

ETSO-2C197 A1

ED Decision 2020/011/R (applicable from 25.7.2020)

INFORMATION COLLECTION AND MONITORING SYSTEMS

1 Applicability

This ETSO provides the requirements which information collection and monitoring systems (ICMSs) that record cockpit audio, aircraft data, airborne images, or data link communications and that are designed and manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 Procedures

2.1 General

The applicable procedures are detailed in CS-ETSO, [Subpart A](#).

2.2 Specific

All the documents specified in EUROCAE ED-155, Section 2-1, 2-1.3.4, must be provided. In addition, a statement must be provided that tools are readily available for the retrieval of recorded information from any memory device used within the robust memory module removed from a crash damaged recorder.

Note: The documents and tools/special recovery techniques required above are meant to be offered to any safety investigation authority, whether or not the request from that authority is made in the frame of an ongoing investigation.

3 Technical Conditions

3.1 Basic

3.1.1 Minimum Performance Standard

The applicable standards are those provided in EUROCAE ED-155, Minimum Operational Performance Specification for Lightweight Flight Recording Systems, dated July 2009.

All ICMSs must meet the requirements in ED-155 Chapters 2-1, 2-2, 2-3 and 2-4 of Section 2. All deployable ICMS must also meet the requirements in ED-155 Chapters 3-1, 3-2, 3-3 and 3-4 of Section 3. Additionally, each Type of ICMS must meet the requirements of ED-155 listed in the table below.

ICMS Type	Your design must also meet the following requirements in ED-155	Your design does not need to meet the following requirements in ED-155
I	Part I, Cockpit Audio Recording System	I-2.1.7 and I-6
II	Part II, Aircraft Data Recording System	II-2.1.7, II-2.1.9, II-2.1.12, and II-6
III	Part III, Airborne Image Recording System	III-2.2 and III-6
IV	Part IV, Data-link Recording System	IV-2.1.6, IV-2.1.11, and IV-6

3.1.2 Environmental Standard

See CS-ETSO, [Subpart A](#), paragraph 2.1.

3.1.3 Software

See CS-ETSO, [Subpart A](#), paragraph 2.2.

3.1.4 Airborne Electronic Hardware

See CS-ETSO, [Subpart A](#), paragraph 2.3.

3.2 Specific

3.2.1 Minimum Dimensions for the Memory Module

The height (a), width (b), and depth (c) of the crash enclosure must each be 4 cm (1.5 inches) or greater.

3.2.2 Failure Condition Classification

See CS-ETSO, [Subpart A](#), paragraph 2.4

A failure of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a minor failure condition. A loss of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a minor failure condition.

Note: The failure classification is driven by the use of the recorders in accident investigations.

4 Marking

4.1 General

See CS-ETSO, [Subpart A](#), paragraph 1.2.

4.2 Specific

None.

5 Availability of Referenced Documents

See CS-ETSO, [Subpart A](#), paragraph 3.

[Amdt ETSO/7]

[Amdt ETSO/16]