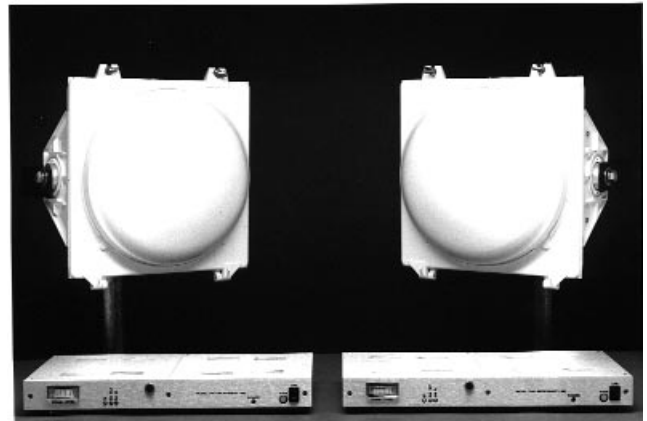


Microwave

MODEL 2323 MICROWAVE VIDEO, PTZ & DATA LINK

- ▲ Frequencies Crystal Controlled (Synthesized)
- ▲ NEMA Temperature Range
- ▲ Two Hour Installation Time
- ▲ Flexible – Two Antennas All Frequencies
- ▲ Low Cost – Fast Payback
- ▲ Low Maintenance – Simple, Compact & Trouble-Free
- ▲ Full Motion Video – Medium Haul Performance
- ▲ Dual Full Duplex Data Channels
- ▲ 2 Year Warranty



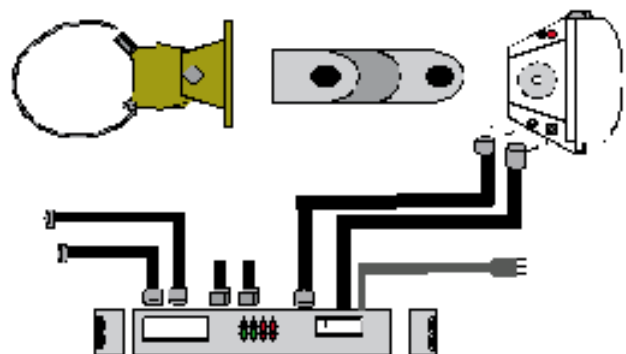
The GDI 2323 series millimeter wave radio is a versatile, simple, low cost alternative to a land-line video circuit.

If your requirements are for simplex or duplex video for NTSC or PAL with two full duplex data channels, the Model 2323 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 2323 video radio to be quicker, easier and more affordable.

Applications

- Point to point surveillance
- Video interconnection between several sites
- Last mile connections
- Fiber Optics to Microwave
- Twisted Pair Video Drivers to Microwave
- Video Loop Detectors to Microwave



Technical Summary

Frequency Range	21.2 to 23.6 GHz
Standard TX/RX Spacing	1200 MHz
Allocated Channel Bandwidth	50 MHz
Actual Occupied Bandwidth	Approximately 25 MHz
Modulation type	2 Level FSK (FM)
Transmission Configuration 2323-S	Simplex Video, dual duplex control channels
Transmission Configuration 2323-D	Duplex Video, dual duplex control channels
Control Channels are	RS422 Standard RS232 or RS485 Available

Transmitter Characteristics

RF Source	Oscillator/Multiplier/ Amplifier Type
Guaranteed power output	+ 17 dBm (minimum)
Power Control Option	7 steps down from max power out
Frequency Stability (-34 to +74 C)	+/- 0.001%
Tuning Range	4 Frequency Sets Allowed

Receiver Characteristics

Type (Dual Conversion Superhetrodyne)	2500 & 70 MHz
Noise Figure	5.5 dB Typical
Video Threshold for 45 dB S/N Ratio	- 80 dBm
Sub Carrier Threshold Camera to Monitor	- 80 dBm
Sub Carrier Threshold Monitor to Camera	- 83 dBm
Maximum Receiver Input (Damage will Occur at +5 dBm)	- 15 dBm

Antenna Characteristics

Type	Parabolic
Diameter	12.5 Inches (31.8 cm)
Polarization	Linear
Gain (22.4 GHz)	35 dB
Front to back ratio	42 dB
Beamwidth @ 3 dB points	3.2 Degrees

Environmental Characteristics

Ambient Temperature Range	- 34 to +74 Degrees C
Storage and Transportation	- 40 to + 80 Degrees C
Humidity	Up to 100%

Indoor Unit

Ambient Temperature Range	0 to +50 Degrees C
Storage and Transportation	- 40 to + 80 Degrees C
Humidity	Up to 95% AT +50° C

Humidity (Non-Condensing)

Input Voltage Requirements

Power Input	93 TO 265 VAC +/- 10%
Brown-out voltage	90 VAC
Line frequency	50/60 Hz

Power Consumption

Total Power Required	50 Watts Maximum per link (2 units)
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FCC Information

Emission Designator	25MOF8W
FCC rules part number	101
Frequency range	21.2 to 23.6 GHz
Frequency tolerance	+/- 0.001%
FCC Maximum power output	0.10 watts

Size and Weight

Height	Depth	Width	Weight
15"	12"	15"	10 pounds
38 cm	30 cm	38 cm	4.6 kg
Indoor interface Unit		19" Rack 2RU mounting (3.5" H)	

Customer Connectors & Cabling

Control cabling RS422	2 shielded Twisted Pair, # 22AWG
RS422 Connectors	DB9
Video cable	RG 59/U (75 ohm)
Video cable connectors	BNC
Power connection	Six foot power cord with 3 prong plug

Antenna to Interface

Coax	50 ohm (Belden 9914)
Coax connectors	N-TYPE
Power Cable	3 TWISTED PAIR 18AWG
Power Connector Antenna	AMP 7 Pin CMC
Power Connection Interface	Spade Lugs

Power Supply Options

48 VDC or 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

Frequencies ¹	A Antenna	B Antenna
CHANNEL	Transmit	Transmit
D	21.825	23.025
T	21.875	23.075
G	21.925	23.125
E	21.975	23.175

¹ 12 inch antenna limits use to these frequencies

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 E-mail traffic@sgdi.net

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