

TEST REPORT



REPORT NO.:CTNT2411260130201R

Product Name: Coherent Doppler wind lidar

Model No. :

H3D3-12K

Applicant:

EMGO-TECH TECHNOLOGY CO., LTD.

Test Procedure: Entrustment Test



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TEST REPORT

EN IEC 62368-1

Audio/video, information and communication technology

equipment - Part 1: Safety requirements

Report Number:	CTNT2411260130201R
Date of issue:	Feb.26, 2025
	Shenzhen Zhongwei Testing Technology Co., Ltd. Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang
Name of Testing Laboratory	Street, Longgang District, Shenzhen, Guangdong, China
preparing the Report	Tel: 0755-28680489
	E-mail: admin@ctnt-cert.com
	Web: www.ctnt-cert.com
Applicant's name:	EMGO-TECH TECHNOLOGY CO., LTD.
Address:	201.BUILDING 2.NO.388, YONGNAN ROAD, XIANGZHOU DISTRICT. ZHUHAI CITY. GUANGDONG PROVINCEPR.CHINA.
Manufacturer's name	EMGO-TECH TECHNOLOGY CO., LTD.
Address:	201.BUILDING 2.NO.388, YONGNAN ROAD, XIANGZHOU DISTRICT. ZHUHAI CITY. GUANGDONG PROVINCEPR.CHINA.
Test specification:	
Standard:	EN IEC 62368-1: 2024 + A11:2024
Test procedure:	Entrustment Test
Non-standard test method:	N/A
TRF template used	IECEE OD-2020-F1:2023, Ed.1.6
Test Report Form No:	IEC62368_1F
Test Report Form(s) Originator :	UL Solutions (US)
Master TRF	Dated 2023-08-18
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If this Test Report Form is used by nor	n-IECEE members, the IECEE/IEC logo and the reference to the CB
Scheme procedure shall be removed.	

This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CTNT Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the CTNT, responsible for this Test Report.

Remark:

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CTNIT®		XV		Si la
	Pa	ge 3 of 67	Report No. C	TNT2411260130201R
Test item description:	Coheren	t Doppler wind lidar	le la compañía de la compañía	
Trade Mark(s):	N/A		L.S.	
Model/Type reference:	H3D3-12	2K	ON CONTRACT OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE	
Ratings:	230V~ 5	0Hz 260W		
Test item particulars:				
Product group	:	end product] built-in com	ponent
Classification of use by		Ordinary persor	n 🗌 Chil	dren likely present
0		Instructed perso	on	
		Skilled person		¢'
Supply connection	:	AC mains		mains
	S.	Powered by swi	itch mode pow	ver supply
	2			3
Supply tolerance		+20%/-15%	S	
		□ + %/ -	%	
S. S		X None		Ċ
Supply connection – type	:	pluggable equip	oment type A	-
18 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -		non-de	etachable supp	oly cord
		appliar	nce coupler	
			plug-in	
			etachable supr	ly cord
		appliar	nce coupler	
		🗌 permanent conr	nection	
		mating connect	or other: D	C supply
Considered current rating of protective	e device	□ A;	¥	— (
0	:	Location: L	_ building	L equipment
Fauinment mobility			hand-held	☐ transportable
		direct plug-in	stationary	for building-in
		wall/ceiling-moun	ited 🗌 SRME	E/rack-mounted
		☐ other:		
Overvoltage category (OVC)				
Class of equipment	al.			
oluss of equipment	$\langle \rangle$	Not classified		
Special installation location		🖾 N/A 🛛] restricted ad	ccess area
		outdoor location	n	
Pollution degree (PD)	:	U PD 1	⊠ PD 2	LI PD 3
Manufacturer's specified Tma	:	⊠ 60 °C □ O	utdoor: minim	um °C
IP protection class	:] IP	🗆 N/A
Power systems	:		⊐ וד -	L-L
		I not AC mains		S
Altitude during operation (m)		☐ 2000 m or less	⊠ 4500 n	n
Altitude of test laboratory (m)		☐ 2000 m or less	⊠ 100 m	
Mass of equipment (kg)	<u>.</u> :	≪100Kg		
	<u> </u>		//////////////////////////////////////	

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Test item particulars:	
Classification of installation and use	Stationary
Supply Connection:	AC mains
Protection against electric shock:	Class I equipment
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing	
Date of receipt of test item	Nov.26, 2024
Date (s) of performance of tests	Dec.06, 2024 - Feb.08, 2025

General remarks:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

Other important notes:

1. If you have any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receipt of the report.

2. Entrusting test only responsible for the incoming samples, and the test results are used by the entrusting party to understand the quality of the samples.

3. This test report is invalid without the "test stamp".

4. This report may not be reproduced in part without permission to avoid ambiguous interpretation.

5. Test items with "*" are unauthorized items.

6. The remaining samples under test must be collected within three months of receipt of the inspection report. If the samples are not collected within the time limit, the laboratory will handle them by selves.

Company name: Shenzhen Zhongwei Testing Technology Co., Ltd. Address: Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street, Longgang District, Shenzhen, Guangdong, China

Tel: 086-755-28680489

Email: admin@ctnt-cert.com

Website: www.ctnt-cert.com

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Coherent Doppler wind lidar Model: H3D3-12K Rated input: 230V~ 50Hz 260W Manufacturer: EMGO-TECH TECHNOLOGY CO.,LTD.

MADE IN CHINA

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General product information:

- This equipment is a Coherent Doppler wind lidar.

- The three-dimensional wind lidar (H3D3-12K) adopts a pulsed laser coherent detection system and an allfibre coherent optical path structure, using a narrow-linewidth pulsed laser as the light source. It realizes the measurement of radial wind vectors by detecting the Doppler shift information of aerosol scattering echo signals of the laser.

- The equipment is designed for use in environments with temperatures ranging from -40°C to 60°C

- Main parameters of the product

Wavelength	1550nm±10nm		
Radial vertical detection distance	30~3000m		
Radial horizontal detection distance	30~12000m		
Visual wind speed range	-60m/s to +60m/s		
Azimuth range	0° to 360°		
Range of elevation angle	-5° to 185°		
Mode	Low Mold, Medium Mold, High Mold		
Range resolution	Adjustable from 9.6m to 150m		
Minimum data refresh time (Wind profile data in wind profile mode)	≦5s		
Laser emission pulse power	≥300 µ J		
Balance detector response bandwidth	≥200Mhz		

Summary of testing:

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods.

According to the test of EN IEC 62368-1: 2024 + A11:2024

This product is complied with the applicable requirements of standards.

Testing procedure and testing location

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Laboratory name	÷	Shenzhen Zhongwei Testing Technology Co., Ltd.
Testing location/address:	:	Room 106, 1/F, No. 109, Lijia Road, Henggang Community, Henggang Street, Longgang District, Shenzhen, Guangdong, China
Testing procedure	:	
Tested By (Test Engineer)	:	George Tian George Tian
Reviewed By (Supervisor)	:	Jackie Chen. Jackie. Chen.
Approved By (Chief Engineer)	:	Flight Lee
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