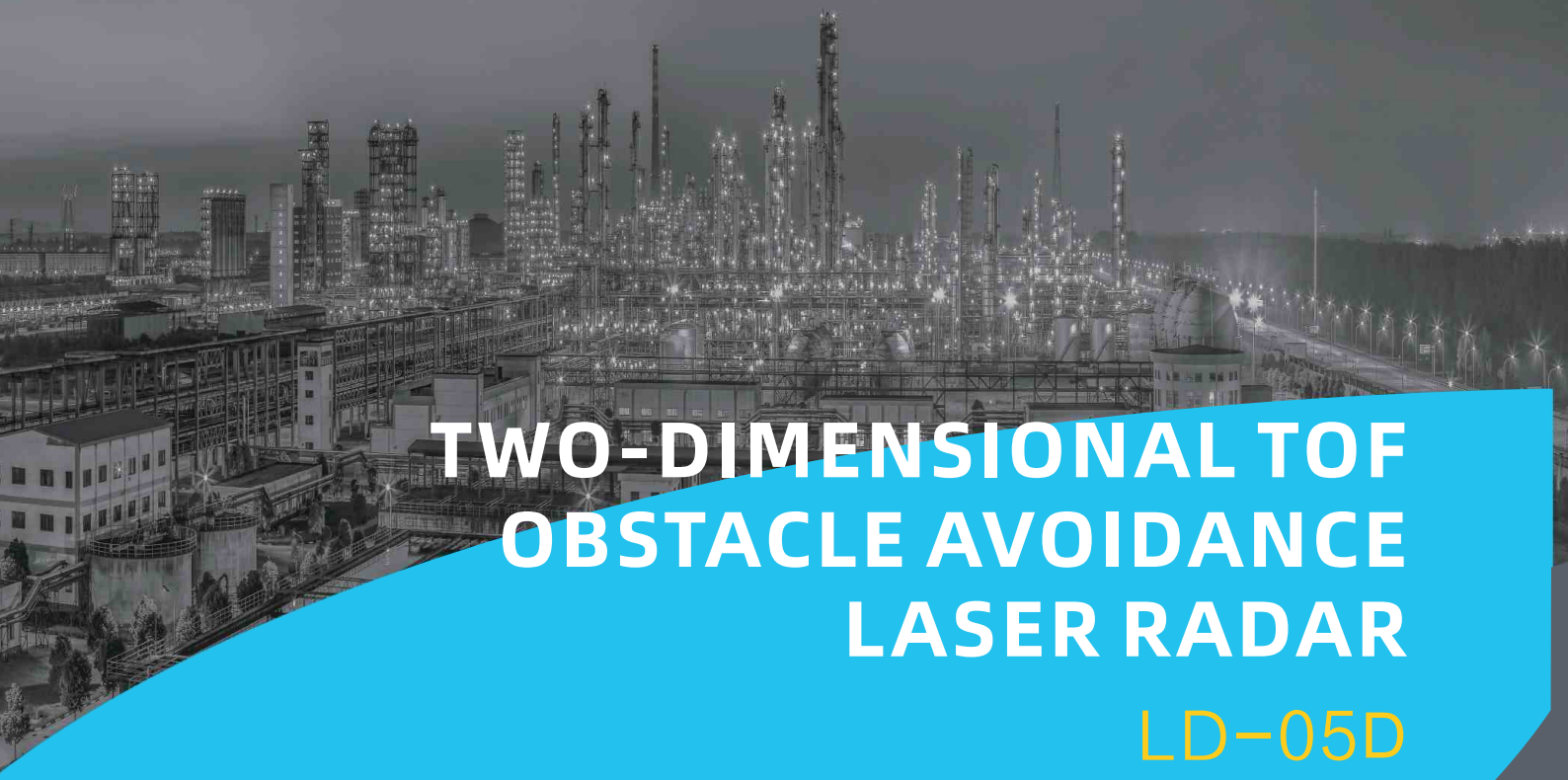
DADISICK®



TWO-DIMENSIONAL TOF OBSTACLE AVOIDANCE LASER RADAR

LD-05D



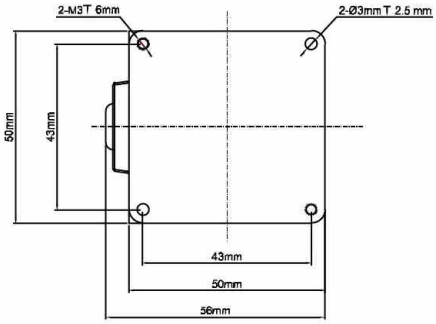
Product parameters

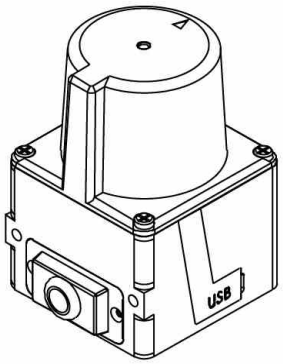
Basic Information	
product name	two-dimensional tof obstacle avoidance laser radar
Product number	LD-05D P(PNP)/LD-05D N(NPN)
Features	
Laser source	905 nm(class I)
Scan angle range	270°
scanning frequency	15Hz
Angle resolution	0.1°
Work area	0.05m~5m
Self-learning function	Automatic environment scanning, generating area
Mechanical/electronic parameters	
Electrical connections	DB15 MALE/SCATTER
Supply voltage	DC 9 V ~ 2 8 V
Power consumption	2W
Switch drive	DC 30 V 50 mA MAX
Shell color	Blue
Protection level	IP65
weight	150g, no cable
Size (length × width × height)	50mm×50mm×76mm
Performance	
Recognizable object shape	Almost any shape
Measurement error	±3mm
Number of regional groups	16 regional groups, each containing 3 regions
interface	
USB	Micro - USB
Input	GND / NCX 4
Switch output	NPNx3, device working status indication X1
Signal output hold time	100ms~10,000ms (adjustable) typical value 330ms
Response time	Status Indicators
Status Indicator	Status indication 1, area group indication 2
Environmental parameters	
Vibration resistant	10-55Hz, amplitude 0.75mm, XYZ three-axis, 2 hours per axis; 50-200hz, 196m/s2 (20G), scanning speed 2min/cycle, XYZ three-axis, 2 hours per axis
Working temperature	−10℃~+55℃
Storage temperature range	−30℃~+75℃
Resistance to ambient light	>15,000ux

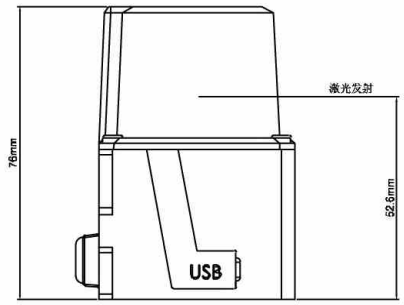


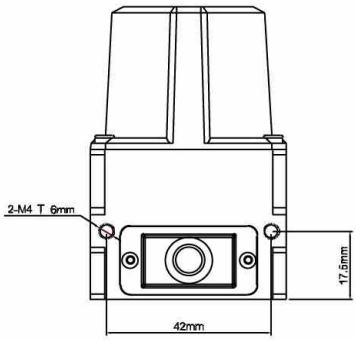

DADISICK®
USB

Dimension


2-M3T 6mm
2-Ø3mm T 2.5 mm
50mm
43mm
43mm
50mm
56mm

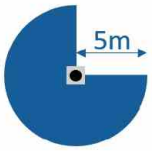

USB


激光发射
76mm
52.6mm
USB


2-M4 T 6mm
17.5mm
42mm



Features



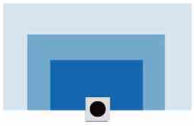
5m distance
270°angle



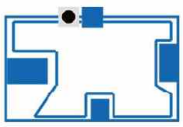
Multi-zone monitoring
Monitoring area independent setting



External device driver
The switch provides
DC 30V 50mA driving force



16 regional group settings
Quick configuration fast loading



Automatic learning
Learning based on field scenarios
Monitoring profile

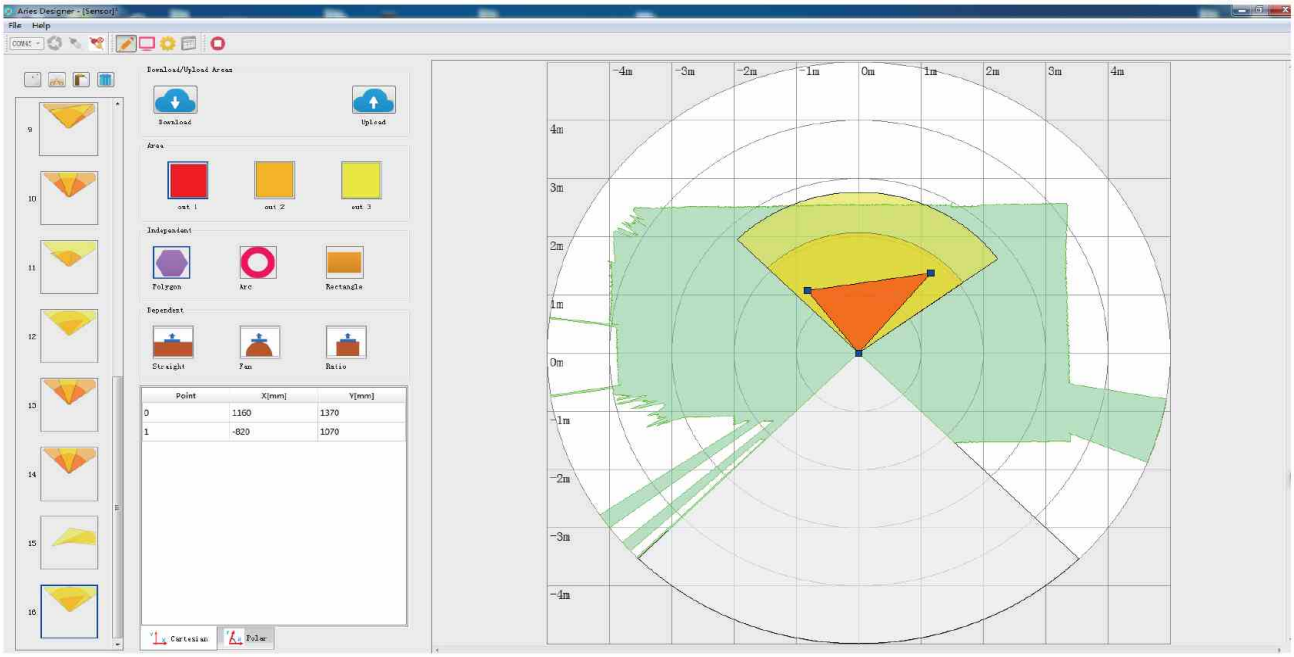


Suspend function,
take into account production
Built-in shutdown and restart function
Cooperate with production line to
move countermeasures



IP65
Dustproof and waterproof
Applicable in harsh industrial environments

Point Cloud



Application



AGV obstacle avoidance



Factory area operation safety protection



Service robot autonomous obstacle avoidance



Unmanned near field obstacle avoidance



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