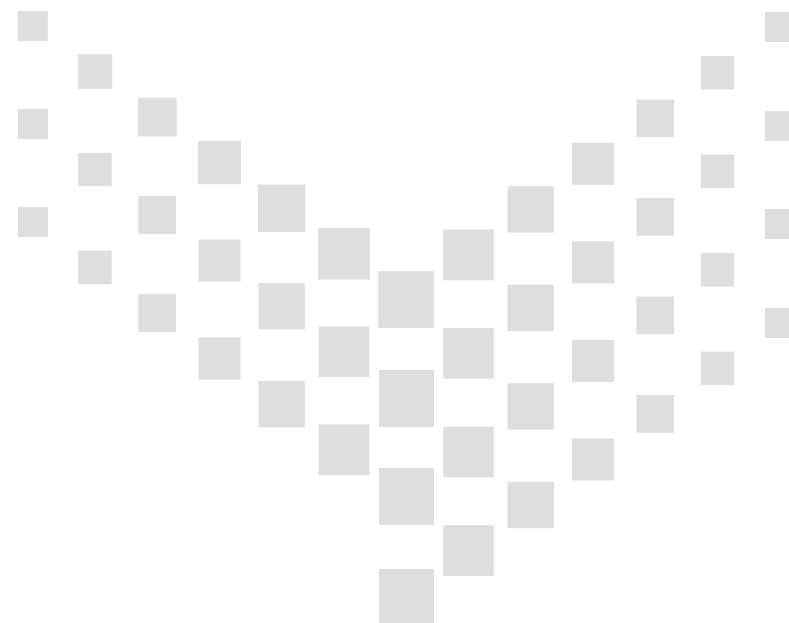


WIRELESS MICROPHONE SYSTEM



CONTENTS

Table of Contents

1. Introduction	1
2. Important Safeguards	1
3. Parts Description	2~3
4. Specifications & Features	4~5
5. Frequency List	6~9
6. User's Guide	10~11
7. Connection	12
8. Trouble Shooting	13
9. Basic Set	13

TROUBLE SHOOTING

8. Trouble-shooting

Problem	Solution
No sound	• Check receiver and microphone power. • Make sure transmitter and receiver frequency is same. • Check if amplifier or other equipment's power is on. Check if the connection between receiver and mixer or amplifier is proper. • Check microphone battery power. • Check receiver antenna connection. • Check if receiver is too close to metal parts or there is barrier between transmitter and receiver.
Noise or interference occurs	• Make sure microphone battery is installed firmly and there is no interferential source. • Check if signal cable is well connected. • Check receiver antenna connection. • When using 2 or more microphone set simultaneously, make sure the frequencies are not interfered each other. • Check if the interference comes from other wireless microphone, TV, radio and etc.
Distortion	• Check if amplifier volume is too high or too small. • Check if the interference comes from other wireless microphone, TV, radio and etc.

Note: This system may be interfered by radio wave.

9. Basic Set

(1) Receiver	1PC
(2) Antenna	2PCS
(3) Transmitter	1PC
(4) 1.5V 5AA Battery	2PC
(5) 9V Battery	1PC
(6) Adapter	1PC
(7) 6.3 Φ Signal Cable	1PC
(8) XLR Signal Cable	1PC
(9) User's Manual	1PC

Optional parts:

Mounting rack 2PCS

High sensitivity cartridge set

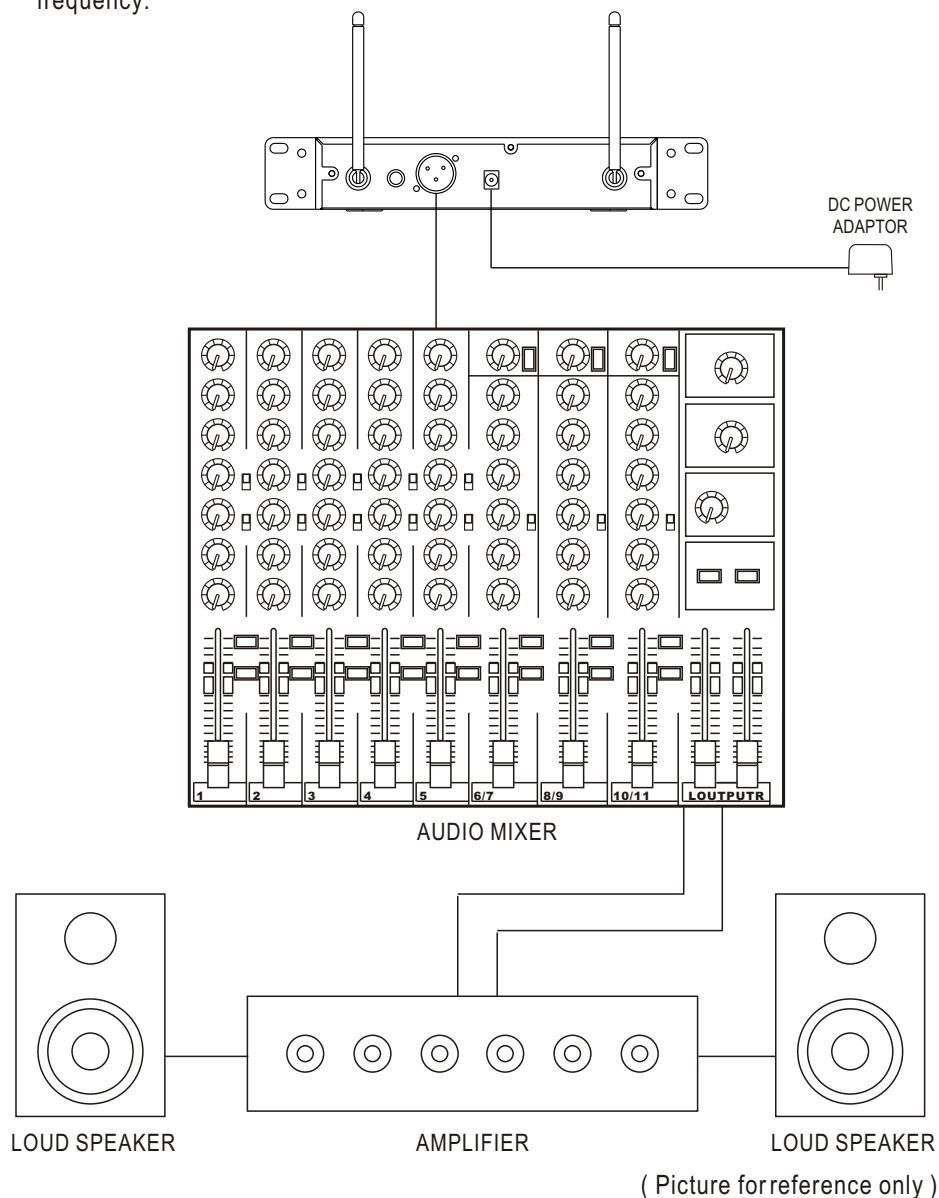
Designs and specifications are subject to change without notice for improvement.

CONNECTION

7. Connection

Use 6.3mm unbalanced signal cable or 3 pin XLR balanced signal cable to connect receiver AF Output to MIC-IN jack on mixer or amplifier. (Refer to following illustration)

Before installation please make sure receiver frequency is same as transmitter frequency.



IMPORTANT SAFEGUARDS

1. Introduction

Thank you for choosing our UHF single channel true diversity wireless microphone system. Before use please read this manual carefully to understand the correct operation and have the best results.

It is a professional wireless microphone system designed for stage applications. All the features completely meet the strict requirement of professional users. With excellent quality, affordable price, stable performance, and easy to operate, UR-M256LC is your best choice.

2. Important Safeguards

- Do not open this product by yourself for adjustment.
- When abnormality occurs, Please submit this equipment to our dealer for examination, adjustment and repair.
- One receiver cannot receive signal from two same frequency microphones simultaneously. Other microphones with different frequency or brand cannot be used for this receiver.
- To reduce the risk of fire or electric shock, do not remove the cover. High voltage parts inside.
- To reduce the risk of electric shock, do not touch power out let when it thunders, do not pull power plug with wet hands.
- To reduce the risk of fire or electric shock from damaged power cord, do not pull power cord from power outlet strongly. Always grasp the plug tightly then pull it out. Turn off the power if this equipment will not be used for a long period of time after set-up.
- To reduce the risk of electric shock, use only the specified power voltage.
- To prevent damage from dropping or inclining, do not put heavy articles on the top of this equipment, do not place this equipment on shaking, inclining unstable places.
- To reduce the risk of electric shock, do not put vessel with liquid or small metal parts on the top of this equipment, do not let metal or flammable parts drop into this equipment.
- To reduce the risk of fire or electric shock, do not expose this equipment and power cord to moisture, dust and sun. Keep away from hot apparatus or places with oil, smoke and water.
- Keep power plug and outlet clean. Power plug and outlet with accumulated dust is apt to cause fire, clean them regularly. Insert power plug into power outlet entirely.
- When abnormality occurs, please pull out power plug and contact our dealer when the following happens:
 - When smoke comes out from this equipment and burning smell can be smelt.
 - Water or other article goes into this equipment.
 - Drop on the ground and unit is damaged.
 - No sound output.
 - Power cord damaged. (Cord core exposes or cord broken)



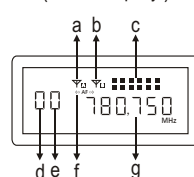
PARTS DESCRIPTION

3. Parts Description

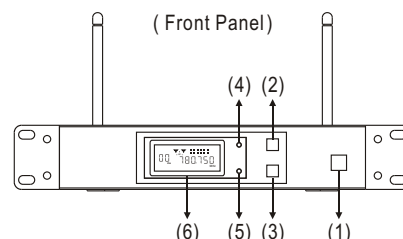
3.1 Receiver

- (1) Power Switch
- (2) GP :
Group set button and GP / CH adjust (UP)
- (3) CH :
Channel set button and GP / CH adjust (DOWN)
- (4) GP LED indicator:
press GP button, it will light.
- (5) CH LED indicator:
press CH button, it will light.
- (6) LCD Display :
 - a. RF-Areception
 - b. RF-B reception
 - c. RF signal strength indicator
 - d. GP number
 - e. CH number
 - f. AF signal strength indicator
 - g. Frequency
- (7) Antenna B
- (8) AF unbalanced output :
phone jack
- (9) AF balanced output :
XLR jack, balanced AF signal output sensitivity is same as dynamic microphone.
- (10) DC Power Source Input Jack :
Connect AC / DC power supply
- (11) Antenna A
- (12) Mounting Rack

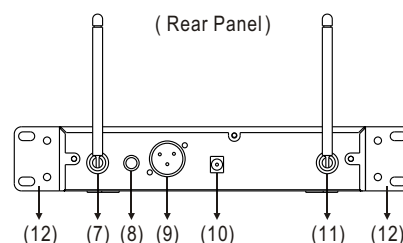
(LCD Display)



(Front Panel)



(Rear Panel)



(Picture for reference only)

USER'S GUIDE

interfere each other.

Users are suggested to use these frequencies firstly.

Choose other frequencies if more frequencies are needed.

6.2 Handheld Microphone

1. Open battery cover then insert battery (pay attention to the positive and negative pole). Close battery cover .
 2. Turn on power switch (5), LCD will show group and channel set at last using time.
 3. Group adjust: Press GP button (3) for about 3 seconds, GP number on LCD will flash; release GP button (3), now GP button changes to UP function and CH button (4) changes to DOWN function, press GP button to move GP UP or CH button to move GP down.
 4. Channel adjust: Press CH button (4) for about 3 seconds, CH number on LCD will flash; release CH button (4), press GP button to move CH UP or CH button to move CH down.
 5. After adjusting Group or Channel, release all buttons, group or channel will flash about 3 seconds and then stop, frequency will be locked and saved.
 6. Adjust microphone's GP and CH (according to above procedure 3,4,5) to make the frequency same as receiver.
 7. After 30 seconds if no buttons are pressed, LCD will display battery power. Press GP button or CH button, LCD will show GP number and CH number.
- Note:** If microphone LCD shows "LO", it means battery power will be exhausted. Please exchange new battery. In the meanwhile, microphone will still work normally for about 3 minutes. After 3 minutes if battery is not replaced, microphone will stop working.
8. Take out battery if microphone is not going to be used for a long period of time.

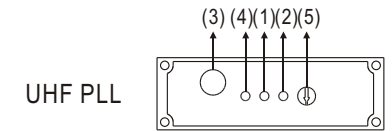
6. User's Guide

6.1 Receiver

1. Install attached two BNC antennas on the antenna jack at the rear panel of the receiver.
Incline antennas outwards 45 degree to get the best reception.
2. To get the best reception, install receiver at least 1 metre above the ground. Keep transmitter at least 1 meter from receiver antennas and far away from interferential sources.
3. Use attached mounting rack to install receiver on EIA standard rack.
4. Plug one end of the AC power adapter into AC power source with specified voltage and the other end into DC INPUT connector (10) on the back of receiver.
5. AF output: Insert one end of the signal cable into AF output jack (8) or (9) at the back of the receiver and the other end of the signal cable into amplifier or mixer MIC-IN jack.
6. Turn on power switch (1), LCD will light and show the group and channel number set at last using time.
7. Press GP button (2), GP LED (4) will light; release the GP button, GP LED will extinguish. Press CH button (3), CH LED indicator (5) will light; release the CH button, CH LED will extinguish.
8. Group adjust: Press GP button (2) for about 3 seconds, GP number on LCD will flash, frequency will also flash; release GP button (2), now GP button changes to UP function and CH button changes to DOWN function, press GP button to move GP UP or CH button to move GP down.
9. Channel adjust: Press CH button (3) for about 3 seconds, CH number on LCD will flash, frequency will also flash; release CH button (3), press GP button to move CH UP or CH button to move CH down.
10. After adjusting Group and Channel, release all buttons, group or channel will flash about 3 seconds and then stop, frequency will be locked and saved.
11. Adjust receiver GP and CH to be same as transmitter GP and CH (according to the above procedure 7,8,9), receiver LCD will show AF signal strength, RF signal strength and RFA or RF B reception.
(These information will not show when adjusting GP or CH, transmitter is not turned on, or GP and CH of transmitter is different from receiver.)
Note: This system has 16 sets of preset frequencies (from 00 to 0F) which will not

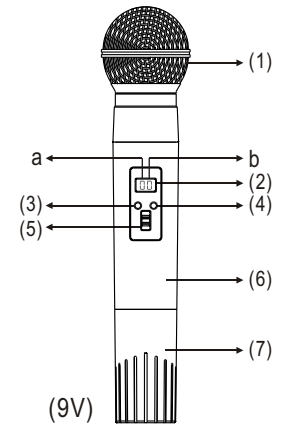
3.2 Receiver Module

- (1) CH1/ CH2 RF LED Indicator
- (2) AF Sound Signal LED Indicator
- (3) Power Switch & Volume Control
- (4) Power LED Indicator
- (5) Frequency Switch



3.3 Handheld Microphone

- (1) Mesh & cartridge : Cartridge is protected by mesh to eliminate "POP" noise.
- (2) CH LCD display
 - a. GP number
 - b. CH number
- (3) GP : Group set button and GP / CH adjust (UP)
- (4) CH : Channel set button and GP / CH adjust (DOWN)
- (5) Power Switch
- (6) Handheld microphone body: Connect the cartridge, mesh, and battery compartment
- (7) Battery Compartment/ Cover : For setting battery



4. Specifications

4.1 General

Frequency Range	902.5MHz - 927.5MHz
Oscillation Mode	PLL synthesized
Frequency Number	256
Frequency Response	50Hz - 20KHz
Receiving Range	100m

4.2 Receiver

Frequency Bandwidth	25MHz
Frequency Stability	± 0.005%
Sensitivity	- 95dBm S/ N > 40dB
Adjacent Channel Rejection	> 90dB
AF Output	100mV ± 5mV
SNR	> 100dB
Distortion	< 1% (AF = 1KHz)
Function Display Mode	LCD
Power Source	DC 12 - 15 V

(Picture for reference only)

SPECIFICATIONS & FEATURES

4.3 Transmitter

Frequency Bandwidth	25MHz
Frequency Stability	± 0.005%
Modulation	FM
Spurious Emission	> 55dB
AF Modulation	± 25K
Power Source	DC 3V / 9V
Current Consumption	40mA
Transmitting Power	10mW
Function Display Mode	LCD

5. Features

1. UHF PLL synthesized circuit, with 256 selectable frequencies for choice.
2. True diversity receiving mode can effectively avoid drop-outs and dead spots.
Available distance can be more than 100 metre.
3. With special anti-interference circuit and tone code security to effectively avoid interference and eliminate noise.
4. Adopt high stable circuit design and spare parts, this device can be operated in a wide range of temperature environment (-10°C ~ +60°C). Advanced VCO circuit design to allow performers shout loudly without any broken voice happen. It is the best microphone system for stage performance.
5. Using high sensitivity, wide frequency response dynamic cartridge and advanced signal processing circuit to present the real and natural voice of both male and female. It is the top choice for live-performance singers.
6. Numeric LCD is clear and accurate in displaying receiving channel, receiving signal level and AF signal strength.
7. High performance cartridge. Following is frequency response figure.

FREQUENCY LIST

KOREA STANDARD

CH GP	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	740.050	740.750	741.650	742.350	743.250	743.950	744.850	745.550	746.450	747.150	747.950	748.650	749.550	750.250	751.150	751.850
1	740.000	740.765	741.485	742.205	742.925	743.645	744.365	745.085	745.805	746.525	747.245	747.965	748.685	749.405	750.125	750.870
2	740.090	740.810	741.530	742.250	742.970	743.690	744.410	745.130	745.850	746.570	747.290	748.010	748.730	749.450	750.170	750.940
3	740.135	740.855	741.575	742.295	743.015	743.735	744.455	745.175	745.895	746.615	747.335	748.055	748.775	749.495	750.215	751.010
4	740.180	740.900	741.620	742.340	743.060	743.780	744.500	745.220	745.940	746.660	747.380	748.100	748.820	749.540	750.260	751.080
5	740.225	740.945	741.665	742.385	743.105	743.825	744.545	745.265	745.985	746.705	747.425	748.145	748.865	749.585	750.305	751.150
6	740.270	740.990	741.710	742.430	743.150	743.870	744.590	745.310	746.030	746.750	747.470	748.190	748.910	749.630	750.350	751.220
7	740.315	741.035	741.755	742.475	743.195	743.915	744.635	745.355	746.075	746.795	747.515	748.235	748.955	749.675	750.395	751.290
8	740.360	741.080	741.800	742.520	743.240	743.960	744.680	745.400	746.120	746.840	747.560	748.280	749.000	749.720	750.440	751.360
9	740.405	741.125	741.845	742.565	743.285	744.005	744.725	745.445	746.165	746.885	747.605	748.325	749.045	749.765	750.485	751.430
A	740.450	741.170	741.890	742.610	743.330	744.050	744.770	745.490	746.210	746.930	747.650	748.370	749.090	749.810	750.530	751.500
B	740.495	741.215	741.935	742.655	743.375	744.095	744.815	745.535	746.255	746.975	747.695	748.415	749.135	749.855	750.575	751.570
C	740.540	741.260	741.980	742.700	743.420	744.140	744.860	745.580	746.300	747.020	747.740	748.460	749.180	749.900	750.620	751.640
D	740.585	741.305	742.025	742.745	743.465	744.185	744.905	745.625	746.345	747.065	747.785	748.505	749.225	749.945	750.665	751.710
E	740.630	741.350	742.070	742.790	743.510	744.230	744.950	745.670	746.390	747.110	747.830	748.550	749.270	749.990	750.710	751.780
F	740.675	741.395	742.115	742.835	743.555	744.275	744.995	745.715	746.435	747.155	747.875	748.595	749.315	750.035	750.755	750.800

FREQUENCY LIST															
CH GP	0	1	2	3	4	5	6	7	8	9	A	B	C	D	F
0	795.250	795.600	797.050	798.100	799.550	800.600	802.050	803.100	804.550	806.100	807.550	809.300	810.650	812.200	813.750
1	795.050	796.350	797.650	798.900	800.200	801.450	802.750	804.050	805.300	806.600	807.900	809.150	810.450	811.700	812.800
2	795.150	796.450	797.700	799.000	800.250	801.550	802.850	804.100	805.400	806.700	807.950	809.250	810.500	811.800	812.850
3	795.000	796.500	797.800	799.050	800.350	801.650	802.900	804.200	805.500	806.750	808.050	809.050	810.600	811.900	812.900
4	795.300	796.600	797.850	799.150	800.400	801.700	803.000	804.250	805.550	806.850	808.100	809.400	810.700	811.950	812.950
5	795.400	796.650	797.950	799.250	800.500	801.800	803.050	804.350	805.650	806.900	808.200	809.500	810.750	812.050	813.950
6	795.450	796.760	798.050	799.300	801.400	801.850	803.150	804.450	805.700	807.000	808.250	809.550	810.850	812.100	814.000
7	795.550	796.850	798.850	799.400	800.650	801.950	803.250	804.500	805.800	807.100	808.350	809.650	810.900	812.150	814.500
8	796.250	796.900	798.200	799.450	800.750	802.650	803.300	804.600	805.900	807.150	808.450	809.700	811.000	811.650	814.550
9	795.700	797.000	798.250	800.100	800.850	802.100	803.400	804.650	805.950	807.250	808.500	809.800	811.100	812.250	814.600
A	795.800	797.550	798.350	799.650	800.900	802.200	803.450	804.750	806.050	807.300	808.600	809.900	811.150	812.300	814.700
B	795.850	795.150	798.450	799.700	801.000	802.250	803.550	804.850	806.110	807.400	808.650	810.000	811.250	812.500	814.800
C	795.950	797.250	798.500	799.800	801.050	802.350	803.650	804.900	806.200	807.500	808.750	810.050	811.300	812.550	814.850
D	796.050	797.300	798.500	799.850	801.150	802.450	803.700	805.000	806.300	807.800	808.850	810.100	811.400	812.600	814.900
E	796.100	797.400	798.650	799.950	801.250	802.500	803.800	805.050	806.350	807.650	808.900	810.200	811.500	812.650	814.950
F	796.200	797.450	798.750	800.050	801.300	802.600	803.850	805.150	806.450	807.700	809.000	810.300	811.550	812.700	813.650

FEATURES

X:1000Hz

Y:-59.3dBV/Pa

Y:-57.1dBm/Pa

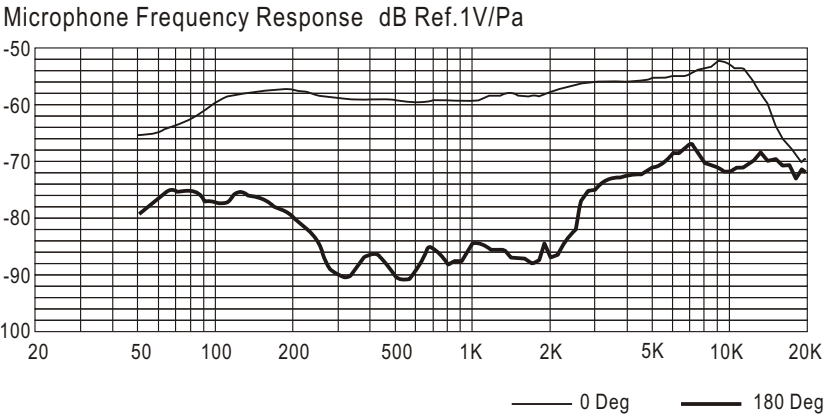
D:0.0dB

Y:-84.3dBV/Pa

Y:-82.1dBm/Pa

D:0.0dB

Z:-25.0dB



8. International EIA standard half U rack. Metal case. Strong and nice.
9. Pre-programmed 16 groups of frequency to be used simultaneously without any interference, including :
00、01、02、03、04、05、06、07、08、09、0A、0B、0C、0D、0E、0F .
10. Pre-set two groups of frequencies for choice. One is for USA standard, another is for Europe standard. Following is frequency list.

USA STANDARD

FREQUENCY LIST

CH GP	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	904.850	905.750	906.850	908.150	909.650	911.350	913.450	914.850	915.750	916.850	918.150	919.650	921.350	923.250	924.150	925.350
1	904.930	906.210	907.490	908.770	910.050	911.330	912.610	913.890	915.170	916.450	917.730	919.010	920.290	921.570	922.850	924.130
2	905.010	906.290	907.570	908.850	910.130	911.410	912.690	913.970	915.250	916.530	917.810	919.090	920.370	921.650	922.930	924.210
3	905.090	906.370	907.650	908.930	910.210	911.490	912.770	914.050	915.330	916.610	917.890	919.170	920.450	921.730	923.010	924.290
4	905.170	906.450	907.730	909.010	910.290	911.570	912.850	914.130	915.410	916.690	917.970	919.250	920.530	921.810	923.090	924.370
5	905.250	906.530	907.810	909.090	910.370	911.650	912.930	914.210	915.490	916.770	918.050	919.330	920.610	921.890	923.170	924.450
6	905.330	906.610	907.890	909.170	910.450	911.730	913.010	914.290	915.570	916.850	918.130	919.410	920.690	921.970	921.490	924.530
7	905.410	906.690	907.970	909.250	910.530	911.810	913.090	914.370	915.650	916.930	918.210	919.490	920.770	922.050	923.330	924.610
8	905.490	906.770	908.050	909.330	910.610	911.890	913.170	914.450	915.730	917.010	918.290	919.570	920.850	922.130	923.410	924.690
9	905.570	907.410	908.130	909.410	910.690	911.970	913.250	914.530	915.810	917.090	918.370	918.930	920.930	922.210	923.490	924.770
A	905.650	906.930	908.210	909.490	910.770	912.050	913.330	914.610	915.890	917.170	918.450	919.730	921.010	922.290	923.570	924.850
B	905.730	907.010	908.290	909.570	910.850	912.130	913.410	914.690	915.970	917.250	918.530	919.810	921.090	922.370	923.650	924.930
C	905.810	907.090	908.370	909.650	910.930	912.210	913.490	914.770	916.050	917.330	918.610	919.890	921.170	922.450	923.730	925.010
D	905.890	907.170	908.450	909.730	911.010	912.290	913.570	914.850	916.130	917.410	918.690	919.970	921.250	922.530	923.810	925.090
E	905.970	907.250	908.530	909.810	911.090	912.370	913.650	914.930	916.210	917.490	918.770	920.050	921.330	922.610	923.890	925.170
F	906.050	907.330	908.610	909.890	911.170	912.450	913.730	915.010	916.290	917.570	918.850	920.130	921.410	922.690	923.970	925.250

EUROPE STANDARD

FREQUENCY LIST

CH GP	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	851.050	851.950	852.650	853.550	854.250	855.150	855.850	856.950	857.650	858.550	859.250	860.150	861.850	863.050	863.950	864.750
1	851.700	851.850	854.700	856.150	861.600	862.400	859.200	858.500	861.400	852.100	857.800	857.300	860.700	861.950	851.300	857.000
2	852.150	853.100	857.100	861.000	852.400	859.650	863.500	857.200	853.750	854.450	861.150	854.000	862.950	857.900	863.150	858.100
3	852.950	853.800	851.550	863.600	857.850	863.200	856.100	859.400	861.500	853.000	860.250	861.050	863.750	862.850	863.550	855.500
4	851.400	858.050	858.700	859.300	861.200	851.500	859.950	860.400	857.450	858.200	855.000	855.950	854.900	863.350	856.700	857.150
5	852.050	855.050	856.800	853.350	854.500	856.600	854.600	862.300	860.050	851.200	858.000	862.350	856.850	853.400	851.900	856.050
6	853.950	856.350	858.400	860.750	862.550	858.150	856.450	862.100	854.800	858.750	862.250	858.850	859.350	861.450	860.350	854.750
7	854.350	856.000	859.550	862.200	863.300	860.900	857.950	859.900	858.350	862.700	861.550	859.000	851.600	859.150	851.450	852.600
8	853.650	862.900	859.100	863.400	854.050	861.300	851.350	860.650	862.800	859.050	852.000	852.200	853.600	862.450	861.250	857.700
9	851.250	854.950	860.500	855.450	857.350	861.900	858.800	862.650	853.900	854.200	856.200	856.300	854.300	859.850	852.350	856.400
A	852.550	855.300	860.100	860.300	860.600	863.700	860.200	863.000	852.750	855.750	863.450	861.350	859.700	855.350	860.000	855.100
B	852.300	857.750	852.800	861.800	862.750	856.750	852.500	857.050	852.250	862.500	853.500	860.800	862.050	853.700	853.200	855.650
C	853.250	854.850	859.800	863.100	863.800	851.150	859.750	858.600	855.400	860.450	863.250	856.550	855.200	851.750	859.500	854.550
D	855.600	855.800	854.150	858.250	859.450	855.700	861.100	851.800	853.150	854.650	853.300	861.750	858.300	861.650	858.450	852.850
E	853.450	856.650	858.900	862.000	856.250	857.600	861.700	860.850	851.650	859.600	852.700	854.400	857.550	860.550	858.650	853.850
F	857.250	857.500	852.900	856.500	855.250	855.900	856.900	855.550	851.100	852.450	863.650	860.950	853.050	862.600	858.950	854.100

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.