

Disruption of satellite navigation

Among the many wireless communication services that may be disrupted, Global Navigation Satellite System (GNSS) is one of the most vulnerable. GNSS is the joint designation for satellite navigation systems such as GPS, Galileo, GLONASS and BeiDou.

The satellites orbit the Earth at heights of approximately 20,000 kilometres. The radio signals are therefore very weak and vulnerable when they reach Earth's surface.



Serious consequences of jamming

Jamming exposes many important societal functions to risk and loss of their ability for precise position, navigation and timing.

Nkom wants to be tipped off about the use and sale of jammers

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Critical public functions:

- aviation
- shipping
- emergency services
- eCall in vehicles in the EU
- air ambulance
- armed forces
- police

Private and commercial use:

- cell phone services
- navigation services
- drivers/professional drivers
- petroleum activities
- fishing industry

Seizure of equipment

The Norwegian Customs is authorised under the Norwegian Customs Act to control and stop goods at the border.

Nkom and the Norwegian Customs have the legal authority to confiscate goods that constitute a serious risk.

The Police has its own authority to seize equipment.



Photo: Hans O. Torgersen/Aftenposten

USE OF JAMMERS IS ILLEGAL

EXAMPLES OF JAMMERS

Experiencie shows that jammers are purchased abroad, or via foreign websites. Here are examples of such equipment:

This is a widely used cell phone jammer. The main objective is to disrupt or block cellular communication between the handset and the base station. It also exists combined jammers that disrupt both microwave intermet and microwave signals from GPS.

This jammer is often highly compact and affordable so it can be easily carried around. It disrupts signals for GPS and WiFi, which makes it useful for preventing tracking or location sharing.

Camouflaged jammers There are a number of different jammers that are

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dealing something else. The picture on the ammer disguised as a pack of cigarettes.

Camouflaged jammers

cameras for navigation signals

Cell phone jammer

Krom wants to be tipped off about the use and sale of jammers, in order to prevent serious incidents of jamming.

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Krom has staff in several parts of the country with considerable expertise using advanced measuring instruments to detect and locate

mmers in Norway. Yet the equipment may also be obtained abroad or from foreign websites.

Likom wants to be tipped off

systems. Tracking or to disable alarm systems and prevent calls, evade satellite-based road hide the location of stolen goods, communicate. The purpose may be option and to block wireless can be used to hide one's own

Signals from jammers can disrupt and block critical services. Jamming can lead to very serious incidents, potentially endangering life, health and safety when communication, navigation or emergency services are disrupted.

JAMMERS THREATEN THE PUBLIC SECURITY