

# NEW PRODUCT SCANNING LASER RANGE FINDER

**UST-05LN**  
**UST-05LA**  
**UST-10LN**  
**UST-20LN**

## Features

- Wide detection range
- Fast response
- More flexible settings
- The smallest and the lightest of its kind

## Applications

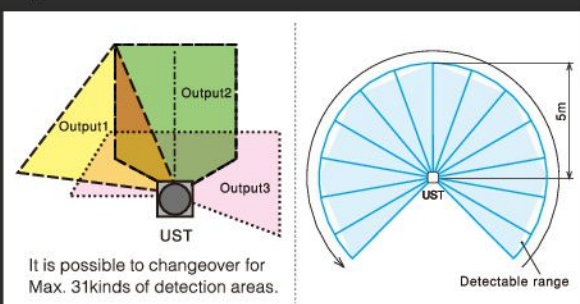
- Obstacle detection
- Presence detection



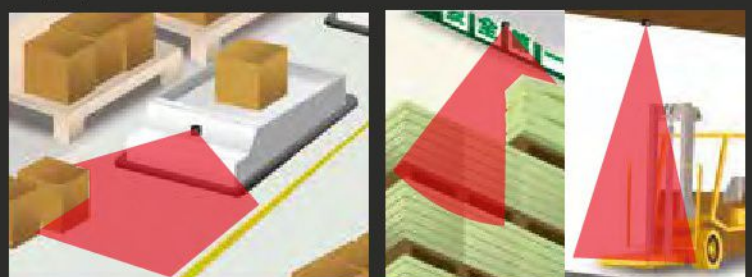
## Specifications

Part No.	UST-05LN / UST-05LA	UST-10LN	UST-20LN
Power supply	12VDC / 24VDC (10-30VDC ripple: 10% or less)		
Consumption current	150mA (DC24V) or less (400mA when switching on)		
Light source	Semiconductor laser (905nm), class 1 eye safe		
Distance	0.06-5m (White sheet) 0.06-2m (Black sheet with 10% reflectivity)	0.06-10m (White sheet) 0.06-4m (Black sheet with 10% reflectivity)	0.06-20m (White sheet) 0.06-8m (Black sheet with 10% reflectivity)
Distance accuracy	±40mm		
Repeatability	$\sigma < 20\text{mm}$		
Scanning angle	270°		
Scanning time	25ms per scan		
Angular resolution	0.5°	0.25°	
Start-up time	10sec or less		
Area pattern	31 patterns		
Output	Photo coupler / Open collector		
Response time	66ms or less		
Interface	USB / RS422 (only for UST-05LA data output)	USB / RS422 (for area setting)	
Indicator LED	Power (blue) : Blinking during start-up and malfunction		
Ambient temperature	-10 to 50 °C		
Protective structure	IP65		
Weight	130g (excluding cable)		

## System structure



## Applications



- Obstacle detection of AGVs
- Load shifting detection