

PROFESSIONAL
SERIES

blackbox™
mobile radios

Instantly use any freq
in these bands:
136-174 or 400-490 mhz !
NO PC REQUIRED!



- ▶ Public Safety Radio
- ▶ Easy Install
- ▶ **200 Channel Memory**
- ▶ High power: 40w UHF/55w VHF
- ▶ Optional Field Programmability
- ▶ Alpha-Numeric Display
- ▶ Narrow and Wide Band option
- ▶ Alarm/Stun/2-Tone/5-Tone
- ▶ Conventional Network Scalability

Package Includes: DTMF Microphone,
Power Cables, Mounting Bracket, User Manual.

- Tune it like a ham radio then write the frequency & other channel info to a memory.
- Wide band receive so you can scan local police, fire, ambulance, Air ambulance etc.
- Call landlines when cell phones don't work.
- Wide or narrow channel spacing.
- Works all ham repeaters on 2 meters(VHF) and 70cm (UHF) including IRLP nodes.
- Beep on and off, adjustable Time out timer, Scan type (timer or busy ch.), Auto power off.
- Burst tone, busy ch lockout, Burglar alarm.
- VFO tuning & scan, Memory scan/memory skip, Full program scan and search.
- Compaander function for audio enhancement in narrow mode.
- ANI automatic number identification.



Optional
Alarm
Cable



Specifications

General

Frequency Range	UHF:400-490MHz VHF: 136-174MHz
Number of Channels	200 channels
Channel Spacing	25K (Wide Band) 20K (Middle Band) 12.5K (Narrow Band)
Phase-locked Step	5KHz, 6.25KHz, 8.33KHz, 10KHz, 12.5KHz, 15KHz, 20KHz, 25KHz, 30KHz, 50KHz
Operating Voltage	13.8V DC $\pm$ 15%
Squelch	Carrier/CTCSS/DCS/5 Tone/2 Tone/DTMF
Frequency Stability	$\pm$ 2.5PPM
Operating Temperature	-20°C ~ +60°C
Dimensions (WxHxD)	145 (W) x 47 (H) x 190 (L)mm
Weight	about 1.2Kg

Receiver (ETSI EN 300 086 standard testing)

	Wide Band	Narrow Band
Sensitivity (12dB Sinad)	$\leq$ 0.25 μ V	$\leq$ 0.35 μ V
Adjacent Channel Selectivity	$\geq$ 70dB	$\geq$ 60dB
Intermodulation	$\geq$ 65dB	$\geq$ 60dB
Spurious Rejection	$\geq$ 70dB	$\geq$ 70dB
Audio Response	+1 ~ -3dB (0.3 ~ 3KHz)	+1 ~ -3dB (0.3 ~ 2.55KHz)
Hum & Noise	$\geq$ 45dB	$\geq$ 40dB
Audio Distortion	$\leq$ 5%	$\leq$ 5%
Audio Power Output	> 2W@10%	> 2W@10%

Transmitter (ETSI EN 300 086 standard testing)

	Wide Band	Narrow Band
Power Output	55W/25W/10W (VHF)	40W/25W/10W (UHF)
Modulation	16K Φ F3E	11K Φ F3E
Adjacent Channel Power	$\geq$ 70dB	$\geq$ 60dB
Hum & Noise	$\geq$ 40dB	$\geq$ 36dB
Spurious Emission	$\geq$ 60dB	$\geq$ 60dB
Audio Response	+1 ~ -3dB (0.3 ~ 3KHz)	+1 ~ -3dB (0.3 ~ 2.55KHz)
Audio Distortion	$\leq$ 5%	$\leq$ 5%

UHF: FCC I.D. # U7GBLACKBOXMU
VHF: FCC I.D. # U7GBLACKBOXMV



Data Sheet #141

