

# DOT Ground Laser Receiver: Overview and Major Trades

Kevin M. Birnbaum,\* Jeffrey R. Charles,\* William H. Farr,\* Jonathan Qin,\*  
Kevin J. Quirk,\* William T. Roberts,\* Jeffrey A. Stern,† and Yen-Hung Wu‡

The Deep-space Optical Terminals (DOT) project will provide high-data-rate optical communications from planetary distances. An overview of the architecture of the ground-based receiver subsystem is presented, along with a conceptual design of the subsystem assemblies. Major trades are described along with the selected approach.

## I. Introduction

Optical communications has the potential to increase the achievable data rate from spacecraft at planetary distances by orders of magnitude [1,2,3]. The Deep-space Optical Terminals (DOT) project is intended to be the first demonstration of bidirectional optical communications between Earth and deep space [4]. The top-level requirement is to deliver more than 10 times the data rate of a link-limited state-of-the-art Ka-band system [5] with comparable mass and power burden on the host spacecraft.

The DOT system is composed of four major subsystems, as shown in Figure 1. The DOT Mission Operations Center (MOC) controls DOT operations and performs data analysis and archiving. The Ground Laser Transmitter (GLT) sends an uplink beam to the spacecraft [6]. This beam is used as a pointing reference (i.e., beacon) at the spacecraft, as well as carrying uplink communication data. The Flight Laser Transceiver (FLT) is the DOT subsystem mounted on the spacecraft [7]. It receives the uplink beam and transmits a downlink beam. The Ground Laser Receiver (GLR) receives the downlink light and recovers the communication data. DOT also supports ranging by measuring the time of flight on both the uplink and downlink beams.

An overview of the DOT requirements is given in [4]. In order to perform all of the required demonstrations, the DOT system specifies two sets of requirements on the GLR corresponding to two modes of operation: a high-rate mode and a low-rate mode. The high-rate mode, which is used only for nighttime operations, must provide a net gain of 142 dB to support the maximum DOT downlink data rate of 267 Mb/s. The low-rate mode is used to demonstrate link acquisition over a range of conditions, including Sun-Earth-probe (SEP) angles

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\* Communications Architectures and Research Section.

† Instrument Electronics and Sensors Section.

‡ Optics Section.

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# Jj Wild Mars Optical Server Manual

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## **Table of Contents Jj Wild Mars Optical Server Manual**

1. Understanding the eBook Jj Wild Mars Optical Server Manual
  - The Rise of Digital Reading Jj Wild Mars Optical Server Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Jj Wild Mars Optical Server Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jj Wild Mars Optical Server Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jj Wild Mars Optical Server Manual
  - Personalized Recommendations
  - Jj Wild Mars Optical Server Manual User Reviews and Ratings
  - Jj Wild Mars Optical Server Manual and Bestseller Lists
5. Accessing Jj Wild Mars Optical Server Manual Free and Paid eBooks
  - Jj Wild Mars Optical Server Manual Public Domain eBooks
  - Jj Wild Mars Optical Server Manual eBook Subscription Services
  - Jj Wild Mars Optical Server Manual Budget-Friendly Options

6. Navigating Jj Wild Mars Optical Server Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Jj Wild Mars Optical Server Manual Compatibility with Devices
  - Jj Wild Mars Optical Server Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jj Wild Mars Optical Server Manual
  - Highlighting and Note-Taking Jj Wild Mars Optical Server Manual
  - Interactive Elements Jj Wild Mars Optical Server Manual
8. Staying Engaged with Jj Wild Mars Optical Server Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jj Wild Mars Optical Server Manual
9. Balancing eBooks and Physical Books Jj Wild Mars Optical Server Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jj Wild Mars Optical Server Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Jj Wild Mars Optical Server Manual
  - Setting Reading Goals Jj Wild Mars Optical Server Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jj Wild Mars Optical Server Manual
  - Fact-Checking eBook Content of Jj Wild Mars Optical Server Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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