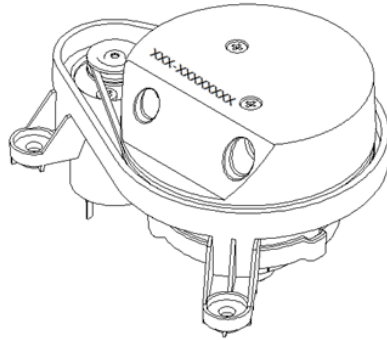


Scanning Laser Radar Specification

威凱自動化有限公司

Model No.
WK-LIDAR-0S



1 General Specifications:

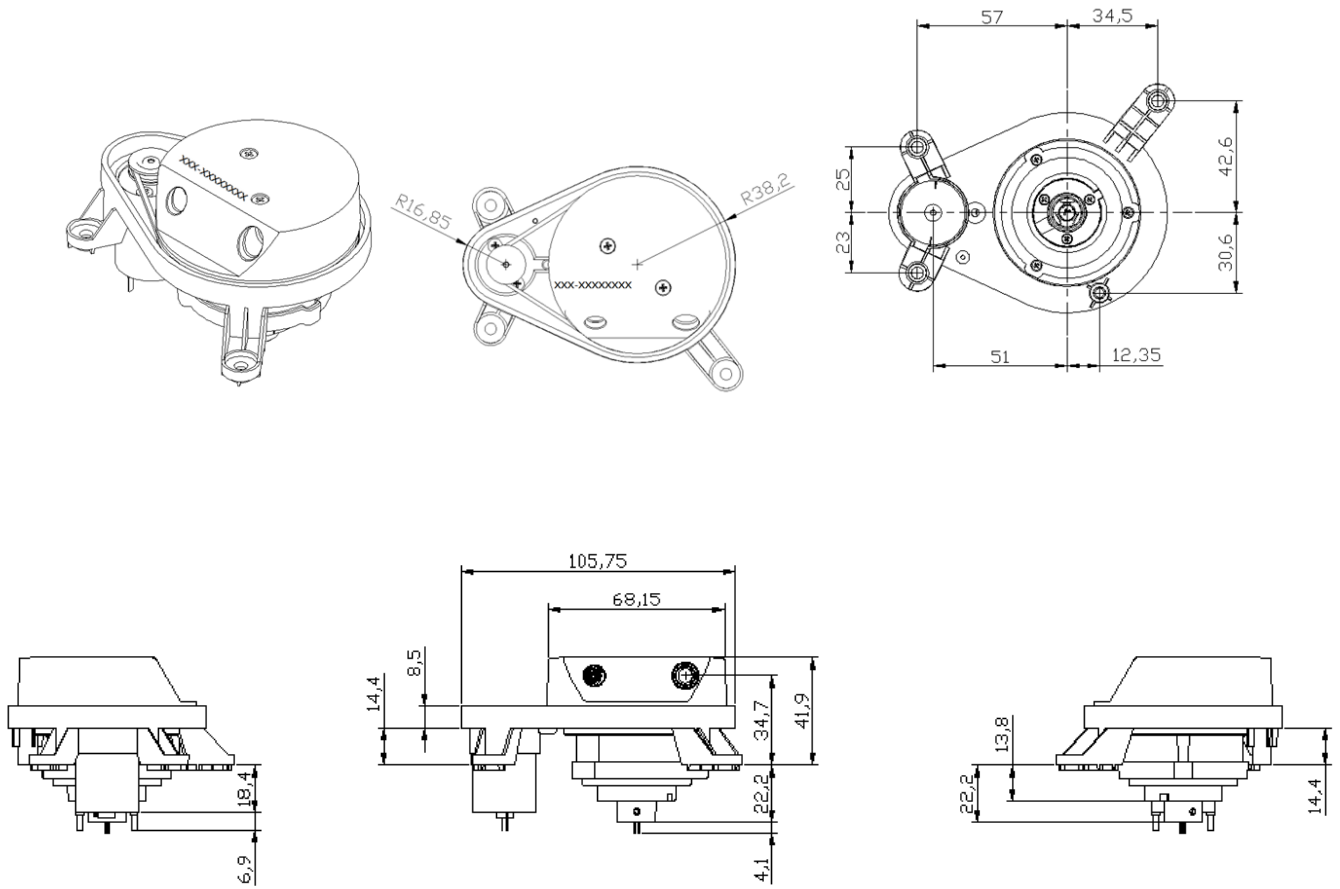
1.1 Absolute maximum rating

Item	Rating	Unit
Motor power source	3.3~5.5	V
PCBA power source	3.3	V
Operation Temperature	0 ~ 40	°C
Storage Temperature	-10 ~ 50	°C
Storage Humidity	85%	RH
Noise	55	dBA
Weight	200	g

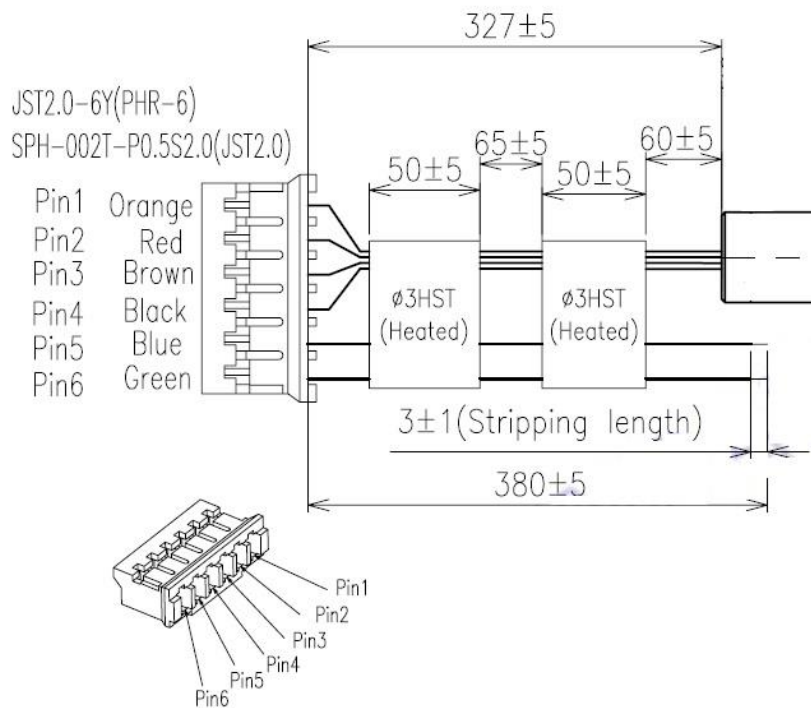
1.2 Electrical and optical characteristics (T_c=25 °C)

Item	Symbol	Min.	Typ.	Max	Unit	Condition
Laser wavelength	λ	840	845	850	nm	P _o =3mW
Laser output power	P _{out}		3±0.5		mW	V _{PCBA} =3.3V
Laser Beam Size			<2.5		cm	At 10m
Current consumption		500mA or less(800mA when start-up)				
Vertical Displacement of Scanning		+1.35 ~ +0.65				cm
Measuring area		150 to 6000mm(white paper) 150 to 3000mm(black paper)				
Distance Accuracy		3~6 M : ±1% of measurement. 0.15M~3M : ±0.5% of measurement.				
Repeatability		3~6 M : 2% of measurement. 0.15M~3M : 1% of measurement.				
Angular resolution		Step angle : approx. 1°(360°/360 steps)				
Scanning time		300~480rpm				
Interface		3.3V UART Baud Rate :230,400 bps				

2 Dimensions :



Unit : mm



Pin	Define	Description
1	3.3V	DC 3~3.5V
2	GND	
3	UART RX	3.3V TTL
4	UART TX	3.3V TTL
5	Motor +5V	3~6V (CW)
6	Motor GND	