

Distance measurement					
Number of distance measurement points	576				
FOV	HFOV 35.5±2°, VFOV 28.2±2°				
Distance resolution	0.25mm				
Mode	Distance measurement range (m)				
20M	0.3 - 20				
30MSTD	0.3 - 30				
30M15F	0.3 - 30				
30M30F	0.3 - 30				
40M	0.3 - 40				
Mode	Frame rate (fps)				
20M	30				
30MSTD	30				
30M15F	15				
30M30F	30				
40M	15				
Distance (m)	Accuracy (Indoor) [mm]				
	※Object used for performance measurement is a flat plate with an infrared (940 nm) reflectance of 10%/50%/80%				
	20M	30M STD	30M 15F	30M 30F	40M
0.5	+30/-80	+50/-150	+50/-150	+50/-150	+70/-230
1	+30/-80	+50/-150	+50/-150	+50/-150	+70/-230
2	+30/-30	+10/-150	+10/-150	+10/-150	+25/-230
5	+10/-60	+20/-100	+20/-100	+20/-100	+40/-140
10	+10/-25	+20/-30	+20/-40	+20/-40	+45/-55
15	+10/-25	+20/-40	+20/-40	+20/-40	+60/-55
20	+10/-25	+20/-40	+20/-40	+20/-40	+60/-55
25	-	+20/-40	+20/-40	+20/-40	+60/-55
30	-	+20/-40	+20/-40	+20/-40	+60/-55
35	-	-	-	-	+60/-55

40	-	-	-	-	+60/- 55
Distance (m)	Precision (Indoor) [mm]				
	※Object used for performance measurement is a flat plate with an infrared (940 nm) reflectance of 10%/50%/80%				
	20M	30M STD	30M 15F	30M 30F	40M
0.5	4	4	4	4	4
1	4	4	4	4	4
2	4	4	4	4	4
5	2.5	2.5	2.5	2.5	2.5
10	5	5	5	5	5
15	7.5	7.5	7.5	7.5	7.5
20	10	10	10	10	10
25	-	12.5	12.5	12.5	12.5
30	-	15	15	15	15
35	-	-	-	-	17.5
40	-	-	-	-	20
Distance (m)	Accuracy (Outdoor) [mm]				
	※Object used for performance measurement is a flat plate with an infrared (940 nm) reflectance of 10%/50%/80%				
	20M	30M STD	30M 15F	30M 30F	40M
0.5	+35/- 120	+25/- 170	+25/- 170	+25/- 170	+60/- 230
1	+35/- 120	+25/- 170	+25/- 170	+25/- 170	+60/- 230
2	+35/- 100	+25/- 170	+25/- 170	+25/- 170	+30/- 230
5	+35/- 100	+30/- 100	+30/- 100	+30/- 100	+50/- 120
10	+35/- 70	+30/- 100	+100/- 110	+100/- 110	+50/- 120
15	+45/- 70	+30/- 100	+100/- 110	+100/- 110	+50/- 120
20	+45/- 70	+30/- 100	+100/- 110	+100/- 110	+120/- 120
25	-	+30/- 100	+100/- 110	+100/- 110	+120/- 120
30	-	+30/- 100	+100/- 110	+100/- 110	+120/- 120
35	-	-	-	-	+120/- 120

40	-	-	-	-	+120/- 120
Distance (m)	Precision (Outdoor) [mm]				
	※Object used for performance measurement is a flat plate with an infrared (940 nm) reflectance of 10%/50%/80%				
	20M	30M STD	30M 15F	30M 30F	40M
0.5	25	10	10	10	15
1	25	10	10	10	20
2	25	10	10	10	20
5	10	10	10	10	20
10	20	25	20	20	40
15	30	37.5	30	30	60
20	40	50	40	40	80
25	-	62.5	50	50	100
30	-	75	60	60	120
35	-	-	-	-	140
40	-	-	-	-	160
Light source element	8x24pix VCSEL laser diodes				
Laser wavelength	940±6nm				
Output data format					
Depth Data	Point Cloud or Point Cloud Z Axis only				
Intensity Image	UVC YUV2				

Interface and power information	
Interface	USB 3.2Gen1 , USB2.0 , UART , Trigger IN/OUT , TS CLK/PRESET
External connector	USB TYPE-C UFP for HOST USB TYPE-C DFP for Device (internal HUB)
IO Standard	Non-Isolated 3.3V (UART,Trigger,TS)
Power supply	USB TYPE-C 5V or 8 pin JST GH connector 12-24V
Power consumption	Max 2.5W

Housing	
External dimensions	W29 x H29 x D31 mm (excl. protrusions)
Mass	Approx. 46g Approx. 1.6 Oz

Standard and certifications	
Laser class	Class 1 product Eye Safety Class 1 IEC/EN 60825-1:2014(Ed.3)
Standard	EN55035 ClassA , FCC ClassA
Guaranteed performance temperature	0 °C ~ +40 °C ※1
Operating temperature	-5 °C ~ +45 °C
Storage temperature	-30 °C ~ +60 °C
Operating humidity	20% ~ 80% (no condensation)
Storage humidity	20% ~ 80% (no condensation)
Vibration resistance	0~500Hz 3 directions (XYZ) , 1 H ea.
Shock resistance	200G 7~8ms
MTBF	approx. 10.9 years
O.S. support	Windows11 64bit Ubuntu 24.04 Jetson Orin AGX Jetpack 6.2.1 Raspberry Pi OS 1 Oct 2025
Software support	SDK for AS-DT1 (sample program and Python library)

Included items and accessories	
Included items	Safety Regulations
Accessories (option)	VCT-333I (tripod adaptor)

Note	
※1	temperature sensor reading does not exceed 70 °C (158 °F)

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