GRE GENERAL RESEARCH OF ELECTRONICS, INC.

TEL: 813-5439-3611 FAX: 813-5439-3644 SHIBA NO.3 AMEREX BLDG. 3-12-17 MITA, MINATO-KU TOKYO, JAPAN 108

Rev'd: APR. 24, 1998 Tokyo: DEC. 16, 1997

Reference No. 97029

S P E C I F I C A T I O N S

SUBJECT: VHF/UHF PROGRAMMABLE AM/FM HAND-HELD SCANNING RECEIVER

RP-6140

1. GENERAL

-1 Programmable channel: 400 channels (40 channels x 10 banks)

10 Limit search banks
40 Monitor channels
10 Priority channels
7 WX frequencies

17 Pre-programmed bands search

-2 Receiving system : PLL synthesizer triple conversion superheterodyne

1st IF 257.5MHz: The 1st Local OSC frequency for

VHF and UHF Low/T Band employs upper side of receiving frequency range : The 1st Local OSC frequency for UHF High Band employs lower side of

receiving frequency range

2nd IF 21.4MHz : The 2nd Local OSC frequency employs

upper side of 1st IF

3rd IF 455kHz : The 3rd Local OSC frequency employs

lower side of 2nd IF

-3 Receiving wave mode: Narrow FM (Business, communication, ham radio)

AM (Aircraft)

| -4 | Frequ | ency range | <u>Freq.</u> | Step Mode (Default) |
|----|-------|-----------------------------|---|--|
| | 4-1) | Frequency step: and mode | 29.0000- 54.0000MHz 108.0000-136.9750MHz 137.0000-174.0000MHz 380.0000-512.0000MHz 806.0000-824.0000MHz 849.0000-869.0000MHz 894.0000-960.0000MHz | |
| | 4-2) | Band search : | | 36, 144-148, 148-174, 380-384, 851-856, 856-866, 866-869, 952-960MHz |
| | 4-3) | wx : | 162. 400, 162. 425, 162. 450, 162. 550MHz | 162. 475, 162. 500, 162. 525, |

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-5 Scanning rate : 25 channels/sec.

-6 Search rate : 50 steps/sec.

-7 Frequency and mode : LCD with back-lighting

display

-8 Zeromatic : Activates during search mode

-9 Audio output : 240mW nominal

-10 Speaker : Built-in 36mm. 8 ohms Dynamic speaker

-11 Operating voltage : 9V DC, 6 "AA" cells

-12 External power and : 9V DC (200mA)

charge voltage

-13 Dimension : Approx. 63 (W) x 45 (D) x 150 (H) mm

-14 Weight : Approx. 260g without antenna and batteries

-15 Accessory : Rubber antenna, AC-DC adapter, Belt clip, Owner's manual

and Frequencies guide

-16 Memory backup : Capacitor

| <u>ELECTRICAL</u> | | <u>Nominal</u> <u>Limit</u> |
|--|--|--|
| -1 Frequency coverage | : VHF Low VHF Aircraft VHF High UHF Low/T UHF High UHF High UHF High | $29 \sim 54.0000 \text{MHz}$ $108 \sim 136.9750 \text{MHz}$ $137 \sim 174.0000 \text{MHz}$ $380 \sim 512.0000 \text{MHz}$ $806 \sim 824.0000 \text{MHz}$ $849.0000 \sim 869.0000 \text{MHz}$ $894.0000 \sim 960.0000 \text{MHz}$ |
| Except cellular band | 1: 824. 0125-848. 9875/869. 0 | 125-893. 9875MHz |
| -2 Sensitivity FM: (S+N)/N=20dB DEV.: 3kHz at 1kHz | : VHF Low VHF Aircraft VHF High UHF Low/T UHF High | $\begin{array}{cccc} 1 \ \mu \ V & 2 \ \mu \ V \\ 1 \ \mu \ V & 2 \ \mu \ V \\ 1 \ \mu \ V & 2 \ \mu \ V \\ 1 \ \mu \ V & 2 \ \mu \ V \\ 2 \ \mu \ V & 4 \ \mu \ V \end{array}$ |
| AM : (S+N)/N=20dB MOD.: 60% at 1kHz | VHF Low VHF Aircraft VHF High UHF Low/T UHF High | $\begin{array}{cccc} 2 \; \mu \; V & & 5 \; \mu \; V \\ 2 \; \mu \; V & & 5 \; \mu \; V \\ 2 \; \mu \; V & & 5 \; \mu \; V \\ 2 \; \mu \; V & & 5 \; \mu \; V \\ 2 \; \mu \; V & & 5 \; \mu \; V \\ 4 \; \mu \; V & & 10 \; \mu \; V \end{array}$ |

| -3 | Image ratio 1st IF image 2nd IF image | | VHF Low at 40MHz Aircraft at 124MHz VHF High at 154MHz UHF Low at 450MHz UHF High at 860MHz VHF High at 154MHz | Nominal 50dB 50dB 50dB 60dB 40dB 60dB | <u>Limit</u> t Specified |
|-----|---|---|---|---|--------------------------------------|
| -4 | Squelch sensitivity (Band of Threshold Tight (S+N)/N Tight (S+N)/N | : | er) FM and AM FM AM | 1 μ V 25dB 20dB | 10 μ V 15dB 10dB |
| -5 | Selectivity | : | -6dB -50dB | ± 10kHz ± 18kHz | \pm 14kHz \pm 25kHz |
| -6 | Spurious rejection (Except primary image) | : | at 154MHz (FM) | 40dB | 30dB |
| -7 | IF rejection | : | 257.5MHz at 154MHz 21.4MHz at 154MHz | 50dB 100dB | 40dB 80dB |
| -8 | Acceptable radio frequency displacement | : | EIA RS-204-D | ±6kHz | ±3kHz |
| -9 | Signal to noise ratio AM and FM RF input 100μV DEV. 3kHz at 1kHz MOD. 60% at 1kHz | : | 29. 000- 54. 000MHz 108. 000-136. 975MHz 137. 000-174. 000MHz 380. 000-512. 000MHz 806. 000-960. 000MHz | 40dB 40dB 40dB 35dB 35dB | 30dB 30dB 30dB 25dB 25dB |
| -10 | Residual noise (Vol. Min., Squelched) | : | | 1 m V | 3mV |
| -11 | Scanning rate | : | 25 channels/s | sec. 22~28 c | hannels/sec. |
| -12 | Search rate | : | 50 step | os/sec. 45~5 | 5 steps/sec. |
| -13 | Priority sampling | ; | | 2sec. | 1∼3sec. |
| -14 | Scan delay time | : | | 2sec. | 1∼3sec. |
| -15 | Audio max. power | : | RF input $100\mu\mathrm{V}$ at $154\mathrm{MHz}$ | 300mW | 220mW |
| -16 | Audio output (T. H. D. 10%) (8 ohms R Load, 1kHz) | : | RF input $100\mu\mathrm{V}$ at $154\mathrm{MHz}$ | 240mW | 180mW |
| -17 | T. H. D. at 50mW | : | RF input $100\mu\mathrm{V}$ at $154\mathrm{MHz}$ | 3% | 8% |
| -18 | Audio frequency response at -6dB | : | RF input 100μV at 154MHz | 300Hz 2. OkHz | 200-400Hz 1. 5k-3kHz |

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Nominal Limit

-19 Birdies and step frequency: Under discussion

when search

-20 Current drain at 9 Volts : Squelched at 154MHz 80mA 100mA

-21 Charging current : 65mA 50mA

Note: This specification is obtained AC 120V with model 5-2413A power supply

without the scanner on after ten hours.

-22 Memory hold time : 10 Hours 1 Hour

-23 Intermediate frequency : 1st 257.5MHz

2nd 21.4MHz 3rd 455kHz

-24 Filter : Monolithic crystal filter for 21.4MHz

Ceramic filter for 455kHz

-25 Antenna impedance : 50 ohms

-26 Temperature range : Test to specification between : $\pm 18^{\circ} \text{C} + 35^{\circ} \text{C}$

Operate (Need not meet spec.) : -10°C~+60°C

-27 LOW BATT indicator : 5.5V 5.5 ± 0.5 V

3. OPERATING CONTROLS AND CONNECTIONS

- -1 Volume control with power switch
- -2 Squelch control
- -3 Keyboard (30 Keys)
- -4 7 digits frequency display by LCD
- -5 3 digits channel indicator by LCD
- -6 Indicator: ▶, ◀, SCAN, MAN (MANUAL), SRCH, BANK, PROG. CH, DLY, AM, FM, L/O (LOCK-OUT), PRI (PRIORITY), MEM, Weather Icon, AUTO, Key Icon, P (PRIORITY), duPL (duplicate), chFuLL, ALL-OFF, AC (ACTIVE), -d- (direct), L (LIMIT), b (band) and Error by LCD with back light
- -7 BNC type antenna connector
- -8 Earphone jack (D=3.5mm stereo)
- -9 External power jack and charge jack
- -10 Key lock (keyboard)
- -11 Battery compartment for 6 "AA" cells (User service)
- -12 Reset switch

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4. FEATURES

- -1 400 memory channels
- -2 10 banks for channel grouping
- -3 10 Limit search banks
- -4 17 pre-programmed bands search
- -5 40 monitor temporary memories
- -6 400 channels automatic scanning for VHF to UHF band [cleared channels (000,000 freq.) are not scan]
- -7 Weather Icon calls the programmed weather frequencies
- -8 25 channels/sec. scanning rate and 50 steps/sec. searching rate
- -9 Automatic memory function of receiving frequencies
- -10 Shows alarm for preventing duplicate frequencies
- -11 Lock-out frequencies (maximum 200 frequencies on search mode)
- -12 Built-in 10 priority channels
- -13 Built-in electrical channel lock-out circuit
- -14 Lock out channel review and lock-out frequencies review
- -15 Built-in electrical scan delay circuit
- -16 Change the direction at the manual, scan and searching by ▶ (up) or ◀ (down)
- -17 Zeromatic tuning system
- -18 Direct access to over 32,000 frequencies
- -19 Manual selection for channel
- -20 Sort all the frequencies within the bank in the ascending or descending order
- -21 Moving frequencies from banks to monitor memory
- -22 Deleting a frequency from a channel or monitor memory
- -23 Deleting frequencies from locked-out within a bank
- -24 Deleting all frequencies form channels within a bank
- -25 10 digit display for channel and frequency with all function indicators
- -26 LCD back-lighting
- -27 Earphone jcak (D=3.5mm stereo)
- -28 BNC antenna connector
- -29 Crystal filter for 21.4MHz 2nd IF and Ceramic filter for 455kHz 3rd IF section
- -30 Regulated DC power supply circuit
- -31 Built-in dynamic speaker
- -32 Automatic switching for AM or FM reception
- -33 Changeable for AM or FM reception
- -34 Built-in low BATT indicate circuit
- -35 Built-in power save circuit
- -36 Belt clip attached

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General Research of Electronics Inc., Scanning Receiver

FCC ID: ADVRP-6140

2.0 System Test Configuration

2.1 Justification

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst case emissions.

For the measurements, the EUT is attached to a cardboard box (if necessary) and placed on the wooden turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). The EUT is wired to transmit full power without modulation.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Detector function is in peak mode. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance if measured at a closer distance..

2.2 EUT Exercising Software

For emissions testing, the units were setup to receive continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

General Research of Electronics Inc., Scanning Receiver

FCC ID: ADVRP-6140

- 2.3 Support Equipment List and Description
- a) The FCC ID's for all equipment used in the tested system (included inserted cards, which have grants) are:

| Item# | Description | Model No. | Serial No. | FCC ID |
|-------|------------------------------|-----------|------------|--------|
| 1 | Radio Shack AC Power Adapter | 273-1662 | 9615 | N/A |
| 2 | Sony Headphones | N/A | N/A | N/A |

b) Equipment Setup Block Diagram



| | | F = With Ferrite |
|---|------------|------------------|
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| ** = No ferrites on video cable | | |
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2.4 Equipment Modification

Any modifications installed previous to testing by General Research of Electronics Inc. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Inchcape Testing Services.

General Research of Electronics Inc., Scanning Receiver

FCC ID: ADVRP-6140

3.0 Emission Results

AC line conducted emission measurements were performed from 0.45 MHz to 30 MHz. Analyzer resolution is 10 kHz or greater.

Radiated emission measurements were performed from 30 MHz to 5000 MHz. Analyzer resolution is 100 kHz or greater for 30 MHz to 1000 MHz, 1 MHz for > 1000 MHz.

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

FCC ID: ADVRP-6140

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG + DF$$

where

 $FS = Field Strength in dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

DF = Distance Factor

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:-

$$FS = RR + LF$$

where FS = Field Strength in
$$dB\mu V/m$$

RR = RA - AG in $dB\mu V$
LF = CF + AF + DF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V}$$
 DF = 0 dB
 $AF = 7.4 \text{ dB}$ RR = 23.0 dB μ V
 $CF = 1.6 \text{ dB}$ LF = 9.0 dB
 $AG = 29.0 \text{ dB}$
 $FS = RR + LF$
 $FS = 23 + 9 = 32 \text{ dB}\mu\text{V/m}$

Level in $\mu V/m$ = Common Antilogarithm [(32 dB $\mu V/m$)/20] = 39.8 $\mu V/m$

General Research of Electronics Inc., Scanning Receiver

FCC ID: ADVRP-6140

3.3 Radiated Emission Data

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement: Passed by 5.6 dB

INTERTEK TESTING SERVICES

Company:

General Research of Electronics, Inc.

EUT:

Portable Scanning Reciever

Model:

RP-6140

Test Mode:

Normal

Project #:

J98016158

Date of Test: 5/29/98

Test Site #: 2

Engineer:

Ollie Moyrong C.M

FCC Part 15.109 Class B Radiated Emissions

| Tuned | L.O. | Antenna | Antenna | Reading | Antenna | Preamp | Cable | Corrected | Limit | Margin |
|-------------|-----------|----------|---------------------|-------------|-------------|--------|-------|-------------|----------|--------------|
| | Frequency | Location | Polarization | | Factor | | Loss | Reading | At 3 m | (47) |
| (MHz) | (MHz) | (m) | (H=0/V=1) | (dBuV) | (dB/m) | (dB) | (dB) | dBuV/m | (dBuV/m) | (dB) |
| 29,000 | 286,500 | 3.0 | 1 | 39.5 | 14.1 | -28.2 | 3.1 | 28.4 | 46.0 | -17.6 |
| 39.500 | 297.000 | 3.0 | 0 | 37.1 | 14.6 | -28.2 | 3.3 | 26.7 | 46.0 | -19.3 |
| 54.000 | 311.500 | 3.0 | 1 | 38.2 | 15.5 | -28.2 | 3.6 | 29.1 | 46.0 | -16.9 |
| 108.000 | 365.500 | 3.0 | 1 | 48.7 | 15.1 | -28.0 | 4.5 | 40.3 | 46.0 | -5 .7 |
| 122.500 | 380,000 | 3.0 | 1 | 48.6 | 15.4 | -28.0 | 4.5 | 40,4 | 46.0 | -5 .6 |
| 136.975 | 394,475 | 3.0 | 1 | 43.5 | 15.8 | -28.0 | 4.5 | 35,8 | 46.0 | -10.2 |
| 137.000 | 394.500 | 3.0 | 1 | 43.4 | 15.8 | -28.0 | 4.5 | 35.7 | 46.0 | -10.3 |
| 154.000 | 411,500 | 3.0 | 0 | 44.7 | 16.5 | -27.8 | 4.5 | 37.8 | 46.0 | -8.2 |
| 174.000 | 431.500 | 3.0 | 1 | 46.5 | 16.2 | -27.8 | 4.5 | 39.4 | 46.0 | - 6.6 |
| 380.000 | 637.500 | 3.0 | 1 | 36.0 | 21.6 | -27.8 | 5.3 | 35.1 | 46.0 | -10.9 |
| 440,000 | 697,500 | 3.0 | 1 | 38.8 | 22.5 | -28.0 | 5.6 | 38.9 | 46.0 | -7.1 |
| 512.000 | 769,500 | 3.0 | 0 | 39.2 | 22.2 | -28.0 | 5.8 | 39.2 | 46.0 | -6.8 |
| 806.000 | 552,000 | 3.0 | 1 | 38.9 | 17.7 | -27.6 | 5.0 | 34.1 | 46.0 | -11.9 |
| 815.000 | 557,500 | 3.0 | 1 | 39.1 | 17.9 | -27.6 | 5.1 | 34.5 | 46.0 | -11.5 |
| 824.000 | 564,000 | 3.0 | 1 | 39.0 | 18.2 | -27.6 | 5.1 | 34.8 | 46.0 | -11.2 |
| 849.000 | 591.515 | 3.0 | 1 | 38.0 | 19.2 | -27.6 | 5.2 | 34.8 | 46.0 | -11.2 |
| 859,000 | 601,500 | 3.0 | 1 | 37.7 | 19.4 | -27.4 | 5.2 | 34.9 | 46.0 | -11.1 |
| 869,000 | 611,500 | 3.0 | 1 | 37.8 | 19.6 | -27.4 | 5,3 | 35.3 | 46.0 | -10.7 |
| 894,000 | 636,500 | 3.0 | 1 | 35.2 | 21.6 | -27.4 | 5,4 | 34.8 | 46.0 | -11.2 |
| 926,000 | 668,500 | 3.0 | 0 | 35.2 | 20.8 | -27.9 | 5.6 | 33.7 | 46.0 | -12.3 |
| 960,000 | 702.500 | 3.0 | 1 | 35.9 | 22.7 | -28.1 | 5.7 | 36.2 | 46.0 | -9.8 |
| , , , , , , | | | | | | | | | | |
| 29.000 | 278.900 | 3.0 | 1 | 46.1 | 13.9 | -28.2 | 3.1 | 34.8 | 46.0 | -11.2 |
| 806.000 | 275,400 | 3.0 | 1 | 45.6 | 13.7 | -27.6 | 2.6 | 34.4 | 46.0 | -11.6 |
| 815.300 | 236.100 | 3.0 | 1 | 44.4 | 11.9 | -27.6 | 2.4 | 31.2 | 46.0 | -14.8 |
| 820.750 | 238.600 | 3.0 | 1 | 46.2 | 12.0 | -27.6 | 2.4 | 33.0 | 46.0 | -13.0 |

Note: Negative signs (-) in the Margin column signify levels below the limit. Readings proceeded with a '*' are Quasi-Peak measurements.

All other readings are Peak measurements.

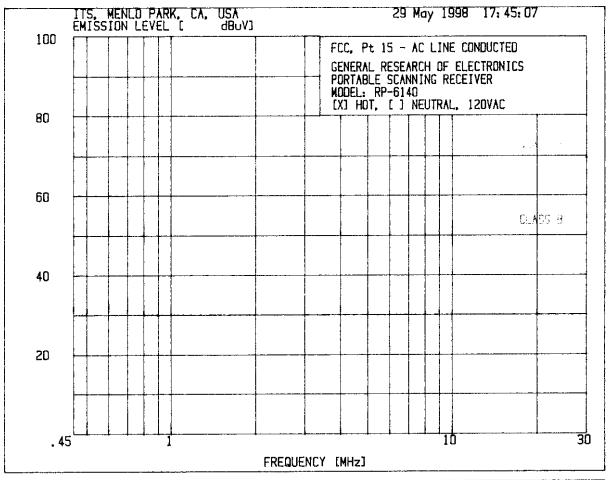
General Research of Electronics Inc., Scanning Receiver

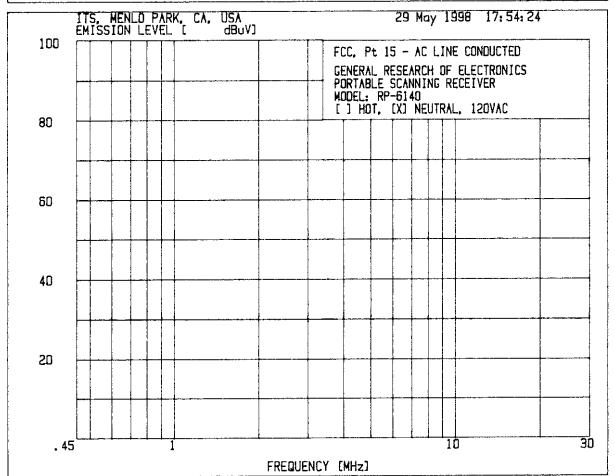
FCC ID: ADVRP-6140

3.5 Conducted Emission Data

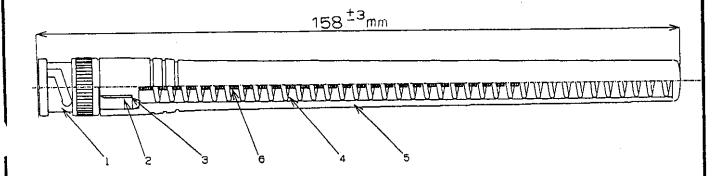
The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement: Passed by 14.0 dB





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General Research of Electronics Inc., Scanning Receiver

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5.0 Antenna Requirement

The antenna is affixed to the EUT using a unique connector which allows for replacement of a broken antenna, EUT does use a standard antenna jack or electrical connector.

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6.0 **Equipment Photographs**

Photographs of the EUT are attached.