EIT Opto-Routing

Inquiry about the 1m blind zone of a high-precision optical power meter for local area networks

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Small blind zone and ranges of up to 2.2m

ifm's ultrasonic sensors in M18 design provide a particularly small blind zone and sensing ranges of up to 2.2 m which are usually only achieved by sensors of a

High-Precision Optical Metrology Techniques and Their

This article overviews key optical metrology techniques, their technical principles, and leading technology providers.

Integrated high precision time-of-flight depth sensing and optical

Convergence of sensing and communication in the same architecture is being considered for implementation in the future sixth-generation (6G) networks due to spectrum congestion and cost

Investigation on Micro-Vibration Test and Image

With the advancement of space exploration and optical communication toward deep space, the high-precision evaluation and image stabilization of

Precision noncontact measurement of blind holes by machine vision

SPIE Digital Library Proceedings Based on optical non-contact sensing and machine vision technology, an optical non-contact measurement instrument for measuring blind

holes, as well as through holes,

Optimal blind sampling strategy for minimum zone

An estimate of the neighborhood of the centroid containing the minimum zone center. Computation experiments with genetic algorithm to assess accuracy and computation time. Optimal

Blind zone

Large vessels can have up to several hundreds of meters of a blind zone. Often special short-range radars are installed additionally on ships for close range, which also have an essential function in

Avoid blind spots in the radar

Avoid blind spots in the radar Imaging techniques such as radar are extremely important for the Federal Armed Forces; airborne sensors in particular provide a

A Comprehensive Review of Optical Metrology and

Optical metrology and perception technologies employ light as an information carrier to enable non-contact, high-precision measurement of

A Review: High-Precision Angle Measurement

Angle measurement is an essential component of precision measurement and serves as a crucial prerequisite for high-end manufacturing. It

Deep learning in optical metrology: a review

In this review, we present an overview of the current status and the latest progress of deep-learning technologies in the field of optical metrology.

Beyond the Blind Zone

In this post, we review high-level details from our recent work on image inpainting of radar blind zones. We discuss the main science problems, inpainting techniques, model architecture

ASPE Extended Abstract Template

In the past decades, many high-precision coordinate measuring instruments have been developed to perform 3D measurement. However, most of them are based on touch

Minimum Detection Range: Radar Blind Zones and Mitigations

Minimum radar detection range creates radar blind zones. Here's why close-in detection fails, and what actually fixes it without fantasy specs.

Carlo Gavazzi , Ultrasonic Sensors FAQ

A blind zone exists directly in front of the sensor. It is the range in front of the sensor where objects cannot be reliably detected, or where an unstable output would occur.

Optical Power Monitors - fiber-optic power meters,

Optical power monitors are devices for monitoring optical powers in free-space light beams or in optical fibers.

Deep learning in optical metrology: a review

We first briefly introduce both traditional image-processing algorithms in optical metrology and the basic concepts of deep learning, followed by a comprehensive review of its applications in

The scan range of the rotation double-prism system, where a blind

In the three-element Risley prism system, non-linear errors, the infinite solution, the blind zone and the singularity are primary factors that affect the scanning accuracy of the system.

Integrated high precision time-of-flight depth sensing and optical

This paper presents an integrated architecture for time-of-flight (ToF) depth sensing and optical communication simultaneously based on Hamiltonian coding function. The feasibility and

80GHz Radar Level Meter: Blind Zone Size and Detection Range

The blind zone and detection range of Linpowave's 80GHz radar level meter (LPLM80) are the main topics of this article. It explains how small the blind zone can be and how far the radar

A new blind pointing model improves large reflector antennas precision

The National Aeronautics and Space Administration (NASA), Jet Propulsion Laboratory (JPL)-deep space network (DSN) subnet of 34-m beam waveguide (BWG) antennas

A methodology for incorporating the Doppler blind zone in target

In this paper, we introduce a new methodology for tracking under Doppler blind zone constraints, based on Gaussian mixture approximations to the conditional density.

Low Complexity Blind Phase Search for Coherent Optical

Abstract: In this paper, a phase noise estimation method called minimum bisection blind phase search (MB-BPS) is proposed. Comparing with original blind phase search (BPS), the result shows that the

Noncontact 3D measurement method on hole-structure precision

In order to implement 3D point cloud scanning of small hole structure, which could not be contacted or damaged, we propose a noncontact 3D measuring method. The system contains a

A new blind pointing model improves large reflector

In addition, the new 4th order pointing model was used during a telemetry experiment at Ka-band (32 GHz) utilizing the Mars Reconnaissance

A BLIND ZONE SOLUTION TO THE PROBLEM OF HIDDEN

In seismic refraction surveys, in particular those using first arrival recording techniques, the hidden layer problem occurs where energy from a refractor of higher velocity arrives at the surface before energy

Exploring Ultrasonic Blind Area in Ultrasonic Level

Enhanced Precision: With a smaller blind area, our ultrasonic level sensor delivers high precision up to 0.25%F.S in measuring liquid levels. This is

5.1 High-precision optical metrology for surfaces

This chapter intends to give an overview of optical methods for surface metrology with

focus on high precision, in lateral direction and for large fields in vertical direction.

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