



Foxtech

VDC-48 Pro FDD+TDD Bi-directional Video/Data Transmission System

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Price Available Upon Inquiry

SKU: S240606

Weight: 16.00 KGS

Version: Required

- Standard Version
- Integrated Version
- Integrated Version II

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Description

The VDC-48 Pro is a self-developed TDD bi-directional video/data transmission system with a maximum transmission distance of 48KM that utilizes both uplink and downlink FDD methods for wireless transmission. The product features real-time interference detection, adaptive frequency selection, adaptive bit rate, automatic retransmission, and automatic power control. These functionalities significantly enhance its multipath and interference resistance, making it highly reliable, stable, and low-latency. It is ideal for applications such as inspection, and monitoring.

Feature:

- Asymmetric Transmission: Utilizes TDD+FDD for communication transmission.
- Long-Distance Transmission: Supports a maximum transmission distance of up to 48 km.
- High Bandwidth Transmission: Supports up to 16Mbps @ 10MHz.
- Automatic Relay Transmission: Supports automatic relay joining.
- Multiple Interface Design: Features dual Ethernet ports and four serial ports, supporting RS232/TTL/RS422/SBUS.
- Automatic Frequency Selection: Detects interference signals in real-time and selects the optimal frequency point.
- Automatic Retransmission: Automatically retransmits burst error data, improving data reliability.
- Adaptive Bit Rate: Automatically adjusts the channel modulation method based on real-time signal quality.
- Automatic Power Control: Adjusts transmission power for close distances to reduce power consumption.
- Automatic Antenna Selection: Selects the optimal antenna for transmission in real-time based on obstructions.
- Dynamic Uplink and Downlink Allocation: Automatically allocates uplink and downlink bandwidth based on actual data volume.
- Multiple System Coexistence: Supports simultaneous fixed-frequency use of multiple devices.
- Frequency Pairing: Allows frequency pairing through software configuration or hardware buttons.

Your Purchase Include:

Standard Version

- 2x VDC-48 Pro Video/Data Module
- 2x 2dBi Small fiberglass stick antenna
- 2x 1 m Small antenna extension cable
- 1x 6dBi/9dBi Fiberglass antenna
- 1x 3 m Fiberglass antenna extension cable
- 2x 30 cm J30J-25pin cable
- 1x 13dBi flat directional antenna
- 1x 4m Extension cable for directional antenna
- 2x Antenna stand

Airlink Integrated Version

- 1x Airlink ground station
- 4x Lemo wiring
- 2x 6dBi Medium White Antenna
- 1x Bracket + Clip
- 1x VDC-48 Pro Air Unit

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- 2x 1m Small Antenna Extension Cable
- 1x 30cm J30J Small Antenna Extension Cable
- 1x XT30 to XT60 Power Cable

AirLink Integrated Version II

- 1x AirLink-II Ground Station
- 1x Lemo-4PIN External Power Cord
- 1x Lemo-26PIN Data Cable
- 1x 1400~1460MHz & 1700~1760MHz 6dBi Fiberglass antenna
- 1x Mounting Bracket+Square clip
- 1x 4S Battery Pack (Optional)



VDC-48 Pro FDD+TDD Bi-directional Video/Data Transmission System

A TDD bi-directional video/data transmission system with a maximum transmission distance of 48 km that utilizes both uplink and downlink FDD methods for wireless transmission.



FDD Asymmetric Transmission
Uplink 1700~1760MHz
Downlink 1400~1460MHz



48 KM
Transmission Distance



≤10 ms
Transmission Delay



Automatic Frequency
Selection



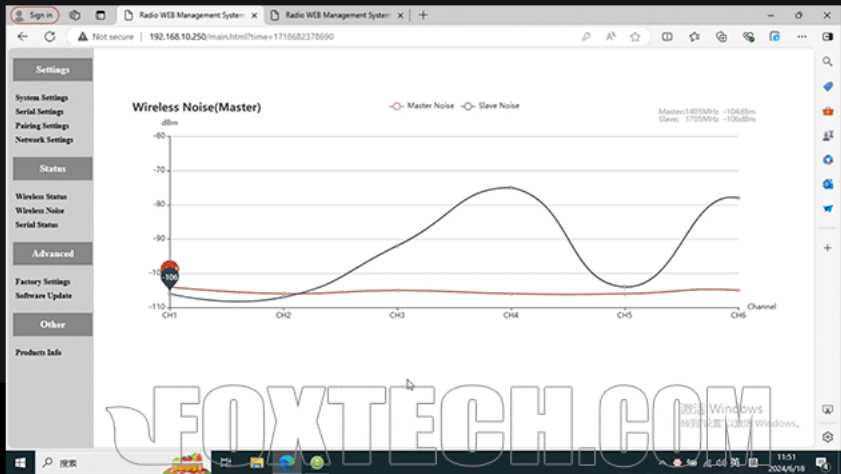
Real-time Interference
Detection



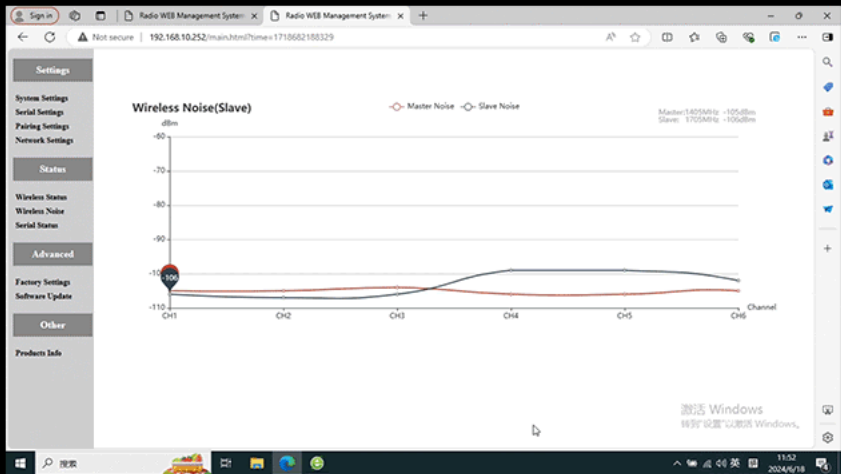
Automatic
Retransmission

Automatic Interference Detection & Avoidance

Dynamically selects the optimal frequency band, ensuring wide bandwidth frequency hopping for uninterrupted, high-quality communication.



Wireless Noise - Master



Wireless Noise - Slave

Web Management System

System Parameters

Operating Mode

Master

Band Width

10MHz

Network Address(ID)

4092

TX Power(dBm)

40

AES

OFF

AES Key

12345

Wireless Parameters

MCS

Adaptive

APC

ON

ANT

Adaptive

Frequency

Fixed:

Adaptive:

CH1 (TX1705/RX1405)

CH1 (TX1705/RX1405)

CH2 (TX1715/RX1415)

CH3 (TX1725/RX1425)

CH4 (TX1735/RX1435)

CH5 (TX1745/RX1445)

CH6 (TX1755/RX1455)

Setup

Frequency Point Selection
6 Frequency Points for You
to Select

Serial To Serial

Remote Serial

Local Serial

Baud Rate

Serial 1

Serial 1

115200

Serial 1

Serial 2

115200

Serial 2

Serial 3

115200

Serial 3

Serial 3

115200

The mapping relationship
between remote and local
serial ports can be flexibly
configured.

Network Settings

IP Address

192.168.10.250

Alternate IP Address

192.192.192.192

Remote IP Address


Setup

Standby IP

Versatile Applications




Application



Surveillance and Security

Cover large areas that are difficult or dangerous for human patrols, providing live feeds to control centers.

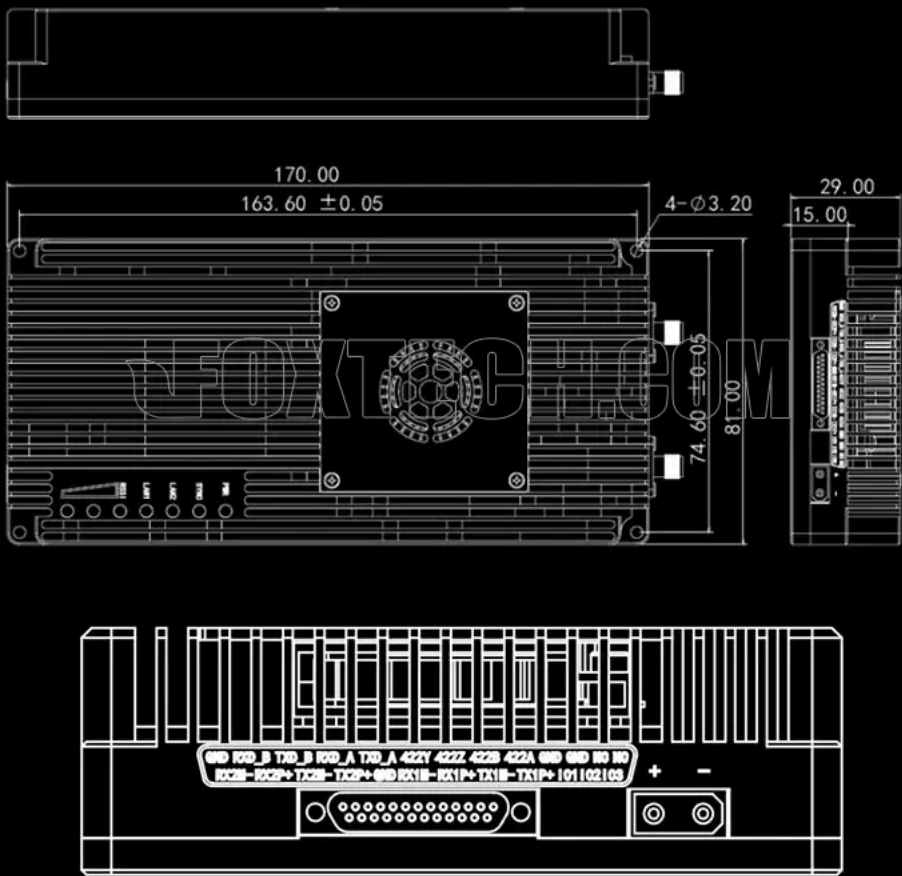


Search and Rescue Operations

To locate missing persons in remote or challenging terrains.

Standard Version

Unit:mm





2x VDC-48 Pro Video/Data
Module



2x J30J-25pin



1x All-in-one Ground Terminal
Antenna Kit

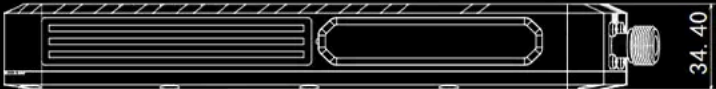


2x 2dBi Small Fiberglass
Antenna



2x Small Antenna
Extension Cable

Integrated Version



1x Air Unit Module



1x Air Unit J30J Wiring



4x Lemo Wiring



2x 2dBi Small Fiberglass
Antenna



2x Small Antenna
Extension Cable



1x Stand

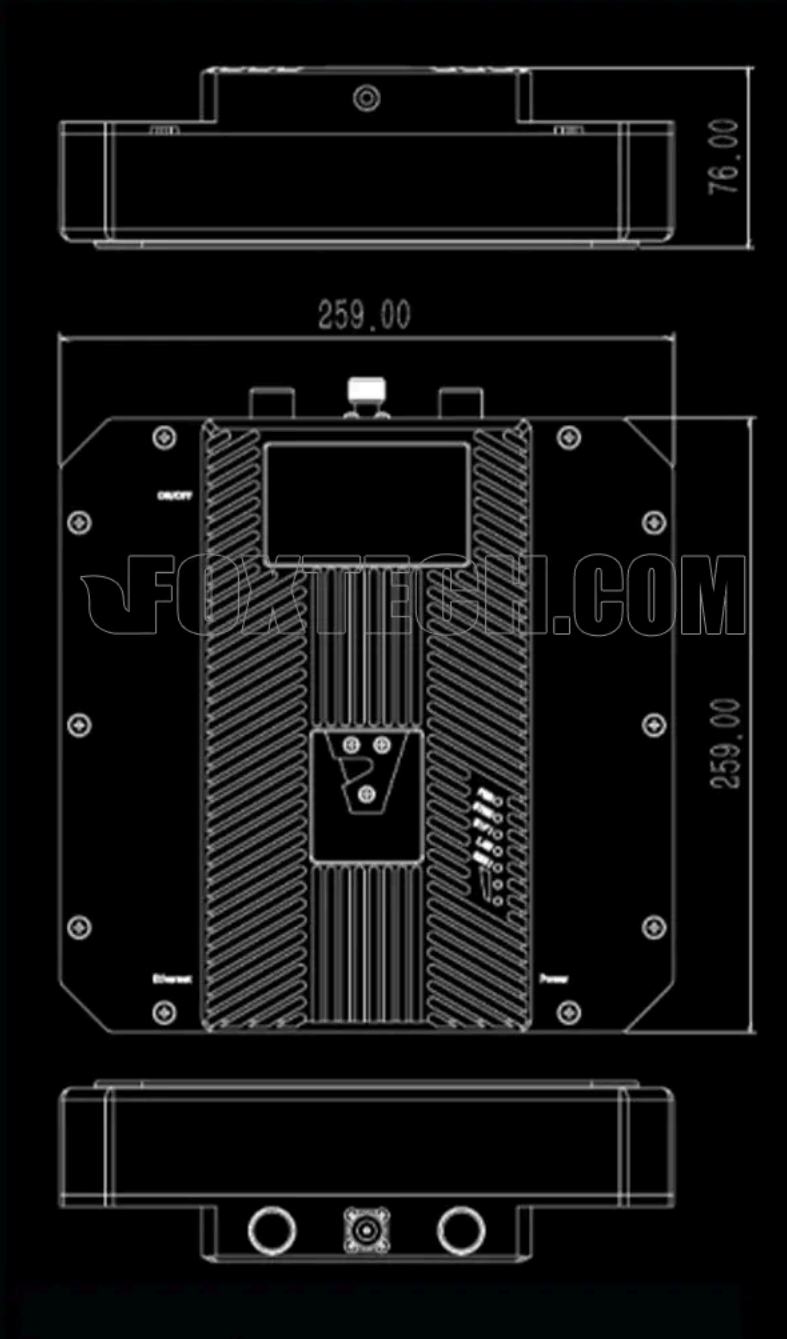


1x AirLink Module



2x 6dBi Fiberglass Antenna

Integrated Version II



		
1x Air Unit Module	1x Air Unit J30J Wiring	4x Lemo Wiring
		
2x 2.5dBi Small Fiberglass Antenna	2x Small Antenna Extension Cable	1x Stand
		
1x AirLink Module II	1x 6dBi Fiberglass Antenna	

Specification


Standard Version	Integrated Version	Integrated Version II
1400~1460MHz & 1700~1760MHz	1400~1460MHz & 1700~1760MHz	1400~1460MHz & 1700~1760MHz
2T2R	2T2R	2T2R
40dBm (10W)	40dBm (10W)	40dBm (10W)
Air-to-ground 48 km	Air-to-ground 48 km	Air-to-ground 48 km
10MHz	10MHz	10MHz
QPSK/16QAM	QPSK/16QAM	QPSK/16QAM
16Mbps@16QAM3/4	16Mbps@16QAM3/4	16.8Mbps@16QAM3/4
AES256	AES256	AES256
≤10ms	≤10ms	≤10ms
SMA *2	N Connector *2	N-Connector*1
XT30PW-M	Lemo Line	Lemo Line
100Mb Ethernet *2	100Mb Ethernet *1	100Mb Ethernet *1
TTL/RS232 *2	TTL/RS232 *2	TTL/RS232*2
RS422 *1	RS422 *1	RS422*1
SBUS/TTL *2	SBUS/TTL *2	SBUS/TTL *2
	WIFI *1	WIFI*1
≤ 66W@4Mbps(Air)	≤ 66W@4Mbps(Air)	≤ 66W@4Mbps(Air)
≤ 15W@1Mbps(Ground)	≤ 15W@1Mbps(Ground)	≤ 15W@1Mbps(Ground)
180*81*29 mm	250*150*34.4 mm	259*259*76 mm
415 g	Approx. 1.5 kg	Approx. 1.5 kg
DC22-30V, Typical Value 28V@3A	DC9-36V, Typical Value 24V	DC9-36V, Typical Value 24V
-40~+65℃	-40~+65℃	-40~+65℃





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VDLINK SN-40 TDD Video/Data Transmission System




Foxttech

VDLINK SN40 TDD Bi-directional Video/Data Transmission System

\$3,685.00 - \$4,827.00

★★★★★


CHOOSE OPTIONS



Foxttech

VDLINK OFDM TDD Bidirectional Video/Data Transmission System

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VDC

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