

# blackbox™

## 2-way radios



| General                            |   |                  |
|------------------------------------|---|------------------|
| Frequency Range                    |   |                  |
| RX                                 | 136~174MHz                                      | 400~470MHz       |
| TX                                 | 136~174MHz                                      | 400~470MHz       |
| Number of channels                 | 100   |                  |
| Operation mode                     | FM 16KφF3E (Wide mode)/ 11KφF3E (Narrow mode)   |                  |
| Channel Stepping                   | 5, 6.25, 8.33, 10, 12.5, 15, 20, 25, 30, 50KHz  |                  |
| Antenna Impedance                  | 50Ω   |                  |
| Working temperature                | -20 ~+60  |                  |
| Power Supply                       | 13.8V DC±15% (11.7~15.8V)                       |                  |
| Grounding Method                   | Negative ground                                 |                  |
| Current                            | Transmitter: about 9.5A                         |                  |
|                                    | Receiver: about 600mA(max.)                     |                  |
| Frequency Stability                | ±2.5ppm   |                  |
| Dimensions (W x H x D)             | 145 x 47 x 190 mm                               |                  |
| Weight                             | Approx. 1.2kg / 2.6lb                           |                  |
| TRANSMITTER                        |   |                  |
| Power Output                       |   |                  |
| High                               | 60W   | 50W              |
| Mid                                | 10W   |                  |
| Low                                | About 5W  |                  |
| Modulation                         | Reactance modulation                            |                  |
| Maximum frequency deviation        | Wide : ±5kHz                                    | Narrow : ±2.5kHz |
| Spurious emission                  | 60dB  |                  |
| Adjacent channel power             | Wide : 70dB                                     | Narrow : 60dB    |
| Noise and hum ratio                | Wide : 40dB                                     | Narrow : 36dB    |
| Microphone Impedance               | 1KΩ   |                  |
| RECEIVER                           |   |                  |
| Receiver circuitry                 | Double conversion superheterodyne               |                  |
| Intermediate Frequency (1st / 2nd) | 38.85MHz / 450kHz                               |                  |
| Sensitivity (12dB SINAD)           | Wide : 0.2μV or less    Narrow : 0.25μV or less |                  |
| Squelch Sensitivity                | 0.126μV or less                                 |                  |
| Adjacent channel selectivity       | Wide : 70dB                                     | Narrow : 60dB    |
| Intermodulation rejection ratio    | 65dB  |                  |
| Spurious and image rejection ratio | 70dB  |                  |
| Audio Output (8Ω, 10% distortion)  | 2W (10% distortion)                             |                  |

### Specifications



- Optional Field Programmability
- Alpha-Numeric Display
- Narrow and Wide Band option
- Alarm/Stun/2-Tone/5-Tone
- Conventional Network Scalability

- Includes:
- DTMF Microphone
- Power Cables
- Alarm Cable
- Mounting Bracket
- User Manual



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