## **Telenetics**

# Microwave

MODEL 2423 24.0-24.25 GHz MILLIMETER WAVE RADIO LINK

- ▲ Full Motion Video & Two Data Channels RS-250C Medium Haul Performance
- ▲ Video, PTZ & Data Link
- ▲ FCC Licensing = None Part 15 Compliant
- $\bigstar$  NEMA Temperature Range
- ▲ Two Hour Installation Time
- ▲ Flexible Two Antennas All Frequencies
- 🔺 Low Cost Fast Payback
- ▲ Low Maintenance Simple, Compact & Trouble-Free
- ▲ 2 Year Warranty



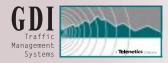
The GDI 2423 series millimeter wave radio is a versatile, simple, low cost alternative to a land-line video circuit.

If your requirements are for simplex video for NTSC or PAL with two full duplex data channels, the Model 2423 millimeter wave radio link affords you a low cost radio solution.

Constraints due to cost, response time or right-of-way that you may have with land line implementation you may find the Model 2423 video radio to be quicker, easier and more affordable.

## Applications

- Point to point surveillance
- Video interconnection between several sites
- Last mile connections



## **Technical Summary**

Frequency Range	24.000 to 24.250 GHz
Standard TX/RX spacing	125 MHz
RF Channel Bandwidth (minimum)	24 MHz
Modulation type	FM
Transmission Configuration	Simplex Video, dual duplex
	control channels
Control Channels are	RS422 Standard RS232 or RS485 Available

## **Transmitter Characteristics**

RF Source	Oscillator/Multiplier
Guaranteed power output	250 mV/m @ 3 m from transmit antenna
Frequency Stability (-37 to +74 C)	+/- 0.0005%

## **Receiver Characteristics**

Туре	Superhetrodyne
Noise Figure	6.2 dB Typical
Video Threshold	- 80 dBm
Maximum Receiver Input	- 10 dBm

## **Antenna Characteristics**

Туре	Parabolic
Diameter	12.5 Inches (31.8 cm)
Polarization	Linear
Front to back ratio	40 dB
Beamwidth @ 3 dB points	3.5 Degrees

## **Environmental Characteristics**

Ambient Temperature Range	- 37 to +74 Degrees C
Storage and Transportation	- 40 to + 80 Degrees C
Humidity	Up to 100%

137 dB

#### Transmission Data System Gain

## Input Voltage Requirements

Power Input	120 VAC +/- 10%
Brown-out voltage	90 VAC
Line frequency	50/60 Hz

## **FCC Information**

FCC Identifier	108SDC-2423
FCC rules part number	15
Frequency range	24.000 to 24.250 GHz
Frequency tolerance	+/- 0.0005%
FCC Maximum power output	250 mV/m @ 3 m from transmit antenna

## Size and Weight

Height	Depth	Width	Weight
15"	12"	15"	10 pounds
38 cm	30 cm	38 cm	4.6 kg
Outdoor RF unit	, No Indoor Inter	face unit is rec	quired

## **Power Consumption**

Outdoor TX/RX 25 Watts Maximum per link

## **CONNECTORS AND CABLING**

Control cabling connector for RS422	Multi-pin connector mating connector furnished
Video cabling	RG-59/U or RG11/U (100% Shielded)
Video cable connectors	TNC
Power connection (110 VAC)	Six foot power cord with 3 prong plug

#### **POWER SUPPLY OPTIONS**

230 VAC 48 VDC 24 VDC, for Solar

Units are set to specified frequencies with switch. Spares: 1 Unit required for A Channels 1 unit required for B Channels

## FREOUENCIES: A ANTENNA

CHANNEL	Transmit	Receive
7	24.035	24.160
8	24.060	24.185
9	24.085	24.210

#### FREQUENCIES: B ANTENNA

CHANNEL	Transmit	Receive
7	24.160	24.035
8	24.185	24.060
9	24.210	24.085

For inquiries about our complete line of communication products "Made for Traffic" and your local distributor call:

# 800-426-0523 or 775-345-8000 Visit our website at www.sgdi.com

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