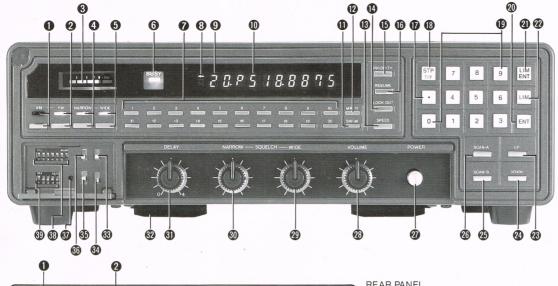


# UNINTERRUPTED FREQUENCY COVERAGE 100 kHz — 1.4 GHz WITH RF CONVERTERS

SCANNING MONITOR RECEIVER

• ULTRA SUPER FEATURIZED SX-400 SERIES EXPANDS FREQUENCY COVERAGE FROM 100 KHz TO 1.4 GHz UP WITH RF CONVERTERS (OPTIONAL). ● ADDITIONAL MEMORY CHANNELS MORE THAN 20, RECORD FREQUENCY, TIME AND VOICE, HI-SPEED REPROGRAM OF 20 CHANNEL MEMORIES, AND REMOTE CONTROL OF ALL SX-400'S FUNCTIONS WITH DATA INTERFACE (OPTIONAL). ● BIRDIE-CANCEL CIRCUIT BUILT IN. ● 12 BLOCK CHANNEL SPACE SWITCHES.

# SX-400 26~520 MHz General Coverage Scanner



# ••• 1

- 1) Power Supply Connector
- (2) Data Interface Connector
- (3) External Antenna/RF Converter Connector
- (4) RF Attenuator
- (5) 455 kHz Output Jack
- (6) 10.7 MHz Output Jack
- (7) Tuning Voltage Control Connector for RF Converter
- (8) Recording Output Terminal
- (9) Aux. Control Terminal
- (10) External Speaker/Headphone Terminal

#### FRONT PANEL

- (1) AM Selector Switch/Indicator Lamp
- (2) FM Selector Switch/Indicator Lamp
- (3) Signal Meter
- (4) Narrow FM IF Filter Bandwidth Selector Switch/Indicator
- (5) Wide FM IF Filter Bandwidth Selector Switch/Indicator
- (6) Busy Indicator
- (7) 20 Channel Memory Keys
- (8) Lockout Indicator
- (9) Memory Channel Display
- (10) Frequency Display
- (11) Scan Write/Minute Adjustment Key (12) Memory Write/Hour Adjustment Key
- (13) Speed Change Switch
- (14) Lockout Key
- (15) Priority Key
- (16) Resume Key
- 17) Decimal (.) Key
- (18) Stop/Time, Frequency Change Switch
- (19) 0~9 Frequency Selector Keys
- (20) Frequency Entry Key
- (21) Limit Entry Key (22) Limit Search ON/OFF Switch
- (23) Search UP Key (24) Search DOWN Key
- (25) Scan-B Key
- (26) Scan-A Key
- (27) Power ON/OFF Switch
- (28) Volume Control
- (29) Wide Squelch Control
- (30) Narrow Squelch Control
- (31) Delay Control
- (32) Stand
- (33) Auto Noise Limiter Switch
- (34) Mute ON/OFF Switch
- (35) Dimmer Control Switch
- (36) Stop Mode Selector Switch
- (37) Memory Reset Switch
- (38) VHF 7 Band Channel Space Selector Switches
- (39) UHF 5 Band Channel Space Selector Switches

#### 10 MAJOR MERITS OF SX-400 -

- WIDE FREQUENCY COVERAGE 26~520 MHz General Coverage Scanning Monitor Receiver, AM/FM Change Mode Switch, Stop Mode Switch (Carrier and Voice, Voice only) on front panel.
- EXPANSIBLE FREQUENCY COVERAGE Optional RF Converters expand 100 kHz~1.4 GHz UP.
- DATA INTERFACE Optional Data Interface Model RC-4000 for additional memory channels more than 20, record frequency, time and voice. Hi-speed reprogram of 20 channel memories. AND remote control of all SX-400 functions with DATA INTERFACE.
- MOMENTARY MEMORY RECALL One-touch, momentary recall of frequency and modulation (AM or FM) on any memory channel.
- BIRDIE-FREE SEARCH BFS (Birdie-Free Search) Circuit cancels all of the hirdies

- CHANNEL SPACE SWITCHES For Hi-Fi reception, setting switches for VHF 7 bands (5 or 6.25 kHz step) UHF 5 bands (10 or 12.5 KHz step) on front panel.
- PRIORITY Samples channel as priority frequently, automatically switches to channel 1 in any operation mode.
- MUTING CIRCUIT Carrier noise free and clear voice reception.
- DUAL SQUELCH CONTROL Individual squelch control for FM WIDE and AM/FM NARROW, no readjustment necessary with mode changed (Narrow/Wide).
- AUTOMATIC NOISE LIMITER/FM IF FILTER BANDWIDTH SWITCH- Automatic noise limiter (ANL) circuit incorporated to minimize AM Pulse noise. Narrow/Wide FM IF Filter Bandwidth switch for FM/TV Broadcasts.

□ SPECIFICATIONS ————————————————————————————————————						
	- SPECIFICAI	10113	6. Selectivity	FM 60dB at ±15kHz	13. Search Speed	Fast 10 channel/sec.
-	1. Type	AM-FM	•	AM 60 dB at ±10 kHz		Slow 5 channel/sec.
	2. Frequency Range VHF 26 MHz ~ 299.990000 MHz		7. Squelch Threshold	FM Within 1.0 μV	14. Delay Time 0~4 sec. variable	
1		UHF 300 MHz ~ 520.000000 MHz		AM Within 2.0 μV	15. Memory Channel	s 20 channel
-	<ol><li>Sensitivity</li></ol>	VHF FM (S/N = 12dB) $0.5 \mu V$	8. Scan Stop Sens Less than 2 µV 16. Clock Error Less than			Less than ±10 sec.
-		AM (S/N = 10 dB) $1.0 \mu V$	9. Center Detector ±4~±7kHz		17. Antenna Impedance 50~70Ω	
-		UHF FM (S/N = 12dB) $0.5 \mu V$			18. Power Supply DC 13.8V	
-		AM (S/N = 10 dB) $2.0 \mu V$				Impedance $4 \sim 8 \Omega$
-					20. Dimensions	
	<ol><li>Image Rejection</li></ol>	VHF 50 dB	12. Scan Speed	Fast 8 channel/sec.	21. Weight	3.5 kg (exclusing AC adaptor)
		LIHE 40 dB		Slow 1 channel/sec		

## RC-4000 DATA INTERFACE

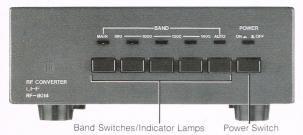
#### Control of SX-400 series Scanner and RF Converters through Computer

● Direct system for NEC 8801A computer. ● High-Speed Reprogramming of 20 channels. ● Scan of unlimited channels stored in computer. ● Record of Frequencies and Time of signals received. ● Automatic Control of Bands and Modes of RF converters and ACB-300.

#### **OPTIONAL for SX-400 SERIES SYSTEM**

#### RF-8014 DOWN CONVERTER

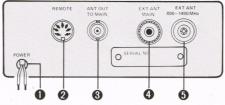
800 MHz ~ 1.4 GHz RF converter for SX-400



Bands: • MAIN (to cover 26~520 MHz with SX-400) • 800 MHz ~ 1.0 GHz • 1.0 GHz ~ 1.2 GHz •1.2 GHz ~1.4 GHz • AUTO (Automatic control of RF-8014 with an external computer, etc.)

• Frequencies shown in SX-400 display: 500 MHz lower between 800 MHz ~ 1.0 GHz, 700 MHz lower between 1~1.2 GHz, 900 MHz lower between 1.2~1.4 GHz. ● Individual Band Switches and LED Indicaters. • Current Drain: 250 mA (approx.) • Accessories: 1 BNC/M-adapter, 1

Cable with BNC terminals. • Dimensions: W. 148 × H. 51 × D. 225 (mm)



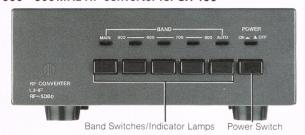
O SERIAL

#### REAR PANEL

- (1) Power Lead
- (2) Remote Connector
- (3) ANT. Out Connector (4) EXT. ANT. Connector (for 26 ~ 520 MHz)
- (5) EXT. ANT. Connector (for 800 ~ 1,400 MHz)

#### RF-5080 DOWN CONVERTER

500~800 MHz RF converter for SX-400



Bands: •MAIN (to cover 26-520MHz with SX-400) •500 ~600MHz •600 ~700MHz •700 ~ 800 MHz • AUTO (Automatic control of RF-5080 with an external computer, etc.) ● Frequencies shown in SX-400 display: 300 MHz lower between 500 ~ 600 MHz, 400 MHz lower between 600 ~ 700 MHz, 500 MHz lower between 700 ~ 800 MHz. ● Individual Band Switches and LED Indicaters. • Current Drain: 250 mA (approx.) • Accessories: 1 BNC/M-adapter, 1 Cable with

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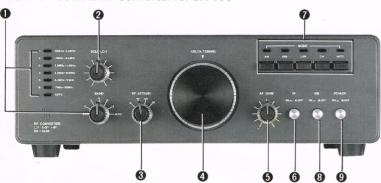
BNC terminals. • Dimensions: W. 148 × H.51 × D.225 (mm)



- (1) Power Lead
- (2) Remote Connector
- (3) ANT. Out Connector
- (4) EXT. ANT. Connector (for 26 ~ 520 MHz)
- (5) EXT. ANT. Connector (for 500 ~ 800 MHz)

#### RF-1030 UP CONVERTER

100 KHz ~ 30 MHz RF converter for SX-400



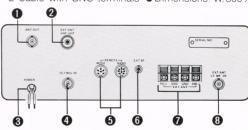
FRONT PANEL (1) Band Switch/Indicator Lamps (2) Squelch Control (3) RF Attenuator

- (4) Delta Tuning (5) AF Gain Control (6) IF ON/OFF Switch
- (7) Mode Switches/Indicator Lamps (8) Noise Blanker (9) Power Switch

 Bands: (1) 100 KHz ~ 1 MHz, (2) 1~2 MHz, (3) 2~4 MHz, (4) 4~8 MHz. (5) 8~17 MHz, (6) 17~30 MHz•AUTO (Automatic conrol of 6 bands of RF-1030 with an external computer, etc.) • Frequencies shown in SX-400 display: 50 MHz higher on all bands than the frequencies received. ● Individual Mode Switches and LED Indicaters: AM, USB, LSB, CW, AUTO • CW filter (optional) required for CW reception • AUTO — Automatic Control of modes of RF-1030 with an external computer, etc. 

Band Switch and LED Band Indicaters. Squelch Control, RF Att., AF Gain Control, Delta Tuning, IF ON/OFF Switch, NB (Noise Blanker) Switch. 

◆ Current Drain: 1A (approx.) \* Power Supply Unit P-1A (optional) required for RF-1030. Accessories: 1BNC/M-adapter, 2 Cable with BNC terminals • Dimensions: W.300 × H.90 × D.233 (mm)



#### REAR PANEL

- 1) ANT. Out Connector (2) EXT. ANT. Connector
  - (for 26 ~ 520 MHz)
  - (3) Power Lead
  - (4) 10.7 MHz In Connector
  - (5) Remote Connectors
  - (6) EXT. SP Jack

  - Antenna Terminal
  - (8) EXT. ANT. Connector (for 100 kHz ~ 30 MHz)

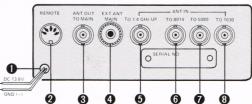
### **ACB-300** ANTENNA CONTROL BOX



#### Manual and Automatic antenna control system for SX-400 series RF converters

• Individual Band Switches and LED Indicaters: 1030, 5080, 8014, 1.4 GHz UP (for reception of 1.4GHz above) AUTO (Automatic control of antennas for RF-1030, RF-5080, RF-8014 and for MAIN scanner) • Current Drain: 50 mA (approx.) • Accessories: 1 Cable with BNC terminals

Dimensions: W. 148 × H. 51 × D. 225 (mm)



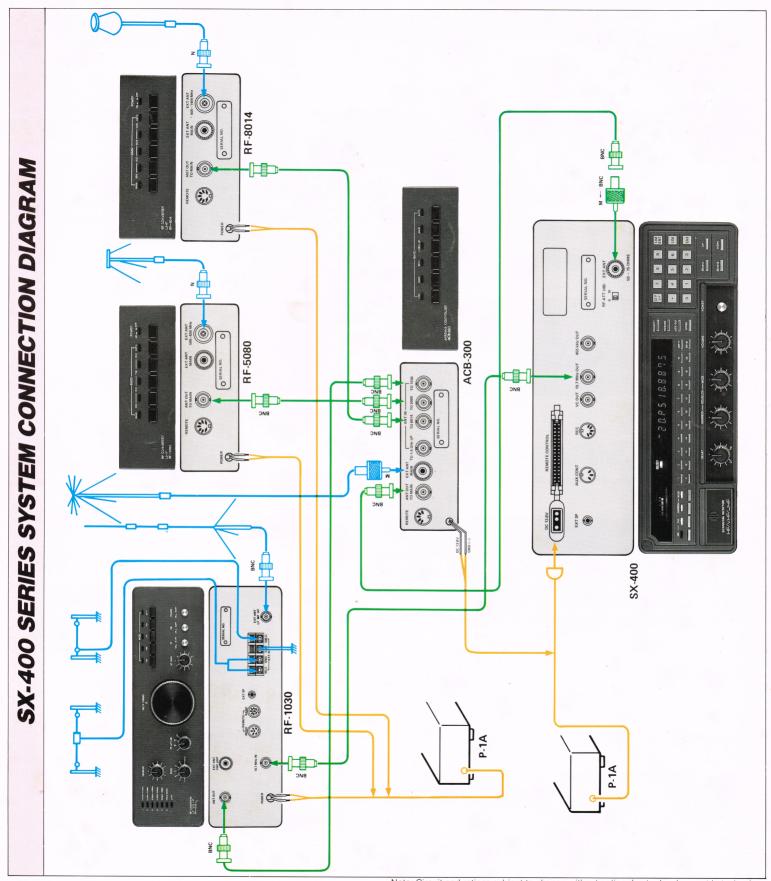
#### REAR PANEL

- ) Power Lead
- (2) Remote Connector
- (3) ANT. Out to Main Connector
- (4) EXT. ANT. Main Connector
- (5) to 1.4 GHz Up Connector
- (6) to 8014 Connector
- (7) to 5080 Connector
- (8) to 1030 Connector

# P-1A REGULATED POWER SUPPLY UNIT

- 1A AC 120 V (220 V, 240 V, 100 V available) to DC 13.8 V
- Dimensions:  $\dot{W}.90 \times H.60 \times D.135$  (mm)





# **J.I.L.** JAPAN INDUSTRIES CO., LTD.

20-17, 1-chome, Jinnan, Shibuya-ku, Tokyo, Japan Tel: (03) 462-0466 Telex: J24519

# USA CORPORATION J.I.C.L. – L.A. CORPORATION

17120 Edwards Rd., Cerritos, Ca. 90701, USA Tel: (213) 926-6727 Telex: 551588

Note: Circuit and ratings subject to change without notice due to development in technology.

#### **SOLE AGENT**

VICOM (N.Z.) LTD. 18 RAROA ROAD P.O. BOX 31009 LOWER HUTT. PH. 697-625 TELEX: 3334