altimeter, telescope, gun sight, gun sight project and other photoelectric equipment, to meet aviation, ship, vehicle, police, railway, electric power, communication, geology, construction, fire protection, forestry, outdoor applications and other applications.



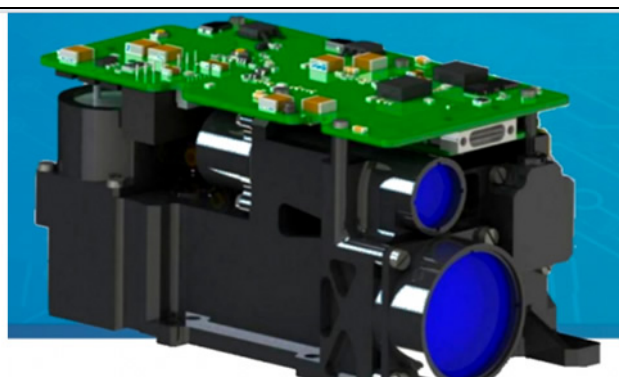
Model	STDY-DYC250X	STDY-DYC300X
Wavelength	1535nm	
Range	300m~25000m	300m~30000m
Ranging accuracy	$\leq \pm 5m$	
Ranging frequency	1Hz	
Accurate rate	$\geq 98\%$	
Divergence angle	$\leq 0.4mrad$	
Acceptance aperture	48mm	65mm
Connector	RS422	
Supply voltage	28V \pm 6V	
Power consumption	$\leq 10W$	
Dimension	245mmx113mmx85mm	133mmx122mmx76mm
Weight	$\leq 2100g$	$\leq 1000g$
Operating temperature	-40 $^{\circ}C$ ~+55 $^{\circ}C$	

STDY-DYB Series Small Laser Photometer

STDY-DYB series of small laser photometer is pumped by semiconductor, which can transmit laser pulse and receive laser echo to obtain the distance information of the measured target. It emits laser pulses in a specified precise coding or external synchronous way to provide semi-active guidance laser spots for laser guided weapons. The product is suitable for ground reconnaissance equipment, vehicle turret, ship turret, helicopter and UAV photoelectric load.



STDY-DYB025



STDY-DYB040



STDY-DYB060



STDY-DYB100

Model	STDY-DYB025	STDY-DYB040	STDY-DYB060	STDY-DYB100
Wavelength	1064nm	1064nm	1064nm	1064nm
Averag energy	≥25mJ	≥40mJ	≥60mJ	≥100mJ
Energy instability	≤10%	≤10%	≤10%	≤10%
Divergence angle	≤0.5mrad	≤0.4mrad	≤0.4mrad	≤0.25mrad
Optical axis stability	≤0.05mrad	≤0.05mrad	≤0.05mrad	≤0.05mrad
Range	100m~5000m	300m~5000m	300m~8000m	300m~20000m
Irradiation distance	≥2000m	≥4000m	≥5000m	≥13000m
Exposure frequency	20Hz	20Hz	20Hz	20Hz
Precise frequency code	45ms~56ms	45ms~56ms	45ms~56ms	45ms~56ms
Coding accuracy	±2.5us	±2.5us	±2.5us	±2.5us
Pulse width	15ns±5ns	15ns±5ns	15ns±5ns	15ns±5ns
Supply voltage	28V±6V	28V±6V	28V±6V	28V
Weight	≤450g	≤1000g	≤1500g	≤2800g
Dimension	91x6851.5mm	112x62x57mm	180x100x78mm	239x116x81mm
Operating temperature	-40℃~+55℃	-40℃~+55℃	-40℃~+55℃	-40℃~+55℃
Connector	RS422	RS422	RS422	RS422

STC Series Laser Rangefinders

Laser rangefinder has a long lifetime with low power consumption, easy to assemble and use. They are widely used in aircraft, railway, power sector, water conservancy industry, communication, environment, geology, architecture, agriculture, forestry, real estate, outdoor sports, etc. We use solid-state lasers or diode lasers with 905nm/1550nm laser wavelength. The ranging distance is 5m-1800m, 180m-8000m, 50m-15000m, etc.

1. STC-DYA-00 series

STC-DYA-00 is highly compact, easy to assemble and use. STC-DYA-00A uses the 905nm diode laser and STC-DYA-00B uses the 1550nm diode laser. They have a long lifetime with low power consumption.

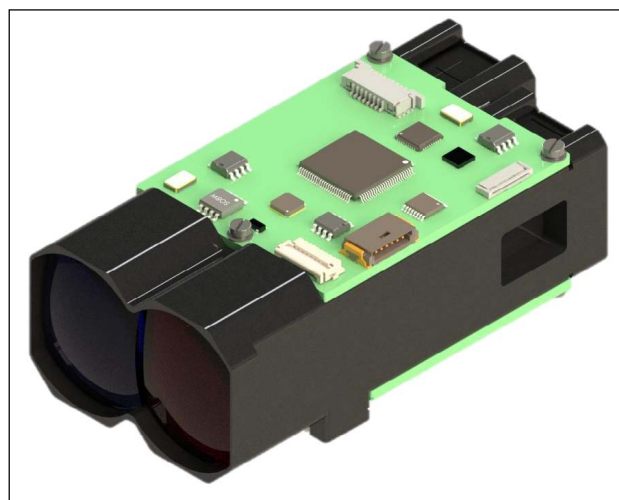


Model	STC-DYA-00A	STC-DYA-00B	Descriptions
Operating wavelength	905 nm	1550 nm	/
Range	5m~1800 m	30m~3000 m	See Note
Precision	±0.5m	±2m	Depend on Range
Frequency	1~10Hz	1~5Hz	/
Accuracy rate	≥98%	≥98%	/
Divergence angle	1.0 mrad	1.2 mrad	/
Aperture diameter	24mm	21mm	/
Communication interface	UART	UART	Optional: RS232/RS422
Input voltage	3.3V DC	3.3V DC	/
Power consumption	≤0.3W	≤3W	/
Standby power	≤0.15W	≤0.5W	/
Dimensions	50mmx50mmx26mm	60mmx45mmx25mm	
Weight, all components	≤50g	≤65g	
Heat dissipation method	Natural heat dissipation	/	/

2. STC-DYA-01(C)

STC-DYA-01(C) is highly compact, eye safe, easy to assemble and use. It uses the 1550nm diode laser and has a long lifetime with low power consumption.

Operating wavelength: 1550nm
 Range: 30m~4000m
 Precision: ±2m (depending on range)
 Frequency: 1~5Hz
 Accuracy rate: ≥98%
 Divergence angle: 1.2mrad
 Aperture diameter: 27mm
 Communication interface: RS232 (optional: RS422)
 Input voltage: 12V
 Power consumption: <3.5W
 Standby power: <0.35W
 Size: 92mmx50mmx34mm
 Weight: ≤120g
 Heat dissipation method: natural heat dissipation



3. STC-DYA-02(C)

STC-DYA-02(C) is highly compact, eye safe, easy to assemble and use. It uses the 1550nm diode laser and has a long lifetime with low power consumption.

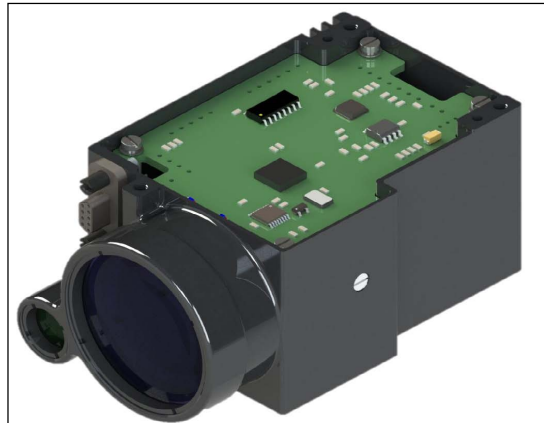
Operating wavelength: 1550nm
 Range: 30m~5000m
 Precision: $\pm 2m$ (depending on range)
 Frequency: 1~5Hz
 Accuracy rate: $\geq 98\%$
 Divergence angle: 1.0mrad
 Aperture diameter: 32mm
 Communication interface: RS232 (optional: RS422)
 Input voltage: 12V
 Power consumption: $< 3.5W$
 Standby power: $< 0.35W$
 Size: 99mm \times 62mm \times 45mm
 Weight: $\leq 170g$
 Heat dissipation method: natural heat dissipation



4. STC-DYC-01A

STC-DYC-01A is highly compact, eye safe, easy to assemble and use. It uses the solid-state laser and has a long lifetime with low power consumption.

Operating wavelength: 1535nm
 Range: 50m~8000m
 Precision: $\pm 0.5m$ (depending on range)
 Frequency: 1~5Hz
 Accuracy rate: $\geq 99\%$
 Divergence angle: 0.6mrad
 Aperture diameter: 33mm
 Communication interface: RS422
 Input voltage: 28V (optional: 12V)
 Power consumption: $\leq 4W$
 Standby power: $\leq 4W$
 Size: 86mm \times 51mm \times 40mm or customizable
 Weight: $\leq 200g$ or customizable
 Heat dissipation method: natural heat dissipation



5. STC-DYC-01B(1/2/3)

STC-DYC-01B is highly compact, eye safe, easy to assemble and use. It uses the solid-state laser and has a long lifetime with low power consumption.

Model	STC-DYC-01B1	STC-DYC-01B2	STC-DYC-01B3	Remark
Operating wavelength	1535nm	1535nm	1535nm	
Range	50m~10000m	50m~12000m	50m~14000m	
Precision	$\pm 1m$	$\pm 2m$	$\pm 2m$	Depend on Range
Frequency	1~5Hz	1~5Hz	1~5Hz	
Accuracy rate	$\geq 99\%$	$\geq 99\%$	$\geq 99\%$	
Divergence angle	0.8mrad	0.9mrad	0.6mrad	
Aperture diameter	48mm	48mm	48mm	
Communication interface	RS422	RS422	RS422	
Input voltage	28V	28V	28V	Optional: 12V

Power consumption	≤4W	≤4.2W	≤5W	
Standby power	≤4W	≤4.2W	≤5W	
Size	108mmx69mmx56mm	108mmx69mmx56mm	108mmx69mmx56mm	Customizable
Weight, all components	≤300g	≤300g	≤300g	Customizable
Heat dissipation method	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation	

6. STC-DYC-01C(1/2/3)

STC-DYC-01C is highly compact, eye safe, easy to assemble and use. It uses the solid-state laser and has a long lifetime with low power consumption.



Model	STC-DYC-01C1	STC-DYC-01C2	STC-DYC-01C3	
Operating wavelength	1535nm	1535nm	1535nm	
Range	50m~11000m	50m~13000m	50m~15000m	
Precision	±2m	±2m	±3m	Depend on Range
Frequency	1~5Hz	1~5Hz	1~5Hz	
Accuracy rate	≥99%	≥99%	≥99%	
Divergence angle	0.8mrad	0.9mrad	0.6mrad	
Aperture diameter	65mm	65mm	65mm	
Communication interface	RS422	RS422	RS422	
Input voltage	28V	28V	28V	Optional: 12V
Power consumption	≤4W	≤4.2W	≤5W	
Standby power	≤4W	≤4.2W	≤5W	
Size	120mmx83mmx75mm	120mmx83mmx75mm	120mmx83mmx75mm	Customizable
Weight	≤450g	≤450g	≤450g	Customizable
Heat dissipation method	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation	

STJ Series Laser Rangefinders

1. Diode Laser Rangefinder OEM Modules

The diode laser rangefinder module has the characteristics of small size, light weight, low power consumption, high performance, and easy integration. It is widely integrated in various equipment and optoelectronic systems.



- Semiconductor eye-safe laser.
- Accurate measurement and good repeatability.
- Small size and light weight.
- High reliability.

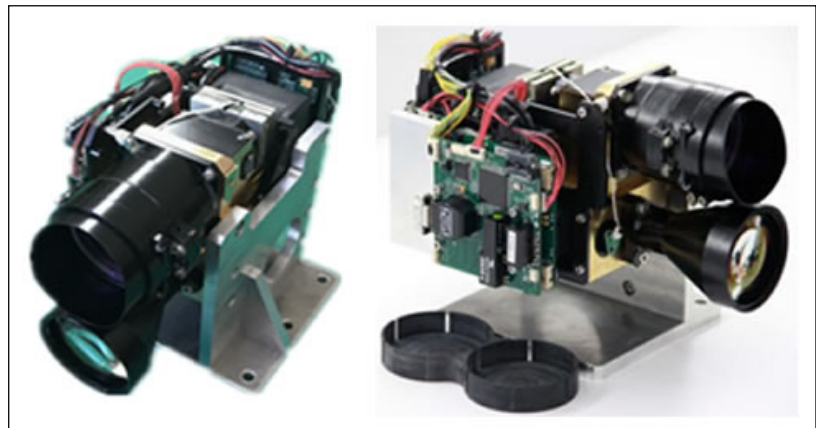
Technical specifications

Part number	STJ-RFS-032	STJ-RFS-028	STJ-RFS-6558
Wavelength	Eye-safe laser	Eye-safe laser	Eye-safe laser
Maximum range	Vehicle: 2km Human: 1km	Vehicle: 4.5km Big target: 8km	Vehicle: 4km Human: 2km
Minimum range	50m	100m	100m
Ranging accuracy	±5m	±5m	±5m
Repeat frequency	≥0.3Hz	≥0.3Hz	≥0.3Hz
Accurate rate	≥95%	≥95%	≥95%
Ranging logic	With the first and last target output function	With the first and last target output function	With the first and last target output function
Size(L×W×H)	≤65×45×30mm	≤120×100×52mm	≤110×100×50mm
Weight	≤60g	≤350g	≤350g
Operating temperature	-40℃~+60℃	-40℃~+60℃	-40℃~+60℃
Storage temperature	-55℃~+70℃	-55℃~+70℃	-55℃~+70℃

2. High-frequency Laser Rangefinder OEM Modules

STJ-RFS-376 high-frequency laser ranging module uses diode pumped laser as the light source, which can achieve high repetition frequency laser output, used to accurately and reliably measure the distance.

The main application areas include: shipboard, airborne, vehicle-mounted, shore-based photoelectric fire control system, photoelectric reconnaissance system, photoelectric monitoring system, photoelectric measurement system.



- Semiconductor pumped eye-safe laser.
- Repetition frequency can reach 20Hz.
- Long range and high reliability.

Technical Specifications

Part number	STJ-RFS-376
Wavelength	1.57 μ m
Maximum range	300m~20km (large targets under good weather conditions) 15km for 3*5m target
Ranging accuracy	\pm 5m
Repeat frequency	1~20Hz 1Hz working mode: continuous operation. 5Hz working mode: continuous working for 10 minutes, cooling for 1 minute. 20Hz working mode: continuous working for 1 minute and cooling for 1 minute.
Size	\leq 230 \times 150 \times 130mm
Weight	\leq 2.0Kg
Operating temperature	-40 $^{\circ}$ C~+60 $^{\circ}$ C
Highlight	High repetition frequency, long working distance, high measurement accuracy, high reliability and strong anti-interference ability
Application	Photoelectric reconnaissance system, photoelectric monitoring system, photoelectric measuring system

3. Erbium Glass Laser Ranging OEM Modules

STJ-RFS-6271 series erbium glass laser ranging modules use an erbium-doped glass laser as a light source, which can achieve a low-gain laser output and is used to accurately measure the target. They are mainly used for distance measurement of medium and long-range targets in the applications areas such as photoelectric reconnaissance system, photoelectric surveillance system.

- Eye-safe laser.
- Small size, light weight, high accuracy, high reliability and strong anti-interference ability



Technical Specifications

Part number	STJ-RFS-6271-20	STJ-RFS-6271-30	STJ-RFS-6271-40
Wavelength	1.54 μ m	1.54 μ m	1.54 μ m
Maximum range	\geq 12km	\geq 14km	\geq 16km
Ranging accuracy	\pm 2m	\pm 2m	\pm 2m
Repeat frequency	\geq 0.5Hz	\geq 0.5Hz	\geq 0.5Hz
Size	\leq 100 \times 50 \times 45mm	\leq 100 \times 61 \times 48mm	\leq 112 \times 72 \times 56mm
Weight	\leq 135g	\leq 160g	\leq 200g
Operating temperature	-40 $^{\circ}$ C~+60 $^{\circ}$ C		

4. Fiber Laser Rangefinder OEM Modules

STJ-JIR-603x series fiber laser ranging modules use rare earth-doped glass fiber as the gain medium to output eye-safe laser, which is small in size, light in weight, high in reliability and easy for system integration. Mainly used in photoelectric reconnaissance, photoelectric fire control, photoelectric monitoring, photoelectric measurement and other fields.

- Eye-safe laser.
- Small size and light weight.
- Fast heat dissipation and low loss.
- Strong environmental adaptability.



	STJ-RFS-6030A	STJ-RFS-6030B	STJ-RFS-6031	STJ-RFS-6032
Wavelength	1550±20nm	1550±20nm	1550±20nm	1550±20nm
Minimum range	50m	50m	50m	50m
Maximum range	≥15km (Ship: 20×70m)	≥3km (UAV: 0.3×0.3m)	≥8km (Vehicle: 2.3×2.3m)	≥6km (Vehicle: 2.3×2.3m)
Divergence angle	0.6mrad	0.3±0.1mrad	0.3±0.1mrad	0.3±0.1mrad
Repeat frequency	1Hz	5Hz	1Hz	1Hz
Ranging accuracy	±5m	±2m	±2m	±2m
Accurate rate	≥98%	≥98%	≥98%	≥98%
False alarm rate	≤2%	≤2%	≤2%	≤2%
Ranging logic	With the first and last target output function	With the first and last target output function	With the first and last target output function	With the first and last target output function
Size(L×W×H)	95×51×64mm	95×51×64mm	91×49×45mm	91×53×42mm
Weight	≤200g	≤200g	≤160g	≤150g
Operating temperature	-40℃~+60℃	-40℃~+60℃	-40℃~+60℃	-40℃~+60℃
Storage temperature	-50℃~+70℃	-50℃~+70℃	-50℃~+70℃	-50℃~+70℃

5. STJ-JIR-6244B Handheld Multifunctional Laser Rangefinder

STJ-JIR-6244B Multi-function Laser Rangefinder is mainly used for long distance observation and laser range finding, with the function of azimuth and pitch angle measurement, northing and GPS/Beidou positioning.



- Binocular observation
- Laser ranging
- Electronic compass
- GPS/Beidou positioning

- Data output

Device List

No.	Name	Qty	Remarks
1	Multi-functional laser range finder	1	1
2	Standby Battery	4	18650 rechargeable battery
3	Charger	1	
4	Communication cable	1	1

Technical Specifications:

(1) Laser Rangefinder

- Wavelength: 1570±20 nm
- Range capability: 100m~10km
- Ranging accuracy: ±5m
- Magnification: 6×
- Field of view: 6°

(2) Electronic compass

- Azimuth accuracy: 1°
- Elevation accuracy: 1°

(3) GPS: Locating accuracy: <10m

(4) Data output interface: RS422

(5) Power: Built-in four 18650 batteries or external DC 14.8V~16.8V power

(6) Working temperature: -40°C~60°C

(7) Size and Weight: ≤ 226mm(L)×206mm(W)×95mm(H), ≤ 1.8kg

6. STJ-JIR-6702 Portable Laser Irradiator

As a portable multi-functional laser target indication system, it can complete the target reconnaissance through TV, infrared, positioning, angle measurement, distance measurement and other multi-sensor, report the reconnaissance information through the information system, accept various control methods to start laser irradiation, send coded laser pulses to the target, and cooperate with semi-autonomous laser guidance weapons to complete the accurate target strike.

- Ranging and coding the target
- Visual observation of the target by uncooled infrared components or visible light (optional)
- It has external control function of upper computer.



Technical Specifications

(1) Laser ranging

- Working wavelength: 1.064 μm.

- Distance measurement capability: under the condition of 10km visibility, the distance of 4.6×2.3m tank is ≥ 5km. The distance to large target (5×5m) is ≥ 8km.

(2) Laser irradiation

- Working wavelength: 1.064 μm.
- Repetition frequency: 1Hz-25Hz optional.
- Short period irradiation: one irradiation duration ≥ 17s, interval ≤ 10s, continuous 8 cycles.
- Long period irradiation: one irradiation duration ≥ 47s, interval ≤ 40s, two consecutive cycles.

(3) Uncooled infrared range

The maximum detection distance of 4.6×2.3m target is ≥ 4500m, and the maximum recognition distance is ≥ 2500m.

(4) Weight: laser irradiator ≤ 6.0kg, thermal imager ≤ 2.0kg.

(5) Boundary dimension

- Laser irradiator: ≤ 330mm×300mm×130mm.
- Thermal imager: ≤ 340mm×160mm×160mm.

7. STLRF-6243F/6244F Laser Rangefinder

STLRF-6243F/6244F Laser Rangefinder is widely used for Patrol & reconnaissance; Engineering exploration; Surveying and mapping.



Features:

- High accuracy range finding
- Easy operation
- Simultaneous multiple targets measurement
- Small size and low light

Technical Specifications:

Model	STJIR-6243F	STJIR-6244F
Wavelength	1.55 μm (eye safe)	1.55μm (eye safe)
Aiming channel	CCD	CCD
Detector	APD	APD
Ranging capability (km)	Against big target: 21km Against 2.3*2.3 : 12km	Against big target: 12km Against 2.3*2.3 : 8km
Distance accuracy	±3m	±3m
Repetition rate	1Hz	1Hz
Divergence angle	≤0.3mrad	≤0.3mrad
Eyepiece adjust range	±3Diopter	±3Diopter
Impact	30g	30g
Photo/Video	Yes	Yes
Operation temperature	-30°C~60°C	-30°C~60°C
Power supply	12V battery	12V battery
Interface	RS422	RS422
Size	≤215×150×75 (mm)	≤200×150×65 (mm)
Weight	≤1.5Kg	≤1.0Kg

Positioning (Optional)	10m	10m
Angle measurement / height measurement (Optional)	0.3°/10m	0.3°/10m
Tripod (Optional)	High range:0.5~1.5m Bearing:5Kg	High range:0.5~1.5m Bearing:5Kg

8. STJ-IRC-36 Uncooled Portable & Long-Range Multifunction Binoculars

Based on years of actual combat application experience and continuous improvement, we have successfully developed the STJ-IRC-36, a portable, multifunctional, long-range binocular system that help operators observe the battlefield, and investigate target information under all weather conditions, observe shooting effects, etc., provides powerful information support for combat units.

24/7 Observation & Target Location:

- 2 observation channels: - Thermal
- Color TV

Multifunction:

- GPS positioning
- Take photo / Video recording
- Electronic compass
- Target ranging and location computation

Easy Operation:

- Ergonomic design
- Easy Operation

Multimedia & Connectivity:

- Image/ Video Storage
- Fast data Hand Over
- Standard & legacy interfaces



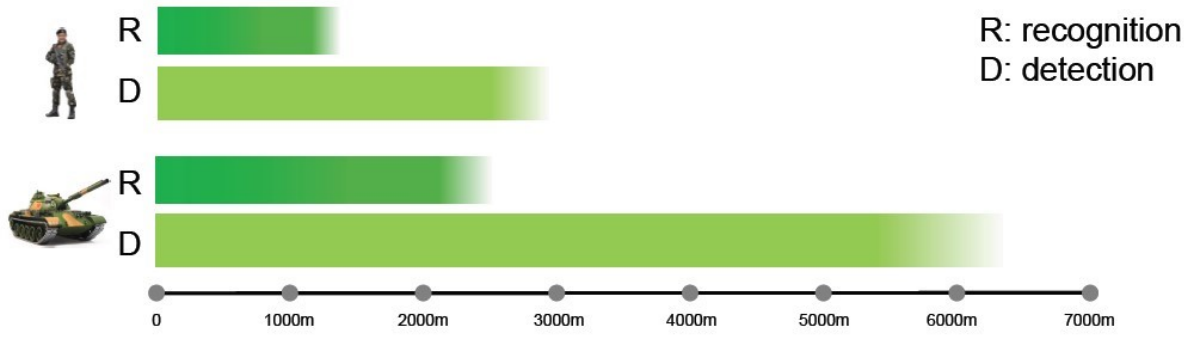
High Precision & HD:

- Ranging accuracy: $\pm 2m$
- Positioning accuracy: $\leq 10m$
- Orientation accuracy: $\leq 0.5^\circ$
- HD OLED Display

Technical Specifications:

Uncooled Thermal Channel	
Field of View	WFOV: 6°x4.5°
Sensor resolution	640x512
Color Day Channel	
WFOV	3°x2.2°
Resolution	1920 x 1080
Power	
Battery	Rechargeable
Autonomy	$\geq 6h$
Interfaces	
Video Output	PAL analog
Remote control	RS232
Weight	<1.8kg (including battery)
Other Features	GPS, Electronic Compass
Laser rangefinder	$\geq 8km$
Advanced Image Processing	Image Stabilization, Continuous eZoom x1-x4

STJ-IRC-36 Range



Color TV channel



Thermal channel