

Eye Surveyor Attenuation Blind Zone 5m Selection Guide



Summary of Content

When selecting an Eye Surveyor system with a 5-meter blind zone, ensure the device provides clear forward visibility, minimal blind sectors, and appropriate attenuation to maintain accurate detection within the first 5 meters.

Understanding Blind Zones

A blind zone is the area immediately in front of the observer or sensor where objects cannot be detected due to physical obstructions or sensor limitations. For maritime or navigational applications, regulations specify that:

- No individual blind sector forward of the beam should exceed 5° , and the total arc of blind sectors should not exceed 20° .
- Clear sectors between blind zones should be at least 5° to ensure continuous visibility.
- The height of the observer's eye (typically 1,800 mm) and the design of windows or sensor mounts must allow a forward view of the horizon, even in pitching seas. For a 5-meter blind zone, the system should be positioned and calibrated so that any obstruction or attenuation does not prevent detection of objects within this critical range.

Attenuation Considerations

Attenuation refers to the reduction in signal strength due to atmospheric conditions, sensor design, or obstructions. Key points include:

Article Content

Blind-Zone Target Detection and Direction Estimation: An IRS-Aided ...

To this end, we investigate a blind-zone target detection and direction estimation problem in the IRS-aided orthogonal frequency

Eye Diagram | Eye Pattern in digital communication

Understand Eye Diagrams in Digital Communication. Learn how to interpret eye patterns, jitter, signal integrity & more — with simple

Barrier Attenuation

Strutt|Environmental Noise|Barrier Attenuation provides a barrier attenuation calculation, using either the Maekawa, ISO9613-2

3 Field of Vision

3.1 Every effort should be made to place the navigation bridge above all other decked structures, not including funnels, which are on

Examples of two eyes (two subjects) with different levels of EZ...

Download scientific diagram | Examples of two eyes (two subjects) with different levels of EZ attenuation and corresponding VA

Understanding Eye Pattern Measurements Application Note

This application note reviews basic eye diagram definitions and terminologies, and presents several typical examples of

Examination of the Eyes and Vision – OSCE Guide

Assessment of the eyes and vision frequently appears in OSCEs, and you'll be expected to pick up the relevant

Using SuDS close to buildings

The Building Regulations state that “Infiltration devices should not be built within 5m of a building or road or in areas of unstable

Visual Field Assessment and Disability Evaluation

Read chapter 3 Current and Emerging Practice in Visual Field Testing: Visual field is the total area of space a person can see when

Optical Attenuation Coefficient-Based En Face Optical Coherence

Objective: This study used optical attenuation coefficient (OAC)-based optical coherence tomography (OCT) en face

Fundamentals of an OTDR

Short pulse width, short dead zone and low power are used to test short links where events are closely spaced, while a long pulse

Procurement of Red Light Source Attenuation Blind Zone 5m

A Procurement notice has been published for Provision of 5m Poles with Led Light and Street Light at Various Dark Spot in Ward No.

Visual field testing in glaucoma using the Swedish Interactive ...

The Swedish Interactive Thresholding Algorithm (SITA) is the main measurement acquisition algorithm used on the

OTDR Blind Area Analysis

The OTDR attenuation blind zone refers to the minimum distance at which the OTDR can accurately measure the

OCULUS Keratograph 5M Topographer

The Keratograph 5M contains features that offer optimal conditions for your image documentation. An image aids in communication

Photoelectric Sensors

Photoelectric sensors, or photo eyes, emit a beam of light that detects the presence or

Radar Level Transmitter Dead Zone Configuration Guide

The dead zone (also known as blind zone or near zone) of a radar level transmitter refers to the region

Pulse Selection vs. Dead Zone

In theory, a 3 ns pulse width should produce a better attenuation dead zone than a 5 ns pulse width. But, although this is true on

Radiopaedia

By Section: Anatomy Approach Artificial Intelligence Classifications Gamuts Imaging Technology Interventional Radiology

Arkansas Sky Observatories

DOC CLAY'S EYEPIECE SELECTION AND PRACTICAL USE GUIDE - Following are individual breakdowns on each of the

Eye Diagram Basics: Reading, Analyzing and Applying

In an ideal world, eye diagrams would look like rectangular boxes. In reality, communications are imperfect, so the

Choosing Laser Eye Protection. A Guide | NoIR InSight

Learn how to choose the right laser eye protection for your wavelength and application. NoIR guide covering OD ratings, frame

Slide 1

Plotting Detection – recognition of the presence of the target. Selection – choosing of target requiring closer observation. Tracking –

Pulse Selection vs. Dead Zone

Generally speaking, the rationale behind selecting the shortest pulse on an OTDR is to obtain the best spatial resolution, and the

Using the Eye Pattern to Troubleshoot Signal Impairments

In conclusion, the eye pattern is a useful tool for troubleshooting signal impairments. Careful inspection of the shape of the eye

Fact sheet: Monitored Natural Attenuation

Description Monitored Natural Attenuation is an environmental management approach that uses a natural process, or combination of

Low Blind Zone Atmospheric Lidar Based on Fiber Bundle Receiving

This drawback is well known as the blind zone effect, which hinders the application of atmospheric lidars in many

Procurement of Red Light Source Attenuation Blind Zone 5m

Large scale procurement of radiation resistant single mode optical Simultaneously, a spectral attenuation analysis (from 900 nm to

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://madibabayelectrical.co.za>

Email: sales@madibabayelectrical.co.za

Phone: +27 63 947 2185

Address: 15 Fredman Drive, Sandton, Johannesburg, 2196, South Africa

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