



## CERTIFICATE OF CONSTANCY OF PERFORMANCE

**0407-CPR-946 (IG-307-2014)**

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

### **VARIABLE MESSAGE TRAFFIC SIGNS**

identified as specified in the annex

placed on the market by

**CHAINZONE TECHNOLOGY (FOSHAN) CO., LTD.**

**Chainzone Tech. Industrial Park, Taishan Bei Rd., Sanshan Avenue,  
Nanhai District, Foshan City, Guangdong Province, 528200, China (PRC)**

and produced in the manufacturing plants

**Chainzone Tech. Industrial Park, Taishan Bei Rd., Sanshan Avenue,  
Nanhai District, Foshan City, Guangdong Province, 528200, China (PRC)**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance at system 1 and the performances described in annex ZA of the standard

**EN 12966-1:2005 + A1:2009**

are applied and that

**the above-mentioned product fulfils all the prescribed requirements**

Bellaria-Igea Marina - Italy, 12 March 2019

Revision No. 10<sup>(1)</sup>

(1) Editorial update, adding of new product type and updating of product tables

CPD Department Technical Manager  
(Dott. Ing. Giuseppe Persano Adorno)

Chief Executive Officer

This document is made up of 1 page and 1 annex (in a bilingual format (Italian and English), in case of dispute the only valid version is the Italian one), was first issued on 18 November 2014 and will remain valid as long as the harmonised standard remains valid or the manufacturing conditions in the plant or the factory production control itself are not modified significantly. The original of this document consists of an electronic document digitally signed pursuant to the applicable Italian Legislation.

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EC NOTIFIED BODY No. 0407

<b>PRODUCT: VMS containing VMS20-RGB-A modules</b>				
<b>Applied standard</b>	<b>Laboratory test</b>		<b>Test report number</b>	<b>Performance value</b>
EN 60598-1	Impact test		356651/11887/CPR	Pass
EN 60068-2-64	Vibration test		356652/11888/CPR	Pass
EN ISO 9227	Corrosion test		356649/11885/CPR	Pass
EN 60529	Degrees of protection provided by enclosures (IP-class)		356648/11884/CPR	P3 (IP56)
EN 60068-2-14	Change of temperature test		357210/11934/CPR	T3
			357209/11933/CPR	T2
			356650/11886/CPR	T1
EN 60068-2-30	Damp heat cycling test			Pass
EN 12966-1	Optical performance (luminance)	Luminance	356629/11883/CPR 356630	Red, green, blue, yellow and white: L3, L3(*), L3(T)
		Luminance ratio		Red, green, blue, yellow and white: R3
		Beam width		Red, green, blue, yellow and white: B1, B2, B3, B4, B5, B6, B7
		Uniformity		Pass
	Chromaticity co-ordinates	Colour		Red, green, blue, yellow and white: C2
EN 12899-1	Assessment of calculation report referring to a 8000 mm × 2100 mm VMS (25 (W) × 13 (H) matrix of VMS20-RGB-A modules) supported by a portal gantry		358800/12086/CPR	PAF1, WL9, DSL4, PL3, TDB1