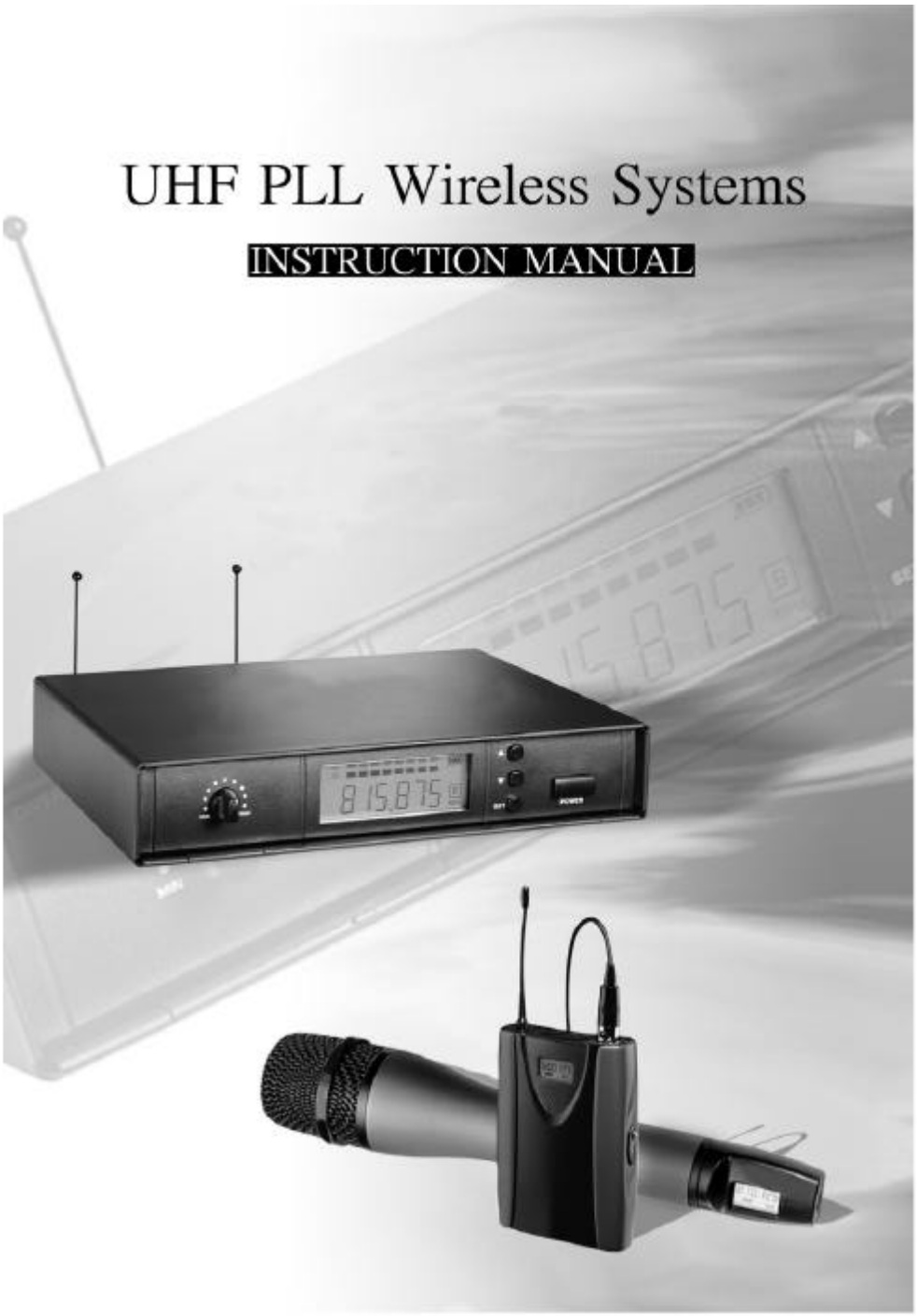
UHF PLL Wireless Systems

INSTRUCTION MANUAL



GM-901D-01

TABLE CONTENTS

Thank you for choosing the wireless system. In order to obtain the best efficiency from the system, you are recommended to take few minutes to read this instruction manual carefully.

1. Important Cautions

1-1 Always make all connections before plugging the unit into an AC power outlet.

1-2 Do not leave the devices in a place neither with high temperature nor high humidity.

1-3 Always do not handle the power cord with wet hands !

1-4 Keep the devices away from fire and heat sources.

2. Features

* Operated in UHF band where there is less RF interference than the VHF band.
* Due to the PLL synthesized technology, the system can offer up to 161 selectable frequencies for choosing simultaneously.
* The true diversity reception with 2 independent RF receivers ensure the stable transmission and reception.
* Adjustable Pilot tone squelch control can effectively reduce the noise.
* Tuned antennas can benefit the stable RF reception.
* Built-in Noise Squelch circuity & Mute function are available to restrain the interference for signals.
* Compact half-rack receiver design is considerable for the space saving.
* Rugged metal housing can pass through the difficult environment.
* Equipped with balanced XLR and unbalanced output allow great convenience.
* Anti-interference design is available to work with every computer device.

3. Specification

3-1 Overall System Specification

RF Frequency Range	600MHz~960MHz
Oscillation Type	PLL Synthesized Control OSC
Channels	193 Channels
Audio Frequency Response	50Hz~18KHz
Operation Range	100M

3-2 Receiver

Band-width	24MHz
Frequency Stability	±0.005%
S/N Ratio	> 100dB(1KHz-A)
RF Sensitivity	-107dB (12dB S/N AD)
Image Rejection	> 60dB
T.H.D.(1KHz)	< 0.6%@1KHz
AF Output Impedance	600Ω
Audio Output Level	-12dB
Noise Reduction Type	Noise Mute & Pilot tone
Power Requirement	12-18V DC, 600mA
Output connector	Balanced XLR socket & Unbalanced 6.3mm socket
Dimension	211mm(W)*40mm(H)*152mm(D)

3-3 Handheld Transmitter

Frequency Stability	±0.005%
Modulation Deviation	±48KHz
Spurious Rejection	<-60dBc
RF Output	10mW
Current Consumption	100mA
Operation Voltage	UM3, AA 1.5V *2
Housing Material	Alloy

3-4 Body-pack Transmitter

Frequency Stability	±0.005%
Modulation Deviation	±48KHz
Spurious Rejection	<-60dBc
RF Output	50mW
Current Consumption	100mA
Operation Voltage	UM3, AA 1.5V *2
Output Connector	Mini XLR socket
Housing Material	Alloy

3-5 Condenser Microphone

Type	Lavalier	Headset
Frequency Range	100Hz~12,000Hz	50Hz~18,000Hz
Polar Pattern	Cardioid	Cardioid
Sensitivity(at 1 kHz)	-70dB±3dB	-70dB±3dB
Impedance	2kΩ ±30%	680 Ω±30%
Max SPL for 1%THD	130dB	130dB
Connector type	Mini XLR	Mini XLR
Standard Accessories	Windscreen	Windscreen