



EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 17206-3

May 2025

ICS 97.200.10

English Version

**Entertainment technology - Part 3: Unmanned aircraft
systems (UAS/Drones) for stages and other production
areas - Safety requirements and inspections**

Veranstaltungstechnik - Unbemannte
Luftfahrzeugsysteme (UAS) für Bühnen und andere
Produktionsbereiche - Sicherheitstechnische
Anforderungen und Prüfungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 433.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	6
4 Hazards.....	10
4.1 General.....	10
4.2 List of significant hazards	11
5 Design requirements	14
5.1 General.....	14
5.2 Load assumptions.....	15
5.3 UAS lighter than air	15
5.4 Performance and design requirements.....	16
5.4.1 Sharp edges.....	16
5.4.2 Crashworthiness	16
5.4.3 Tethering	16
5.5 Load bearing equipment	16
5.5.1 General.....	16
5.5.2 Terminal fittings	16
5.6 Load carrying devices.....	16
6 Safeguarding hazardous areas.....	17
6.1 General.....	17
6.2 Safeguarding at crushing, shearing and trapping points, and fall protection	17
7 Electrical equipment and control systems	17
7.1 General requirements.....	17
7.1.1 General.....	17
7.1.2 Electromagnetic compatibility (EMC)	19
7.1.3 Ambient air temperature and humidity.....	19
7.1.4 Protection against electric shock.....	19
7.2 Control circuits and control functions	19
7.2.1 General.....	19
7.2.2 Control devices	19
7.2.3 Enabling devices.....	20
7.2.4 Cable-less control of UAS.....	20
7.2.5 Groups of UAS.....	20
7.2.6 Follow-me mode and UAS interacting with persons	20
7.3 Emergency Stop, loss of power and removal of power.....	20
7.4 Maximum load and overload protection	21
7.4.1 UAS not designed to lift loads	21
7.4.2 UAS designed to lift loads.....	21
7.5 Direct Remote identification requirements.....	21
7.6 Geo-awareness requirements	21
7.7 Lighting requirements	21
8 User information.....	22

8.1	General	22
8.2	Instructions for use.....	22
8.2.1	General wind	22
8.2.2	User information for safety functions.....	22
8.2.3	Outdoor use	22
8.2.4	Loss of synchronization/group operation.....	22
8.2.5	Coordinated move	23
8.3	Marking	23
8.4	Load-carrying device.....	23
9	Testing.....	23
Annex A	(informative) Examples of hazards and risk origin associated with UAS.....	24
Annex B	(normative) Use case definitions.....	32
Annex C	(informative) Designing safety functions for UAS.....	34
Bibliography		38

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN 17206-3:2025](https://standards.iteh.ai/catalog/standards/sist/6e6b3f5e-e483-4551-be90-7a765aa54246/osist-pren-17206-3-2025)

<https://standards.iteh.ai/catalog/standards/sist/6e6b3f5e-e483-4551-be90-7a765aa54246/osist-pren-17206-3-2025>

prEN 17206-3:2025 (E)**European foreword**

This document (prEN 17206-3:2025) has been prepared by Technical Committee CEN/TC 433 “Entertainment Technology – Machinery, equipment and installations”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document specifies safety requirements within the meaning of Directive 42/2006/EC, “Machinery Directive”.

This is the third part of the EN 17206 series. At present the parts of the document are:

- *Part 1: Machinery for stages and other production areas — Safety requirements and inspections*
- *Part 2: Machinery for stages and other production areas — Safety requirements for stands and truss lifts of stands*
- *Part 3: Unmanned aircraft systems (UAS/Drones) for stages and other production areas — Safety requirements and inspections [the present document]*

The deviations from EN 17206-1 specified in this part are based on the particular operating conditions for unmanned aircraft systems (UAS) and cannot be applied to other machinery.

(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN 17206-3:2025](https://standards.iteh.ai/catalog/standards/sist/6e6b3f5e-e483-4551-be90-7a765aa54246/osist-pren-17206-3-2025)

<https://standards.iteh.ai/catalog/standards/sist/6e6b3f5e-e483-4551-be90-7a765aa54246/osist-pren-17206-3-2025>