

Our Variable DOF Bessel objective is a Diffractive based optical module that to focuses a single mode Gaussian input beam into a tight spot with 2 um waist size and a variable depth of focus (DOF) ...

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that ...

Depth of Field The DOF of a lens is its ability to maintain a desired amount of image quality (spatial frequency at a specified contrast), without refocusing, if the object position is moved closer and ...

Also known as "depth of field", this is the distance (measured in the direction of the optical axis) between the two planes which define the limits of acceptable image sharpness when the microscope is ...

Understanding Depth of Focus in Exposure Systems In the realm of optical and photographic systems, a crucial concept that often comes into play is the Depth of Focus (DOF). It's ...

The DoF should be distinct from another optical property, called the Depth of Focus, which refers to the tolerance of placement of the image plane concerning the lens position (Figure 1). ...

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Depth of Field (DoF) is crucial for embedded vision since it can improve the ability to process and analyze visual data. It is impacted by factors such as aperture size, focal length, and ...

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

DEEPCLEAVE EXTENDED DEPTH OF FOCUS OPTICAL PRODUCTS DeepCleave is a Diffractive optical module used to focus a single mode Gaussian input beam into a tight spot with ~ 1.8 um waist ...

The front depth of field (DoF F) is positive whereas the rear depth of field (DoF R) is negative. Since the total depth of field represents a distance, it is expressed as an absolute value. As effective f ...

Design requirements Modern optical module designs often require: Reduced power consumption to control and limit module temperature rise. Dynamic and precise control of laser diodes to regulate ...

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