

# Report on the EMC Testing of:

Brigade Electronics Group Plc  
AHD Backsense® Radar ECU  
Model: BS-ECU-H43



In accordance with ISO 13766-1 and ISO 13766-2

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NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
	General Manager	Authorised Signatory	17 February 2025

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**EXECUTIVE SUMMARY**  
A sample of this product was tested and found to be compliant with ISO 13766-1: 2018 & ISO 13766-2: 2018 for the tests detailed in section 1.3.

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# 1 Report Summary

## 1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	17 February 2025

**Table 1**

## 1.2 Introduction

Applicant	Brigade Electronics Group PLC
Manufacturer	Brigade Electronics Group PLC
Model Number(s)	BS-ECU-H43, BS-OSD-H43, BS-ECU-H43, BS-OSD-HXXXXXXXX, BS-ECU-HXXXXXXXX (Where “X” can represent any character for any associated variant. Bespoke models can have reduced electronic component population and cabling, software changes, customized setting or differing equipment connections. Brigade confirms that the sample submitted for test is the worst-case. The EMC performance of any associated variant will be equivalent or superior to this worst-case sample).
Declared Variant(s)	
Serial Number(s)	170924524
Number of Samples Tested	One
Test Specification/Issue/Date	ISO 13766-1: 2018-04 (1st Edition) ISO 13766-2: 2018-04 (1st Edition)
Order Number	PLCPO003347
Date	10-October-2024
Date of Receipt of EUT	14-October-2024 & 14-January-2025
Start of Test	17-October-2024
Finish of Test	21-January-2025
Name of Engineer(s)	Ravi Kishore Darshanam Dushyanth Mollati Subodh Karale
Related Document(s)	CISPR 25: 2008 ISO 7637-2: 2011 ISO 10605: 2008 ISO 11452-2: 2004 ISO 11452-4: 2013 ISO 16750-2: 2012



### 1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with ISO 13766-1 and ISO 13766-2 are shown below.

Section	Specification Clause	Test Description	Result	Modification State	Comments/Base Standard
Configuration and Mode: DC Powered, Mode: Radar Active					
2.1	Section 4.5 and Annex D	Radiated Broadband Electromagnetic Emissions, Electric/Electronic Subassemblies 30MHz to 1000MHz	Pass	0	CISPR 25
	Section 4.6 and Annex E	Radiated Narrowband Electromagnetic Emissions, Electric/Electronic Subassemblies 30MHz to 1000MHz			
2.2	Section 4.7 (ISO 13766-1) Section 5.3, Table 3 (ISO 13766-2)	Immunity of ESA to radiated electromagnetic fields from off-board sources, Bulk Current Injection (BCI) Test Method	Pass	1	ISO 11452-4
2.3	Section 4.7 (ISO 13766-1) Section 5.3, Table 3 (ISO 13766-2)	Electromagnetic Radiation (AM & PM), Absorber Lined Chamber Test Method	Pass	1	ISO 11452-2
2.4	Section 4.9.4, Table 1	Immunity of Electrical/Electronic Sub-assemblies to Transient Disturbances Conducted Along Supply Lines	Pass	1	ISO 7637-2, ISO 16750
2.5	Section 4.8 (ISO 13766-1) Section 5.3.4 (ISO 13766-2)	Immunity of ESA exposed to ESD	Pass	1	ISO 10605:2008

**Table 2**