

- Built-in voice scrambler
- Preselection for up to
 9 channels and their storage
 in memory
- Flashmode-addressed transmission of three-digit numerical code and selective (addressed) dialling
- Instantaneous erasure of preprogrammed data in case of imminent danger
- Keypad control from handset or transceiver control panel
- Data transmission at 2400 bps using internal modem
- Fill-gun programming
- Scanning
- POST (power-on self test)
- Semiduplex operation
- Detached operation by means of Remote Control Unit GB3088 for a range of at least 500-m using ordinary two-wire field
- Compatibility with most transceivers in use around the world
- Standard or 150-Hz subtone squelch









Description

XV3088 is a high-performance pouch radio that can be instantly redeployed as a long-duration patrol backpack and has logistic, tactical and cost advantages.

The heart of new integrated communication system is the high-performance lightweight Transceiver XV3088 that offers solution to all aspects of tactical communication. Up to 2320 channels (9 programmable), full data facility and an unparalleled simplicity of operation demonstrate latest technology. Its multirole characteristics are further enhanced by a carefully designed range of ancillaries producing an exceedingly cost-effective and logistically desirable system.

Mobile operation

XV3088 is upgraded to a complete vehicle communication system by means of Vehicle Mounting Frame KS3088 and Power Amplifier VV3088M/VV3088V with output power of 25 W or 50 W. The complete communication system is envisaged to be built into practically any military vehicle.



XV3088 The high-performance multirole combat radio

Antennas

The range of antennas available in-clude a low-profile antenna that allows discreet operation, 1.5-m whip antenna to increase range as well as long- wire antennas and antennas for mobile use. In case of considerable mismatch, eg antenna damage, the TX LED signals the error by blinking in red

Compact size

One of the smallest and lightest manpack radios at a size of just $83 \text{ mm} \times 205 \text{ mm} \times 252 \text{ mm}$ with battery pack attached. The rugged package is submersible and withstands harshest environmental and EMC conditions

VHF/FM-XX/S WHF/FM-XX/S WHF/FM-XX/S SEC S TX Y 0 CH | F | F | S RX SIG NO CALL PR NO CALL PR RY FOHDE&SCHWARZ

Whisper mode

Increased microphone sensivity for discreet operation in silent environment

Simplified operation

Clearly arranged keypad for point and shoot operation and clear over-ride mode

Secure transmission

Built-in voice scrambler provides digital voice encryption by sampling with 32-bit code, scrambling and transmission via the radio channel. The 10000 possible code combinations are entered by means of a fill gun

Selective calling of up to 99

subscribers

Selective dialling to desired subscrib-er and fast transmission of message by 3-digit numerical code

OIRUA

Three power stages

High, moderate and low (high only available with 25/50 W RF amplifier)

ADDR:

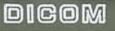
SQ 150











Two multifunction connec-

Providing both secure and fast data transmis-sion with 2400 bit/s as well as remote-control capabilities and an audio interface, the transceivers can be extended with accessories, such as handset, headset etc

A wide range of antennas is available for the portable transceiver set

Remote Control and Rebroadcast Box GB3088

allows remote control of XV3088, ie traffic monitoring, ringing and transmitter keying from a field telephone using two-wire cable Manpack Transceiver XV3088









Radio Data Modem GM3088 is designed for data transmission through XV3088 Transceiver

Mobile System XV3088 (XV3088C)

The basic unit is formed by the XV3088 Transceiver, built-in into various frames together with Power Amplifier VV3088M (VV3088V) 25 W (50 W)







XV3088 Transceiver

General data

Frequency range Channel spacing Number of working channels Effective audio frequency range

Channel selection

Transmission modes

Voice scrambling

Transmitter

Power output

Modulation Harmonics suppression

Receiver

Sensivity
AF output power
Squelch

Power supply

Nominal supply voltage Supply voltage range Period between charging

Other specifications

Operating temperature range Transceiver weight

Battery pack weight
Transceiver dimensions
with battery pack attached
Weight of complete set in
carrying bag with spare battery pack
Dimensions of complete set
in carrying bag
Waterproof

30.000 MHz to 87.975 MHz

25 kHz 2320

F3 mode 300 Hz to 3.4 kHz data transmission 150 Hz to 9 kHz

from handset or control-panel keypad

simplex or semiduplex telephony, data transmission of 1.2 kbps or

16 kbps

internal digital scrambler

nominal 5 W $\,$ (+1.5 dB/-1 dB) reduced 0.2 W $\,$ (±2 dB) frequency, max. shift 5.6 kHz

-60 dB

 $>\!\!0.5~\mu\text{V}$ at 12 dB SINAD adjustable, min. 200 mW into 4- $\!\Omega$ load standard or 150-Hz subtone

12 V/4 A NiCd battery pack 10 V to 15 V min. 14 hours at transmit/receive/ standby ratio of 1:1:10 and nominal output power of

-30 °C to +60 °C max. 2.7 kg (without batteries and accessories) max. 2.5 kg

83 mm x 205 mm x 252 mm

<10.9 kg

transmitter

250 mm \times 380 mm \times 450 mm up to 1 m depth

VV3088M (VV3088V) Power Amplifier

Transmitter

RF output power

reduced 0.2 W nominal 5 W

increased 25 W, 50 W (VV3088V)

Internal modem

PC interface Transmission speed via radio channel Data modulation RS-232-C

2400 bps FSK, 1200/2400 Hz

Power supply

Supply voltage

Supply voltage range Continuous transmission period (VV3088V) 10 to 33 V, 18 V to 33 V (VV3088V) unlimited under normal conditions, 2 hours at 50 °C, 20 min with VV3088V

from vehicle battery 12 V or 27 V

Power consumption (12 V/24 V)

Reception
Transmission 0.2 W
Transmission 5 W
Transmission 25 W
Transmission 50 W (VV3088V)

max. 0.5 A/0.5 A 1 A/0.6 A 2 A/1 A

-30 °C to +60 °C

10 A/5 A

max. 7 A

Other specifications

Operating temperature range
Weight
Dimensions

max. 3.9 kg 183 mm x 129 mm x 173 mm

Additional accessories (on request)

Mobile set charger Trickle charger Vehicle operation accessory Headset

AF, RF and antenna cable sets, cables for PC interconnection

Antennas

Vehicle antennas Log-periodic antenna Groundplane antenna Discone antenna

Military standards

XV3088 fulfills all relevant military

standards

Ordering information		
Transceiver Transceiver with Encryption Card	XV3088 XV3088C	6092.1507.02 6092.1559.02
Battery Pack	IB3088	6092.1659.02
Handset with Control	GA3088	6092.1707.02
1.5-m Whip Antenna 0.5-m Whip Antenna Hang-Up Antenna	HV3088L HV3088S HD3088	6092.1759.02 6092.1807.02 6092.1859.02
Standard Battery Charger Quick Charger	IC3088S IC3088R	6092.1959.02 6092.2003.02
Power Amplifier 25 W Power Amplifier 50 W	VV3088M VV3088V	6092.2103.02 6092.2155.02
Radio Modem	GM3088	6092.2255.02
Fill Gun	GP3088	6092.2303.02
Vehicle Mounting Frame, horizontal	KS3088H	6092.2355.02
Voice Encryption Unit	GN3088	6092.2455.02
Remote Control Unit	GB3088	6092.2503.02
Manpack Bag	MZ3088	6092.2603.02



