



DOVEN LLC

---

DVD Series – User's Manual

# Linear Measurement

DOVEN LLC

# DVD Series – User's Manual

---

© Doven LLC  
2408 Timberloch Pl • Suite A5  
The Woodlands, TX 77380  
USA

Revision 1.0

Mar/2019

---

# Table of Contents

Introduction .....	1
Installation .....	1
Repairs.....	1
Antenna Considerations.....	2
Power Supply .....	2
Interfacing with Ethernet devices .....	2
Safety .....	2
Mounting Instructions .....	3
1D Linear Measurement .....	4
Warranty .....	5
FCC Certification.....	5
Antenna Use .....	6
Copyright.....	6

## Introduction

**D**oven DVD Series devices are purely for distance measurement assistance systems. They therefore do not satisfy the safety class 3 requirements and must not be used as standalone systems in safety-critical applications, such as anti-collision.

Doven devices are designed and built with close collaboration between the hardware and software teams to deliver products that are both user-friendly and have plenty of functionality.

## Installation

All installation, repair and servicing work must be carried out by qualified and trained personnel.

During installation, make sure that no objects or fluids get inside the device (risk of electric shock, short circuit).

In case of emergencies, switch off the power supply to the device immediately and contact Doven Customer Support for assistance and repairs.

Protect the contacts of all of the device's sockets and plugs from static electricity. Do not touch the contacts. If it is ever necessary to touch the contacts, take the following precautionary measures: Touch a grounded object or carry a ground strap before touching the contacts. This will divert static charges.

## Repairs

Repairs to the device must be carried out by authorized technicians. Unauthorized opening and incorrect repairs could result in severe danger to the user (danger of electric shock, radiated energy, fire hazard) and void the FCC certification of the device.

---

## Antenna Considerations

This unit has been designed to be operated with the supplied antenna.

**Utilization of any other antenna is strictly prohibited. The use of any antenna other than the one supplied by Doven is explicitly forbidden.**

**Only Doven is authorized to replace a defective or non-working antenna.**

## Power Supply

Before connecting power to this unit, please verify that the following conditions are satisfied:

- a.) A safety-inspected power cable that satisfies the regulations of the country of use is required for the device.
- b.) Avoid the use of any damaged wires (damaged insulation, exposed wires). A faulty wire poses a risk of electric shock or fire hazard.
- c.) The device is connected to the ground following the instructions on the following pages.
- d.) Device is operated at the nominal voltage described on the following pages.

## Interfacing with Ethernet devices

Use of either a Category 5 (or higher) shielded cable for 10/100 Ethernet or Category 5e (or higher) shielded cable for gigabit Ethernet is a minimum requirement.

## Safety

Never open this device. Only Doven authorized personnel should open the unit.

Cut the power to the unit before disconnecting and unmounting the unit.

Please take note of the safety and operating instructions in the operating instructions for the system in which you want to install the component.

## Mounting Instructions

- All units are used indoors.
- No antennas are installed at any outdoor locations.
- ALL indoor antennas are pointed towards the interior of the area to be covered.
- No antennas will be installed indoors pointing outdoors. The emissions from equipment shall not be intentionally directed outside of the building in which the equipment is located, such as through a window or a doorway, to perform an outside function, such as the detection of persons about to enter a building.
- All ground indoors antennas will be connected to 120 VAC.

## 1D Linear Measurement

The 1D linear measurement consists of a pair of Doven devices used only to measure the distance between them and eventually trigger warning and collision signals. Direct line of sight is required between both devices. One device should be set as Anchor whereas the second unit should be set up as Beacon. The following picture shows the typical application for this mode:



## Warranty

Doven is a customer service-oriented company focusing on providing the best products for our customers and integrators. One of our greatest strengths are the pre-sales engineering and the after sales support.

If you experience any issue with one of our products you should contact our customer support sending an email to the following address:

[support@dovenllc.com](mailto:support@dovenllc.com)

Please include the following information on your email:

- Customer Name.
- Customer contact information.
- Model and Serial number of the device experiencing issues.
- Problem description.

## FCC Certification

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device also complies with part 15.517 of the FCC Rules. ***This equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C. 301 and could subject the operator to serious legal penalties.***

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Changes or modifications not expressly approved by the Doven LLC could void the user's authority to operate the equipment.



## WARRANTY AND CERTIFICATIONS

This device must only be sold by Doven LLC or any authorized representative.

In all cases, sales are done to industrial/commercial companies.

Sales to end the general public are forbidden and not applicable for this type of device.

All installation, repair and servicing work must be carried out by qualified and trained professionals.

Only Doven can replace any malfunctioning antenna.

### Antenna Use

- This device is sold with its own antenna.
- Only Doven can replace any malfunctioning antenna.

**THIS DEVICE HAS BEEN DESIGNED TO OPERATE WITH THE SUPPLIED ANTENNA. UTILIZATION OF ANY OTHER ANTENNA IS STRICTLY PROHIBITED FOR USE WITH THIS DEVICE AND MAY VOID THE FCC AUTHORIZATION TO OPERATE THIS EQUIPMENT. THE USE OF ANY OTHER ANTENNA OTHER THAN THE ONE SUPPLIED BY DOVEN LLC IS EXPLICITLY FORBIDDEN.**

### Copyright

All rights reserved. No part of this hardware, software, circuitry or manual may be duplicated, copied, transmitted or reproduced in any way without the prior consent of Doven LLC.