



### Features

- New EMC approved enclosure
- Buy America compliant
- Integrated Loop Data Display Card
- New integrated Automatic Loop Scanner
- New Power Supply with lightning protection
- No Filter-V's required
- Optional TCP/IP interface available
- Optional GPRS interface available

### Benefits

- Space saving 42HP Rack
- Reduction in cost (especially in large installations) due to elimination of Loop Antenna tuning

### Introduction

The VETAG Interrogator-5367 (VI-5367) is a new generation VETAG Interrogator. The major improvements compared to the existing VETAG Interrogator in addition to the above mentioned features are: all components have front plates and all connectors are type Sub-D. The VI-5367 configuration consists of the standard VETAG Interrogator section (Transmit/Receive Card, Loop Scan Timing Card and Shift Register/Buffer Card) with an additional Automatic Loop Scanner, new COMM-2-1 Card and Data Loop Display Card (for details see the system layout on page 2 of this data sheet).

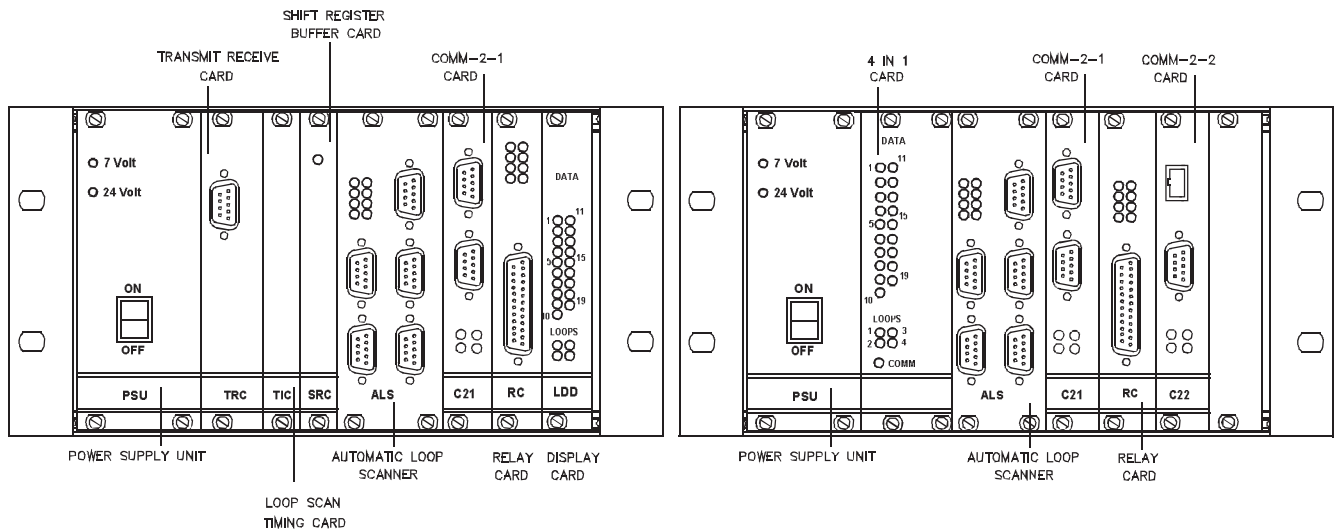
### Basic Functionality

The basic functions of the VI-5367 are:

- Transmits a 100kHz signal, via the Loop Antenna, to interrogate any Transponder within the range of that Loop Antenna
- Receives data messages from the Transponder in range of the Loop Antenna
- Checks the received data messages for the presence of correct start and stop bits
- Performs the comparison between two successive data messages and validates only after they have been found identical
- Processes the received data messages and outputs them through the output buffer to the application boards which in this configuration are the COMM-2-1 Card and the Data Loop Display Card.

### New Components

- The Automatic Loop Scanner continuously fine-tunes the connected Loop Antennas resulting in maximum inductive communication performance between the VETAG Vehicle and the Wayside equipment. This unit also eliminates the need for Filter-V's.
- The Communication-2 Card has been developed based on customer requirements resulting in the following new features;
  - One (1) serial port for standard RS232 interfaces for direct or modem connection
  - One (1) serial port for customer specific signaling equipment interfaces such as Genesys, VHLC or others (software development needed for customer specific interface protocols is free of charge)
  - SD-Card slot for data logging purposes
  - New PTU Application Software package with numerous new functions such as event reporting/analysis
  - TCP/IP interface for real-time event monitoring
  - I<sup>2</sup>C-Bus for controlling multiple Relay cards



Current Configuration

Configuration Currently Under Development

### Specifications

Interrogation Frequency	100 kHz Xtal stabilized	
Current to Loop Antenna	Adjustable 100 - 400 mA	
Duration of Int. Pulse	2 ms	
Repetition Frequency	41.25 Hz	
Loop Dimensions	Minimum width 2 ft (61cm), Maximum perimeter 52.5 ft (16m)	
COMM-2-1 Card	Serial Interfaces	1x Standard RS232 and 1x Customer Specific interface
	I <sup>2</sup> C-Bus Interface	
	SD-Card Interface	
Relay Card	8 Parallel Outputs	NC or NO Relay Contacts
	I <sup>2</sup> C-Bus Interface	
Power Requirements	Power Consumption	110 VAC 50 mA
	Input Voltage	85 - 140 VAC, 47 - 63 Hz
Environment	Temperature	-13 ~ +158 °F (-25 ~ +70 °C), Operating
	Humidity	-95% @ 104 °F (+40 °C) (non condensing), Operating
	Vibration Resistance	1 Grms, IEC 60068-2-64, Random, 5 ~ 500 Hz, 1 Oct/min, 1 hr/axis, Operating
	Shock Resistance	20 G, IEC 60068-2-27, half sine, 11 ms, Operating
Physical Characteristics	Construction	Aluminum housing
	Mounting	Stand alone or 19" rack mounting
	Dimensions (WxHxD)	9" x 5.25" x 9.5" (228 x 133 x 241mm)
	Weight	6 lb (2.72 kg)

### Ordering Information

Part Number	Description
6950 0000 5367	VETAG Interrogator

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VECOM USA is proud to be ISO 9001:2000 Certified

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