Thank you for purchasing the UX-98 2400 MHz BAND UNIT.

The unit adds 2400 MHz SSB, CW, FM and optional ATV mode operation capability to your IC-970A/E/H.

FOREWORD

The UX-98 allows you to operate in all modes on the 2400 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 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.

INSTALLATION

1. Remove top and bottom covers. 
   (Refer to p. 37 of the IC-970A/E/H instruction manual.)

2. Remove 2 screws, then remove this antenna hole cover.

3. Install the UX-98 with the supplied radiation sheet; then, tighten the supplied 6 screws.

4. Remove 1 screw, then remove the TVJ hole cover.

5. Attach the JACK board, then tighten the board using the screw removed from the TVJ hole cover.

6. Connect the coaxial cable (marked red) to J4 on the UX-98.

7. Connect the coaxial cable (not marked) to J5 on the UX-98.

8. Connect P78 (12-pin plug from the UX-98) to J9 on the LOGIC unit.

9. Connect P77 (DC power cable) to P1 of the UX-98.

10. Connect P4 (11-pin plug from the UX-98) to J4 on the LOGIC unit.

11. Connect the coaxial cable (P3) from the UX-98 to J3 on the OSC unit.

12. Replace the top and bottom covers.

NOTE: An optional CR-293 HIGH-STABILITY CRYSTAL UNIT should be installed when using the transceiver with the UX-98 2400 MHz BAND UNIT.

- FREQUENCY STABILITY

IC-970 standard: ± 3 ppm (0°C ~ +50°C; 32°F ~ +122°F)
With CR-293: ± 0.5 ppm (0°C ~ +60°C; 32°F ~ +140°F)
### SPECIFICATIONS

**1. GENERAL**
- Frequency coverage: 2400 - 2450 MHz
- Mode: A1(CW), A3(SSB), F3(FM)
- Modulation system: A5(A9(ATV))
- Antenna impedance: 50 Ω Unbalanced
- Frequency stability: ±3 ppm
- Power supply requirement: 13.8 V DC ±15% negative ground
- Current drain (U9:89 only): 3.5 A Receive max. output, 4.5 A Transmit
- Dimensions: 223(W) x 57(H) x 265.5(D) mm
- Weight: 1.8 kg / 4.0 lb

**2. TRANSMITTER**
- Output power: HIGH 1.0 W, LOW 0.2 W
- Modulation system:
  - FM: Variable reactance frequency modulation
  - SSB: Balanced modulation
  - ATV: Low power modulation (Video) Variable reactance frequency modulation (Audio)
- Max. frequency deviation: ±5.0 kHz
- Spurious emissions: More than 40 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

**3. RECEIVER**
- Sensitivity:
  - SSB/CW: Less than 0.11 μV for 10 dB S/N
  - FM: Less than 0.2 μV for 12 dB SINAD
- Receive system:
  - SSB/CW: Double-conversion superheterodyne
  - FM: Triple-conversion superheterodyne
- IF frequencies:
  - FM: 131.65MHz, 10.56MHz, 45.5kHz
  - SSB: 131.65MHz, 10.56MHz
  - CW: 131.6491MHz, 10.5491MHz
- Selectivity:
  - SSB/CW: More than 2.3 kHz/6-dB
  - FM: Less than 4.2 kHz/60-dB
  - More than 15.0 kHz/6-dB
  - Less than 30.0 kHz/60-dB
- Squelch sensitivity:
  - SSB/CW: Less than 1.0 μV
  - FM: Less than 1.0 μV
- Spurious rejection ratio: More than 45 dB
- Audio output power: More than 1.5 W
- Audio output impedance: 8 Ω
- RIT variable range: ±9.98 kHz
- NOTCH variable range: More than ±1.2 kHz
- NOTCH attenuation: More than 25 dB

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