

SPECIFICATION

ISSUED : 2005.7.7

REVISED:

SCANNING RECEIVER MODEL : AE69H (UB334A)

GENERAL

1. Band Coverage : See followings

2. Frequency Range

Conventional Mode :

Band Plan 1	12 Bands				
[Range]			[Step]		[Mode]
25.0000 to 29.9950	MHz	5	kHz		FM
30.0000 to 79.9875	MHz	12.5	kHz		FM
80.0000 to 82.9900	MHz	10	kHz		FM
83.0000 to 87.2625	MHz	12.5	kHz		FM
138.0000 to 157.9875	MHz	12.5	kHz		FM
158.0000 to 160.5900	MHz	10	kHz		FM
160.6000 to 162.5875	MHz	12.5	kHz		FM
162.6000 to 173.9900	MHz	10	kHz		FM
406.0000 to 439.99375	MHz	6.25	kHz		FM
440.0000 to 465.9950	MHz	5	kHz		FM
466.0000 to 469.9900	MHz	10	kHz		FM
470.0000 to 512.0000	MHz	6.25	kHz		FM

Band Plan 2 (=Default Setting)	11 Bands				
[Range]			[Step]		[Mode]
25.0000 to 84.0100	MHz	5	kHz		FM
84.0150 to 87.2550	MHz	20	kHz		FM
137.0000 to 143.9950	MHz	5	kHz		FM
144.0000 to 145.9875	MHz	12.5	kHz		FM
146.0000 to 155.9900	MHz	10	kHz		FM
156.0000 to 162.0250	MHz	12.5	kHz		FM
162.0300 to 173.9900	MHz	10	kHz		FM
406.0000 to 439.99375	MHz	6.25	kHz		FM
440.0000 to 449.99375	MHz	6.25	kHz		FM
450.0000 to 469.9900	MHz	10	kHz		FM
470.0000 to 512.0000	MHz	6.25	kHz		FM

Band Plan 3	7 Bands				
[Range]			[Step]		[Mode]
25.0000 to 87.2650	MHz	5	kHz		FM
138.0000 to 157.9950	MHz	5	kHz		FM
158.0000 to 173.9950	MHz	5	kHz		FM
406.0000 to 439.99375	MHz	6.25	kHz		FM
440.0000 to 465.99375	MHz	6.25	kHz		FM
466.0000 to 469.99375	MHz	6.25	kHz		FM
470.0000 to 512.0000	MHz	6.25	kHz		FM

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- 3. Memory : Programmable Channels : 80 CH
Search Skip Memory frequencies : 50
- 4. Step Size : 5/ 6.25 / 10 / 12.5 / 20 kHz
- 5. Display : LCD with Back Light (Color: Amber)

Some of these icons will not be used for this model.



6. Keys (PROGRAM & OPERATION): Total 17 Keys

- [1] : Numeric "1"
Set Priority Scan Mode (Function Mode)
- [2] : Numeric "2"
Channel UP (Hold Mode)
- [3] : Numeric "3"
- [4] : Numeric "4"
- [5] : Numeric "5"
Set Delay (Function Mode)
- [6] : Numeric "6"
Set the search programming (Function Mode)
- [7] : Numeric "7"
- [8] : Numeric "8"
Channel DOWN (Hold Mode)
- [9] : Numeric "9"
- [0] : Numeric "0"
Channel Lock Out (Function Mode)
- [.] : Decimal Key and Clear Key
- [E] : Enter
Program Mode (Function Mode)

REVISION STATUS

[HOLD] : Direct Channel Access
 [SCAN] : Start Scan Mode
 Start Search Mode (Function Mode)
 [LIGHT] : LCD back light on/off
 Key lock on/off (Function Mode)
 [FUNC] : Set Function Mode
 [PWR] : Power on/off

7. Controls/Switches : Volume Control
 Squelch Control
8. External Jacks : ANT. Jack : BNC Type
 Phone Jack : 3.5φ (Stereo Type)
9. Internal Speaker : 8 ohm, 1.0 W Max. (32φ)
10. Power Requirements : 2 x AA Size Standard Batteries 3.0V DC
 2 x AA Size Ni-MH Batteries 2.4V DC
11. Operating TEMP. : -20°C ~ +60°C
12. Storage TEMP. : -30°C ~ +60°C
13. Size (mm) : 68 (W) x 31.5 (D) x 115 (H) (Without Antenna, knob, clip & other projections)
14. Weight : 165 g (without Antenna & Battery)
15. Accessories : Rubber Antenna
 Belt Clip
 Owner's Manual
16. Heterodyne System
- 1st Heterodyne
- 25.0000 ~ 173.995 MHz : Upper Heterodyne 1st IF 380.6050-380.7000 MHz
- 406.0000 ~ 512.000 MHz : Upper Heterodyne 1st IF 380.60625-380.7000 MHz
- 2nd Heterodyne
- ALL Bands : Lower Heterodyne 2nd IF 21.3000MHz
- 3rd Heterodyne
- ALL Bands : Lower Heterodyne 3rd IF 450kHz
17. Filter
- 380.70MHz : SAW Filter
- 21.30MHz : Monolithic Crystal Filter
- 450kHz : Ceramic Filter (BW±10kHz)

REVISION STATUS

MEASUREMENT CONDITIONS

- 1. Power Source : 3.0V DC at Battery Jack
- 2. Antenna Impedance : 50 ohm
- 3. Test Temperature : +25 ± 5°C
- 4. Modulation Frequency : 1kHz
- 5. Deviation : FM ± 3kHz Dev.
- 6. Mean Signal Input Level : 1mV
- 7. Audio Output Load : 8 Ω Resistive Load
- 8. Standard Ref. Audio Output : 50mW (0.632 Vrms)

<u>ITEM</u>		<u>UNIT</u>	<u>NOMINAL</u>	<u>LIMIT</u>
1. Sensitivity (12dB SINAD)				
VHF Low Band				
(FM)	25.005 MHz	μV	0.3	0.8 Max
(FM)	54.050 MHz	μV	0.3	0.8 Max
(FM)	86.275 MHz	μV	0.3	0.8 Max
VHF High Band				
(FM)	138.150 MHz	μV	0.3	1.0 Max
(FM)	162.400 MHz	μV	0.3	1.0 Max
(FM)	173.220 MHz	μV	0.3	1.0 Max
UHF Band				
(FM)	406.875 MHz	μV	0.4	1.2 Max
(FM)	453.250 MHz	μV	0.4	1.2 Max
(FM)	511.9125MHz	μV	0.4	1.2 Max
2. Threshold Squelch (Manual)				
VHF Low Band (FM)	54.050 MHz	μV	0.3	1.3 Max
VHF High Band (FM)	162.400 MHz	μV	0.3	1.6 Max
UHF Band (FM)	453.250 MHz	μV	0.3	2.5 Max
3. Tight Squelch (Manual) (S+N)/N				
VHF Low Band (FM)	54.050 MHz	dB	25	15 Min
VHF High Band (FM)	162.400 MHz	dB	25	15 Min
UHF Band (FM)	453.250 MHz	dB	25	15 Min
4. Hum & Noise				
VHF Low Band (FM)	54.050 MHz	dB	39	30 Min
VHF High Band (FM)	162.400 MHz	dB	39	30 Min
UHF Band (FM)	453.250 MHz	dB	39	25 Min
5. Audio Frequency Response -6dB				
(FM)	162.400 MHz	Low	Hz	220
		High	Hz	2100
				100~ 350
				1300~3000

REVISION STATUS

<u>ITEM</u>	<u>UNIT</u>	<u>NOMINAL</u>	<u>LIMIT</u>
6. Audio Output Power (at 8Ω/Int.Speaker, (FM) 162.400 MHz) Max. Output Power	mW	400	200 Min
(at 32Ω/Stereo-Headphone, (FM) 162.400MHz) Max. Output Power	mW	35	15~60
(at 64Ω/Earphone, (FM) 162.400 MHz) Max. Output Power	mW	7	3~16
7. Distortion at 50mW Output Power (FM) 162.400 MHz	%	1.5	8 Max
8. Power Consumption @162.400 MHz, Manual Mode at Squelched (Light: Off)	mA DC	90	150 Max
at full output (Light: Off)	mA DC	290	350 Max
9. Residual Noise @ Volume.:MAX SQ: Close (FM) 162.400 MHz	mV	0.6	2 Max
10. Scan Rate at Test Frequency	CH/Sec	40	25 Min
11. Search Rate at Test Frequency (28.5~29.5MHz)	STEP/Sec	140	50 Min
12. Acceptable Radio Frequency Displacement (EIA RS-204-D) (FM) 162.400 MHz	kHz	±6	±3 Min
13. IF Rejection (FM) 162.400 MHz (IF=380.700 MHz)	dB	90	50 Min
14. Battery Low turn on voltage	V	2.30	2.15~2.45
15. Auto power off voltage	V	2.15	2.0~2.3

REVISION STATUS
