# Laser emissions which may endanger the safety of aircraft – Draft Advisory Circular 139.E-03 v1.0

Overview

We would like your feedback on a draft advisory circular (AC) that provides advice on protecting pilots of civil aircraft from accidental laser emissions.

With laser light displays becoming more common, it is important that pilots are protected against accidental laser beam strikes. Lasers and high-intensity lights, like sky trackers, pose a serious risk to pilots that can result in difficulties flying and impaired vision.

Draft AC 139.E-03 v1.0 - Laser emissions which may endanger the safety of aircraft, should be used in the planning and control of advertising, entertainment, and similar visual displays using lasers. However, it is unlikely to prevent wilful or malicious laser attacks against aircraft.

It provides guidance on the establishment of protected areas to mitigate the risk of laser emissions impacting on aircraft operations. The guidance also provides information to laser show operators on how to conduct evaluation of laser hazards.

The draft AC provides guidance on:

* hazards associated with laser emissions
* mitigating the risk of laser emissions
* establishing protected flight areas
* evaluating laser emission hazards
* notifying pilots of laser emission hazards.

It will be of interest to:

* pilots
* aerodrome operators
* operators of laser shows
* air traffic controllers.

Why your views matter

We recognise the valuable contribution that community and industry consultation make to the regulatory development process. Your feedback will increase our understanding of your needs and whether the draft AC provides adequate guidance on laser emission hazards.

As this is the first major rewrite of guidance relating to laser emissions, we are seeking feedback as to whether:

* the content of the AC clearly identifies the hazards associated with laser emissions and establishing protected areas
* the content and structure of the guidance is clear and sufficient for laser light show operators.

A copy of the draft AC is provided below with specific details appearing on the designated page of the survey.

**Related Documents**

All documents related to this consultation are attached in the ‘Related’ section at the bottom of the overview page. They are:

* Draft AC 139.E-03 v1.0
* MS Word copy of online consultation for ease of distribution and feedback within your organisation.

Please submit your comments on the draft AC through the Consultation Hub using the survey provided. If you are unable to provide feedback this way, please email us at regulatoryconsultation@casa.gov.au.

Please read the draft AC document before providing your feedback.

**What happens next**

At the end of the response period, we will:

* review all comments received
* make responses publicly available on the consultation hub (unless you request your submission remain confidential)
* publish a Summary of Consultation which summarises the feedback received and outlines any intended changes and next steps.

Feedback that improves the guidance will be incorporated into the final guidance.

# Give Us Your Views [Appears on the overview page at the bottom]

Online Survey [This link is on the front page of the survey and takes you to the survey questions]

**Related**[This section is at the bottom of the front page and contains all the links to other sites and documents related to this consultation]

**Related Documents**

* Draft AC 139.E-03 v1.0 - Laser emissions which may endanger the safety of aircraft
* MS Word copy of online consultation

# Audience & Interest groups

**Audience**

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| * Aerodrome operator
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| * Air operator
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| * Flight instructors and flight examiners
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| * Flight training operators
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| * Pilots
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| * Sports aviation operators
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| * Air traffic controller/s
 |
| * Foreign operator
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| * Air traffic service provider/s
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| * Part 175 of CASR Aeronautical information service providers
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| * Operations Control/Flight Dispatch
 |
| * School/Education/Aviation Theory Provider
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| * Pilots of parachuting aircraft
 |
| * Sport aviation bodies & prospective ASAOs
 |
| * Gliding clubs
 |
| * Certified aerodrome owner/operator
 |
| * Unregulated aerodrome owner/operator
 |
| * Aerodrome owner/operators
 |
| * CASA aerodrome inspector
 |
| * Aerodrome industry consultant
 |
| * Aircraft owner/operator
 |
| * Floatplane operators
 |
| * Air transport operations – rotorcraft (Part 133)
 |
| * Aerial work operator (Part 138)
 |
| * Training organisation representative
 |
| * Flight training organisations
 |
| * Helicopter pilots
 |
| * Flight training operators - helicopters
 |
| * AOC holders operating helicopters
 |
| * Part 138 of CASR certificate holders operating helicopters
 |
| * Instructors and flight examiners
 |
| * Aerial work operator
 |
| * Vertiport developers
 |
| * Potential vertiport owner and operator
 |
| * Local and state planners
 |
| * Air operators (Part 137 of CASR)
 |
| * Light Sport Aircraft, Lightweight Aeroplanes and Ultralight Aeroplanes owners and pilots
 |
| * Light Sport Aircraft, Lightweight Aeroplanes and Ultralight Aeroplanes sport aviation operators
 |
| * Operators and owners of limited category aircraft
 |
| * Pilots of limited category aircraft
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| * Light show proponents (e.g. commercial organisations or education institutions)
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**Interest**

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| * Airspace and infrastructure
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| * Sport and recreational aviation
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| * Air travel
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| * Hazards
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| * Health
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| * Safety management systems
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| * Operational standards
 |
| * Flight training
 |
| * Private operations
 |
| * Self-administration aviation activities
 |
| * In-house training for CASA FOIs
 |
| * Safety promotion
 |
| * Vertiports
 |
| * Registered operators- Private and aerial work operations
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# Page 1. About this consultation

This consultation asks for your feedback on the draft AC 139.E-03 v1.0 - Laser emissions which may endanger the safety of aircraft*.*

We will ask you for:

* **personal information**, such as your name, any organisation you represent, and your email address
* **your consent** to publish your submission
* **your responses** to the proposed changes in the guidance
* **demographic information** to help us understand your interest in the guidance
* **any comments** you may want to provide

Our [website](https://www.casa.gov.au/rules/changing-rules/consultation-industry-and-public) contains more information on making a submission and what we do with your feedback.

# Page 2. Personal information

## First name

*(Required)*

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## Last name

*(Required)*

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## Email

*If you enter your email address, you will automatically receive an acknowledgement email when you submit your response.*

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## Do your views officially represent those of an organisation?

*(Required)*

*Please select only one item*

[ ]  Yes, I am authorised to submit feedback on behalf of an organisation

[ ]  No, these are my personal views.

## If yes, please specify the name of your organisation.

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Which of the following best describes the group you represent?

*Please select only one item*

[ ]  Laser show proponent

[ ]  Aerodrome operator

[ ]  Pilot

[ ]  Air traffic control provider

[ ]  Other

Please specify ‘Other’ if selected.

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# Page 3. Consent to publish submission

To provide transparency and promote debate, we intend to publish all responses to this consultation. This may include both detailed responses/submissions in full and aggregated data drawn from the responses received.

Where you consent to publication, we will include:

* **your last name** if the submission is made by you as an individual
* **the name of the organisation** on whose behalf the submission has been made
* **your responses** and comments

We **will not** include any other personal or demographic information in a published response.

Information about how we consult and how to make a confidential submission is available on our [website](https://www.casa.gov.au/rules/changing-rules/consultation-industry-and-public).

Do you give permission for your response to be published?

*(Required)*

*Please select only one item*

[ ]  Yes - I give permission for my response/submission to be published.

[ ]  No - I would like my response/submission to remain confidential but understand that de-identified aggregate data may be published.

[ ]  I am a CASA officer.

# Page 4. Draft AC 139.E-03 v1.0 - Laser emissions which may endanger the safety of aircraft

Please provide any comments you have on draft AC 139.E-03 v1.0 in the comments box below particularly regarding whether:

* the content of the AC clearly identifies the hazards associated with laser emissions and establishing protected areas
* the content and structure of the guidance is clear and sufficient for laser light show operators.

Read the Draft AC 139.E-03 v1.0

Comments

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