EXICOM

Exicom EX4400 : A 4 channel tactical video communication system has wide range of applications in military, paramilitary, law-enforcement, security and live media broadcasting. EX4400 can be configured in 4 separate transmitters at various locations for ground operations either as man-mobile or vehicle-mobile. It can also be used for air to ground or sea to ground communications in various applications. EX4400 uses COFDM modulation to enable reliable operation in difficult terrain & challenging environment. EX4400 is designed to withstand operation in harsh conditions like desert heat to Arctic cold, providing secure and highly dependable service over short or long radio paths.

COMPETITIVE ADVANTAGE

- Exicom's long history of reliable products
- Ease of operation
- A/V transmission while moving at high speed
- Designed for wide range & performance

APPLICATIONS

- Mobile video transmission
- Video broadcast
- Covert monitoring and surveillance
- Law-enforcement, military & border security

EX4400

ACTICAL VIDEO COMMUNICATION SYSTEM

HIGH PERFORMANCE

- High quality digital video processing
- High reliability & performance on range of environment
- COFDM for data reliability & mobile operations
- Range of UHF and microwave frequency bands
- 128bit AES encryption for security
- Diversity receiver for reliable & quality reception

LOW COST OF OWNERSHIP

- Durable/ High quality harness & casing
- Fast deployment
- Same transmitter and receiver units for different configurations



EX4400 Tactical Video Communication System

Features

- Four channel A/V simultaneous receiver
- In-built 4-CH A/V synchronous hard disk video recording
- MPEG-2/MP@ML/4:2:0 DVD decoding standard
- AES128 bit encryption •
- Panel configurable Channel parameters
- Bi-directional audio support* (optional)
- High definition image and Hi-Fi stereo output
- -96 dBm Sensitive receiver with diversity receiving -106dBm@1.25MHz
- Adjustable bandwidth to provide broadcast level quality
- Simultaneous Video Broadcast over IP
- Adjustable Frequency in 1MHz step
- Audio and video simultaneous for PAL and NTSC
- Transmitter in waterproof and dust-proof case
- NLOS range for up to 1.5 Km
- Battery Backup : Transmitter 2 hrs/batt. & Down link 3hrs/batt.

System Parameters

Frequency bands	300–2600 MHz (Other bands can be customized)
RF channel bandwidth	1.25/2.5 MHz or 6/7/8 MHz
Modulation type	COFDM / CDMA
Constellation	QPSK / 16QAM @ 1.25/2.5 MHZ QPSK / 16QAM / 64 QAM @6/7/8 MHz
GUI	1/4, 1/8, 1/16, 1/32 optional
Video Encode/Decode	MPEG-2 / MPEG-4
Carrier Mode	2k/8K
FEC	1/3, 2/3 @ 1.25 / 2.5 MHz1/2, 2/3, 3/4, 5/6, 7/8 @ 6/7/8 MHz
C/N	<u>></u> 28 dB @32 dBm
Encryption	AES-128 bit
Video Input	1~1.2 Vp-p@75
Video Resolution	720 x 576 (PAL) 720x480 (NTSC)
Video White Bar	650 ~ 720mV
Video Sync Amplitude	260 ~ 275 mV
Video Input	PAL/NTSC
Audio Input	Left / Right Channel, Stereo
RS-232 Control	Standard RS-232, Level 9600, 8 N 1
Delay	50mSec

Video Transmitter

Maximum transmit power 21 to 36 dBm, adjustable in 1dB steps

Audio

Frequency Range Receiving Sensitivity Transmission Module Step

475~479.950 MHz ≤ -110 dBm GFSK 50 Khz

Tactical Down Link

Recording

Viewing Play, Pause & Forward Video Format PAL/NTSC H.264 Video Encodina Resolution 1920 x 1080 Video Resolution D1, CIF, QCIF Video Frame rate Adjustable, standard PAL 25fps, NTSC 30fps 500GB Built-in, 1TB SATA HDD*(optional) Storage Device





Tactical Transmitter

Tactical 4 channel Down link

Tactical Video Communication System

Video Display

Monitor Size Aspect Ratio LCD Resolution **Display colors**

10.4 inch 4:3 TFT 640x480 16.2 M

Interface

Video 750hm Audio 6000hm single track **Receiver RF** 500hm N Type Socket **Transmitter RF** 500hm UHF Socket Audio Input Microphone 6.35mm, Mic 3.5mm USB Mountable USB Flash Disk Network 10/100Mbps RJ-45 type Connector **DC Power** Anton Mount **AC Power** 3-core power, IEC Socket

Power, Mechanical and Environmental

Working Tomporature	
Working Temperature Tactical Transmitter	-35°C to 65°C
Down Link	-30°C to 60 °C
Storage Temperature	
Tactical Transmitter	-40°C to 70°C
Down Link	-40°C to 80 °C
Power Supply Voltage	
Tactical Transmitter Down Link	12 – 16 VDC 10 – 12 VDC / 230VAC +5%
Down Link	10 - 12 VDC / 230VAC ±5%
Batteries	
Battery Transmitter	14.2V/8.2AH
Battery Down Link	14.2V/10AH
Current	

Current **Tactical Transmitter Down Link**

Transmitter Protection Transmitter Weight

<2.8 A @ 12.5 VDC <300mA/<3.5 A(Audio TX)@ 12.5 VDC

Dust-proof and rainproof 2.5 Kg[†]

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