

Thank you for purchasing the **UX-97A/E** 1200 MHz BAND UNIT.

The unit adds 1200 MHz SSB, CW, FM and optional ATV mode operation capability to your IC-970A/E/H.

FOREWORD

The UX-97A/E allows you to operate in all modes on the 1200 MHz band. Moreover, by connecting an optional TV-970 ATV ADAPTER, you can enjoy amateur television operation.

Please refer to the IC-970A/E/H instruction manual for installation and operation; refer to the TV-970 instruction manual for ATV operation.

The cables to the TV IF input and output jacks should be fastened using the supplied wire tie.

After installation, the supplied stickers should be attached as below:

[1200MHz ANT] : Near the 1200 MHz antenna connector.

[1200MHz ATV] : Near the TV IF input and output jacks.

There are 2 jacks for 1200 MHz ATV operation that accept an optional TV-970.

Red jack : TV IF input from the TV-970

Black jack : TV IF output to the TV-970

SPECIFICATIONS

Stated specifications are the IC-970A/E/H's when the UX-97A/E is installed.

■ GENERAL

- Frequency coverage : 1240 ~ 1300 MHz
- Mode : SSB (A3J), CW (A1), FM (F3), ATV (A5, A9) (with optional TV-970)
- Antenna impedance : 50 Ω (unbalanced)
- Frequency stability : ± 3 ppm (0°C ~ +50°C; +32°F ~ +122°F)
- Power supply requirement : 13.8 V ± 15%
- Current drain :

Transmit	1 W output	4.5 A
	10 W output	8.0 A
Receive	Squelched	3.0 A
	Max. audio output	3.5 A
- Dimensions : 123(W) x 57(H) x 250.5(D) mm (UX-97A/E only)
- Weight (UX-97A/E only) : 1.8 kg; 4.0 lb

■ TRANSMITTER

- Output power : 1.5 ~ 10 W
- Modulation system : SSB Balanced modulation
FM Variable reactance frequency modulation
- Spurious emissions : More than 50 dB below peak output power
- Carrier suppression : More than 40 dB below peak output power
- Unwanted sideband : More than 40 dB below peak output power

■ RECEIVER

- Receive system : SSB, CW Double-conversion superheterodyne
FM Triple-conversion superheterodyne

- Intermediate frequencies :

	MAIN band		SUB band	
	SSB, FM	CW	SSB, FM	CW
1st	131.6500	131.6491	131.7500	131.7491
2nd	10.8500	10.8491	10.9500	10.9491
3rd	0.4550*	—	0.4500*	—

* FM mode only.

Unit : MHz

- Sensitivity : SSB, CW Less than 0.11 μV for 10 dB S/N
FM Less than 0.18 μV for 12 dB SINAD
- Squelch sensitivity (threshold) : SSB Less than 1.0 μV
FM Less than 0.18 μV
- Selectivity :

SSB, CW	FM
More than 2.3 kHz/ - 6 dB	More than 15 kHz/ - 6 dB
Less than 4.2 kHz/ - 60 dB	More than 30 kHz/ - 60 dB

- Spurious and image rejection : More than 50 dB
- Audio output power : More than 1.5 W with an 8 Ω load
- RIT variable range : ± 9.99 kHz
- Notch variable range : More than ± 1.2 kHz
- Notch attenuation : More than 25 dB

All stated specifications are subject to change without notice or obligation.

BLOCK DIAGRAM

