

# DICOM® RF2305 Manpack radio

Secure voice and data communication  
on tactical command level

Easy to operate in the most demanding  
battlefield conditions and low weight  
of the set.

- Range of up to 15 km
- Voice & data encryption
- Frequency hopping
- AES based TRANSEC/COMSEC
- IP data
- GPS position reporting system (PLI)
- Short text messages service (SMS)
- Repeater supported
- Ground-To-Air Communication (GTA)





## DICOM®RF2305 Manpack radio

The RF2305 is a manpack radio for communication at tactical command level. Manpack set is based on the RF23 EPM enhanced transceiver.

Compared to the handheld radio, the range of the manpack is increased by improving the antenna and antenna counterweight. The counterpoise consists of a conductive chassis with an antenna connector sewn into the bag, which also serves as a mechanical fixture designated for the whip antenna. The bag features main compartment and two side pockets for individual components of the set.

- increases the range up to 15 km
- maintains the complete RF23 radio functionality
- wide range of RF23 accessories supported
- easy to operate and handle
- low weight

### RF2305 set

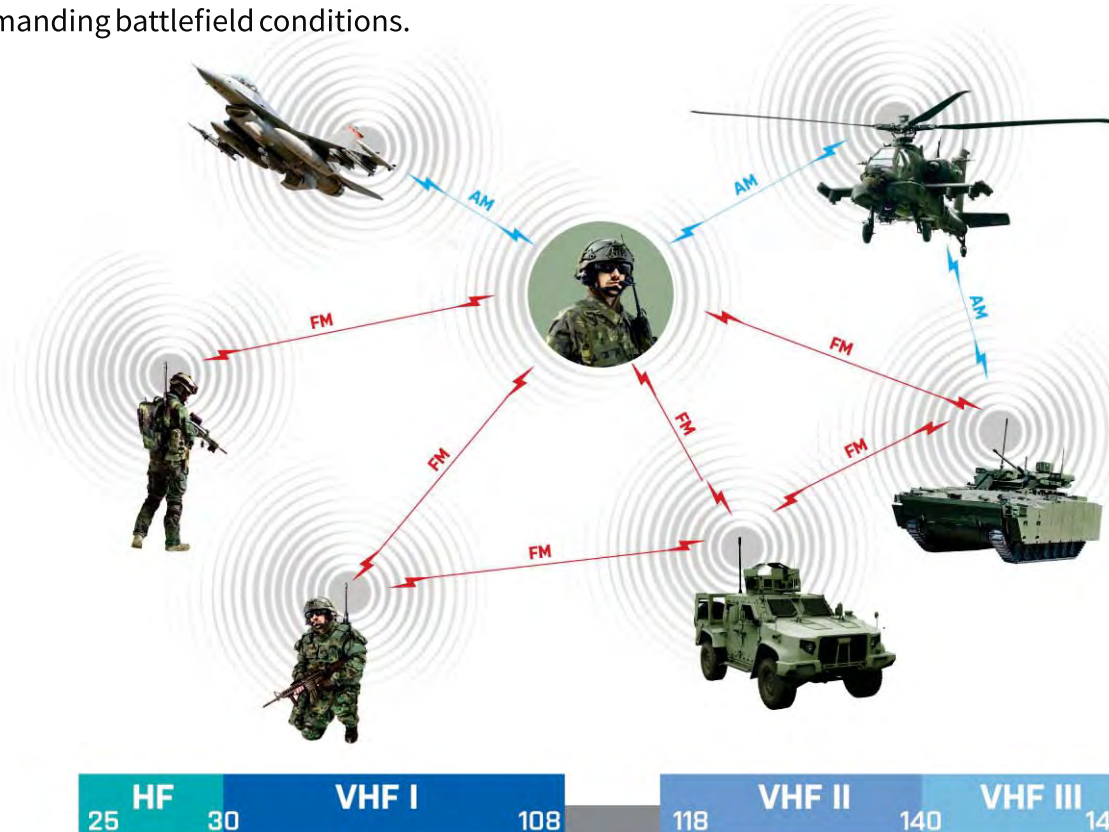
- bag with a conductive plate and the antenna connector
- RF23 radio
- 2.45 m antenna
- battery
- handset
- set of connecting cables



## The core of the system DICOM®RF23 EPM enhanced transceiver

- Voice & data encryption
- Frequency hopping
- AES based TRANSEC/COMSEC
- IP data
- GPS position reporting system (PLI)
- Short text messages service (SMS)
- Repeater supported
- Full backward compatibility with RF13/RF1350 System

RF23 enhanced multiband transceiver with increased resistance against radio-electronic warfare intended for squad/team, platoon and company operation is part of the RF20 tactical radios family. The radio communicates in several analog and digital waveforms, including frequency hopping. Secure voice and data communication is encrypted with AES algorithm with effective key length of 384 bits. AM modulation allows for direct communication with aircraft radios. Data communication complies with MIL-STD-188-220, providing IP data capability in MANET network structure. Position Location Information (PLI), automatically collected from the built-in G-Track position reporting system, can be easily transferred to BMS or other C2/C4 application. Compact dimensions, straightforward design and simple interface allows for easy operation in the most demanding battlefield conditions.





# RF2305 composition



## Technical parameters

|                             |                  |   |
|-----------------------------|------------------|---|
| Frequency range             |                  | 25 to 146 MHz   |
| Modulation type             |                  | FM, AM  |
| Channel spacing             |                  | 25 / 12.5 / 8.33 / 6.25 kHz                             |
| Transmission power          | FM               | 0.2/2/5 W   |
|                             | AM               | 0.1/1 W   |
| Battery life (1 : 1 : 10)   | LP1302           | 14 hours  |
|                             | LP20             | 26 hours  |
| Data capabilities           | MANET            | acc. MIL-STD-188-220<br>6 hops auto-relay<br>SLIP / PPP |
|                             | P2P              | 2.4 - 7.1 kbit/s  |
|                             | Synchronous data | 16 kbit/s   |
| Temperature range           |                  | -40 to +70 °C   |
| Immersion                   |                  | 1 m   |
| Environmental specification |                  | according to MIL-STD-810E                               |
| EMC                         |                  | according to MIL-STD-461E                               |
| Weight max.                 |                  | 4 kg  |

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