

Check list for meeting the
Safety Objectives of Electromagnetic Compatibility (EMC) Directive 2014/30/EU and RoHS
Directive 2011/65/EU and also the Statutory Instrument 2016 No. 1091, The
Electromagnetic Compatibility Regulations 2016 and Statutory Instrument 2012
No. 3032, The Restriction of the Use of Certain Hazardous Substances in Electric and
Electronic Equipment Regulations 2012

1. There is a box which is intended to form a record of how the EMC/RoHS product satisfies the requirements.

The verification Box is to record how compliance is achieved:-

for example DOC if you used document examination (drawings, calculations)
 INSP if you used physical inspection
 TEST if you executed or commissioned a physical test
 OBS if you simply observed it
 REVIEW from informed discussion and information available

NOTES AND GUIDANCE ARE TAKEN FROM "GUIDE FOR THE EMC DIRECTIVE 2014/30/EU, DECEMBER 2018"

1. RoHS Rationale (Directive 2011/65/EU) (S. I. 2012 No. 3032) Complying with BS EN IEC 63000:2018

The Directive 2011/65/EU and S.I.2012 No 3032 lay down rules on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of waste EEE

Verification	Doc. Ref.	Comments
DOC + REVIEW	Manual + BOM list + ECB Statement+ Precision Graphics Statement	The InstantCryo product has been assembled in an ISO 9001 approved company in America who are also a RoHS certified Assembly Company. All materials purchased, as shown on included BOM list, are all RoHS compliant and care has been taken to ensure that only compliant components are used during the assembly and build. There is documentation from the assembly company assuring that the products supplied are fully RoHS compliant
Result:	Date: July 2021	Examined by: Dom Samways

2. EMC Rationale (Directive 2014/30/EU) (S.I.2016 No.1091)

Essential requirements

1. General requirements

Equipment shall be so designed and manufactured, having regard to the state of the art, as to ensure that:

- (a) the electromagnetic disturbance generated does not exceed the level above which radio and telecommunications equipment or other equipment cannot operate as intended:

- (b) it has a level of immunity to the electromagnetic disturbance to be expected in its intended use which allows it to operate without unacceptable degradation of its intended use.

From the Guide for the EMCD (Directive 2014/30/EU) Annex 2 Notes on some practices

- a) Manufacturers may decide in some cases not to perform some tests if they can satisfy themselves by other means (e.g. design precautions, comparison with similar apparatus) with sufficient certitude that the requirements of the standard will be met, if the tests were executed. They may also decide under their sole responsibility not to perform some tests if the inherent physical characteristics of the apparatus are such that negligible disturbances will occur in a given frequency band. In such cases, explanations have to be added to the technical documentation. These explanations should demonstrate on how essential requirements are met.
- b) Conforming to Annex 1 and Annex 2 of the 2014/30/EU Directive and Schedule 1 and Schedule 2 of the S.I. 2016 No 1091

Verification	Doc. Ref.	Comments
DOC + REVIEW	Manual + BOM List + ECB Statement+ Precision Graphics statements	<ol style="list-style-type: none"> 1. The ECB Design Manager has worked on similar/identical products which were tested and were compliant. 2. The Instant Cryo is assembled from CE approved bought out items in an ISO 9001 approved company 3. The assembly company has provided confirmation that their assembly work does not change the EMC of the CE approved bought out items at all 4. Ultra low power source used just 2 x 3.7V lithium ion batteries 5. The InstantCryo is designed for use in a horse stable environment, not considered an EMC sensitive area 6. The InstantCryo is considered to be a low volume product
Result:	Date: July 2021	Examined by: Don Samways

ECB EQUINE LTD
BOURTON HILL FARM
BOURTON ON THE WATER
CHELTENHAM, GL54 2LF

