

Dazzling light protection module



Overview

We present a protection concept for electro-optical sensors to suppress dazzling in the visible spectral region. The present invention relates to a method for protecting a user of a light system (100), which comprises multiple illuminants (L1-L6), at least one light sensor (30) and at least one coding unit (40), from dazzling light from at least one of the illuminants (L1-L6), comprising the following steps:.

Laser illuminator systems are essential tools in modern defense, enhancing night vision, disorienting targets, and protecting against hostile sensors. With. The Model MKII is a versatile, non-lethal multispectral illumination package designed to enhance the capabilities of weapon platforms and sensor systems. Developed with a modular and scalable design, this unit is particularly optimized for Kongsberg Protector RS4 Remote Weapon Systems (RWS). It can. Coalition forces conducting operations in megacity across the continuum. Joint Forces must maneuver through urban areas to reach objectives. Civilian vehicle and foot traffic impede movement of friendly forces. Primarily intended to deter enemy forces from advancing in combat, it can also be used for hailing and warning.



Article Content

Electro-optical sensor with automatic suppression of laser dazzling

Immediately say that some red and green laser light affects the sensor. A good estimation of the dazzling wavelength can be derived by an analysis of the color values

Dazzling Light — RGB Matrix Module for Arduino 1.0

Dazzling Light ¶ In the previous project, we learned to use some simple functions to make RGB Matrix HAT work. So here, we will use the `draw_line()` function with

Dazzler (weapon)

It uses collimated incoherent (non-laser) broad spectrum visible and near infrared light from a short-arc lamp to safely and temporarily impair vision, disorient and

High Quality Laser Dazzling System Manufacturer and Supplier

The Laser Dazzling System (LDS) mainly consists of a laser, an optical system, and a main control board. It has the characteristics of good monochromaticity, strong directionality, small size, light

Lighting Protection | Circuit Protection | DigiKey

Lighting protection devices that use LED shunt or surge protection technology specifically designed to protect LED and other lighting circuits in situations where there may be excessive current, voltages

Laser Illuminator lasers | Night vision | Laser dazzling

Laser illuminator systems are essential tools in modern defense, enhancing night vision, disorienting targets, and protecting against hostile sensors. Our range

Automatic Suppression of Intense Monochromatic Light

Sufficient attenuation of dazzling laser light, while offering a high transmittance for non-dazzling radiation. No colour distortion is introduced in the

B-Five Dazzling 12 Module Cover Plate, B-068DZ (Pack of 10)

All B-Five Dazzling 12 Module Cover Plate, B-068DZ (Pack of 10) are manufactured by using quality assured material and advanced techniques, which make them up to the standard in this highly

Sensor protection against laser dazzling

Laser dazzling of electro-optical sensors states a serious problem. Especially when navigational tasks shall be fulfilled a disturbance of the sight is unacceptable. Classical protection measures like e.g.

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Evaluation of protection measures against laser dazzling for imaging ...

The performance evaluation approaches are applied on experimental data obtained with two different imaging sensors hardened against laser dazzling. The hardening concept of the first sensor is based

Laser Dazzler Effects and Applications

Vehicle Mounted Radio Frequency Vehicle Stopper protects friendly forces from vehicle-borne improvised explosive devices. Help to prevent unnecessary destruction and loss of life. Expand

27 October 2010 Sensor protection against laser dazzling

Laser dazzling of electro-optical sensors states a serious problem. Especially when navigational tasks shall be fulfilled a disturbance of the sight is unacceptable. Classical protection measures like e.g.

Automatic Laser Glare Suppression in Electro-Optical

We present a protection concept for electro-optical sensors to suppress dazzling in the visible spectral region. The key element of the concept

Scheme of a laser dazzling protection concept using a

Figure 1 shows a schematic view of our protection concept combining a spatial light modulator with the technique of wavelength multiplexing.

Evaluation of protection measures against laser dazzling for imaging ...

Download Citation | On Oct 21, 2016, Gunnar Ritt and others published Evaluation of protection measures against laser dazzling for imaging sensors | Find, read and cite all the research you need ...

Sensor protection against laser dazzling | (2010) | Ritt

Therefore, new protection concepts should be aspired which are independent of the laser wavelength and do not affect the vision. In this paper we discuss a novel concept to protect electro-optical

Lighting Surge Protection Modules Design and Installation Guide

Lighting Surge Protection Modules Design and Installation Guide LED Lighting Surge Protection Modules Design and Installation Guide ... 2016 Littelfuse, Inc. Specifications descriptions and

Protection performance evaluation regarding imaging sensors

Electro-optical imaging sensors are widely distributed and used for many different purposes, including civil security and military operations. However, laser irradiation can easily disturb

Protection performance evaluation regarding imaging sensors ...

In order to evaluate the performance of various laser protection measures, two different approaches based on triangle orientation discrimination on the one hand and structural similarity on the other

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Protection Functions

Time-Overcurrent Protection and Distance Protection modules The Time-Overcurrent Protection module includes general modelling capability, together with dedicated tools for assessing and visualising

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Evaluation of protection measures against laser dazzling for imaging ...

We present the latest results of our work regarding the evaluation of protection measures against laser dazzling for imaging devices. Three different approaches for the evaluation of dazzled sensor images

Military Laser Module

Developed with a modular and scalable design, this unit is particularly optimized for Kongsberg Protector RS4 Remote Weapon Systems (RWS). It can be configured with various light sources both within

Sensor protection against laser dazzling

Therefore, new protection concepts should be aspired which are independent of the laser wavelength and do not affect the vision. In this paper we discuss a novel concept to protect electro

Laser Dazzlers : BeamQ Laser, DFB Laser, Solid State

The laser dazzlers emit infrared or invisible light against various electronic sensors, and visible light against humans. Laser dazzlers has a wider laser beam than

US20190150243A1

B60Q1/143 — Automatic dimming circuits, i.e. switching between high beam and low beam due to change of ambient light or light level in road traffic combined with another condition, e.g. using...

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