



# **G1**

CHARGER AMPLIFIER USER'S GUIDE

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## 1. PREFACE



Please read the following sections before using the G1 Charger Amplifier.

### ► 1-1. IMPORTANT SAFETY INFORMATION

To ensure the safe use of this product:

- ※ Use your charger only with the supplied power adapter.
- ※ Do not put a pager with a non-rechargeable batteries inside into the charger  
(Use the rechargeable batteries provided by Unication).
- ※ Keep your charger away from high temperature, high humidity, dust, chemicals and corrosive materials.
- ※ Do not disassemble your charger or power adapter.
- ⚠ 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.


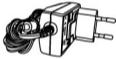


- ⚠ IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.
- ⚠ DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.
- ⚠ For connection to a supply not in U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed.

## 2. OVERVIEW



## ► 2-1. STANDARD PACKAGE

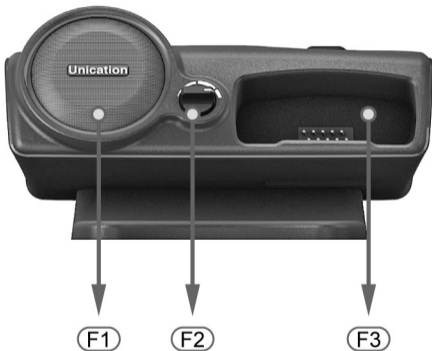
The standard Charger Amplifier contains:

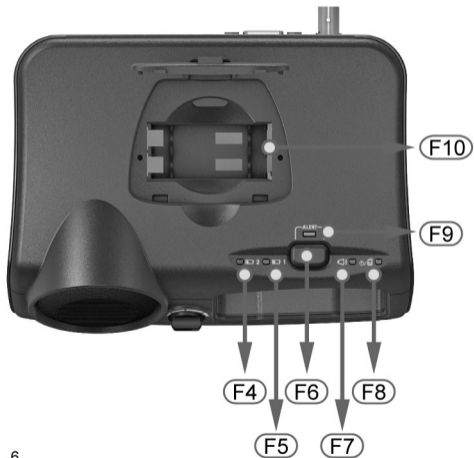
Item	Charger Amplifier	DC Power Adapter
Illustration		
Item	External Antenna	User's Guide
Illustration		

## 3. DESCRIPTION



## ▶ 3-1. FRONT VIEW

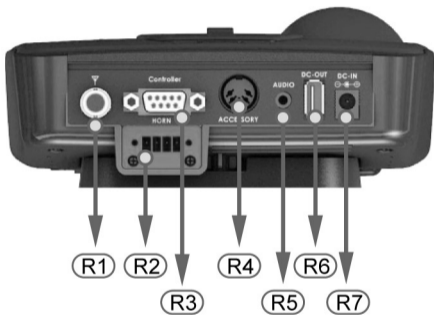




No.	Introductions
F1	Speaker
F2	Volume Control Knob
F3	Pager Socket
F4	Spare Battery 2 Charging LED
F5	Spare Battery 1 Charging LED
F6	Reset Button
F7	Horn Speaker Status LED
F8	G1 Charging LED & Power on LED
F9	Alert Light
F10	Spare Battery Socket



## ▶ 3-2. REAR VIEW



No.	Output Introductions
R1	Antenna Jack
R2	4 Pin Socket
R3	Controller Jack
R4	6 Pin DIN Jack
R5	Earphone Jack
R6	Bluetooth Headset Jack
R7	Power Socket

### ► 3-3. LED INDICATOR

The following describes the different LED indicators:

No.	LED Function	Color	LED Action	Condition
1	Charger AMP. Power LED & G1 Charging LED	Green	On for 1 sec.	Power On
		Orange	Steady	Battery is charging
		Green	Steady	Fully Charged
		Red	Flashing	Charging Error
2	Spare Battery 1 Charging LED & Spare Battery 2 Charging LED	Orange	Steady	Spare Battery Charging
		Green	Steady	Spare Battery Charging
		Red	Flashing	Charging Error
3	Alert	Green	Flashing	Message Received
4	Horn Speaker LED	Green	Flashing	Horn Speaker I/O Enabled

## 4. INSTALLATION



### ► 4-1. Power

G1 Charger Amplifier Power Sources:

- a. Using the supplied 12VDC Adapter, connect the AC end to a 110/60Hz receptacle and the 12VDC plug to the rear of the Amplifier labeled DC In.
- b. Using the optional vehicle charger cable, insert the cigarette lighter end in the vehicle's socket and the 12VDC plug to the rear of the Amplifier labeled DC In.

### ► 4-2. Antenna

Depending on the Transmitting frequency one of two types of antennas is used. One antenna will accommodate both VHF and UHF applications and another is used for Low Band applications. The appropriate antenna is affixed to the Amplifier's BNC connector located on the rear of the unit.

## 5. OPERATION



### ► 5-1. CHARGING

#### 5-1-1. CHARGING G1 UNIT

Ensure the rechargeable batteries are installed in the G1. For best performance, use the rechargeable batteries supplied by Unication.

Step 1. Please insert the pager into the charger's pager pocket as in the following illustration:



Step 2. Once the pager is inserted correctly the charger amplifier will detect the batteries and start charging. When the pager is being charged, the charging LED is orange.

Step 3. When the pager is fully charged, the charging LED turns green.

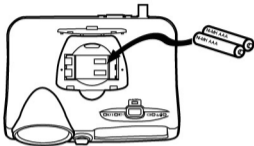
NOTE. When the charging time or the charging voltage is exceeded, the charging LED will turn red and flash to indicate the abnormal operations. Please remove the pager from the charger to stop charging.

NOTE. The charging green LED will remain flashing if ambient temperature is below 0°C or higher than 50°C. Please remove the pager from the charger to stop charging.

### **5-1-2. CHARGING SPARE BATTERIES**

Up to two NiMH batteries can be charged. For best performance, use the ones supplied by Unication:

Step 1. Put the rechargeable batteries into battery pocket as following illustration:

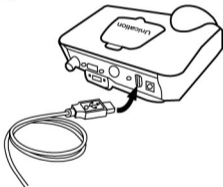


- Step 2. Once the Ni- MH rechargeable batteries are inserted correctly, the charger amplifier will detect the batteries and start charging. When the rechargeable batteries are being charged, the charging LED turns orange.
- Step 3. When the rechargeable batteries are fully charged, the LED will turn green.
- Step 4. When exceeding normal charging time or charging voltage, the charging LED will turn red and flash to indicate the abnormal operations. Please remove the spare batteries from the charger amplifier to stop charging.

### 5-1-3. CHARGING EXTERNAL BLUETOOTH HEADSET

Make sure the charging specification of your Bluetooth headset meets the charging limitation (4.5 V ~ 6.5 V) of the G1 Charger Amplifier:

Step 1. Insert the Bluetooth charging cable to the Charger Bluetooth headset charging jack as following illustration.



Step 2. Connect Bluetooth headset with its charging cable.

### ► 5-2. Voice Message Amplification

Step 1. Turn the G1 on and place it in the Amplifier.



Step 2. Any received message will be amplified depending on the Amplifier's volume switch setting.

Step 3. Adjust the Amplifier's volume switch to a desired setting.

### ► 5-3. External Equipment Control

The Charger Amplifier provides a variety I/O for external device control.

#### 5-3-1. Horn Speaker

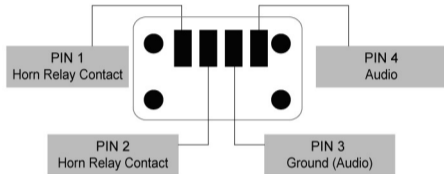
Step 1. With the G1 turned on, place it in the Amplifier.

Step 2. Select RCA connector and make the external connections.

Step 3. When a message is received, the relay closure is asserted and audio is active.

Step 4. Audio can be terminated by; shutting the G1 off or depressing the Reset button on the G1.

## ※ Horn Speaker Connector Pin:



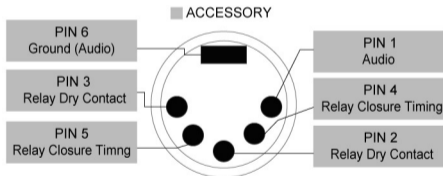
### 5-3-2. Fire Alert Indicator

Step 1. Insert the G1, turned on, in the Charger Amplifier.

Step 2. Using the DIN Connector, connect the external equipment to the appropriate signaling pins. Pins 1 and 6 are outputs and are used to control a remote speaker. Pins 2 and 3 are outputs and are shorted upon a message being received and, depending on the status of pins 4 and 5, remain in this condition until the Reset key button is depressed. Pins 4 and 5 are

inputs that are used to control the duration pins 2 and 3 remain shorted. If pins 4 and 5 are shorted then pins 2 and 3 will remain shorted until the Reset keybutton is depressed. If they are not shorted together the duration that pins 2 and 3 remain shorted is 10 seconds.

Step 3. Upon receiving a page the relay and audio output are activated.



## 6. PRODUCT SPECIFICATIONS



## ► 6-1. GENERAL SPECIFICATION

Item		Specification
Charging Options	Main Charging Slot	For G1
	Spare Charging Slot	For Spare Ni-MH Battery AAA
	BT Charging Socket	For BT Headset (USB A-Type)
Power Supply	Adaptor Input / Output	Input : 100~240VAC / 50~60 Hz Output :12Vdc / 1.5A
	Normal Charge Current	800mA/2.4V
		800mA/1.2V (Spare Battery AAA*1) 80mA/5.0V (BT Headset)
	Full Recharge Time	2.5 Hours

Item		Specification
SPL	Alert output	$\geq 106$ dB SPL
External I/O	Audio Out	3.5 $\emptyset$ Earphone Jack *1
	Ext. Antenna Connector	BNC Jack *1
	Bluetooth Charging Port	USB A-Type *1
	Data Transfer	RS485 (DB-9 Female) *1
	DC Jack	12Vdc / 1.5A
	Terminal Block	4 Pin Socket (Horn Speaker)
	DIN Jack	6 Pin DIN Jack
Physical	Dimensions	162(L) x 115(W) x 53(H) mm

Item		Specification
Handing Temperature	Operation Temperature	0 ~ + 40°C
	Storage Temperature	-10 ~ + 60 °C
Certification		CE,FCC,IC, RoHs, UL,

► 6-2. POWER ADAPTOR SPECIFICATIONS

Item	Description
Input Voltage	AC 90-265V ; 47~63Hz
Output Voltage	DC 12V
Output Current	1.5A
Adaptor Power	18W
DC Power Cord Length	1.8m
AC Plug Type	North America
Adaptor Efficiency	82.6%
Charger Charging Specification	CC mode, Constant Current
	CV mode, Constant Voltage

## ► 6-3. EXTERNAL ANTENNA SPECIFICATION

Item \ Band	UHF Band	VHF Band
Operation Frequency Range	380~512MHz	138~174MHz
Input Return Loss (VSWR)	$\leq 2$	$\leq 2$
Antenna Gain	$\geq -5\text{dBi}$	$\geq -8\text{dBi}$
Antenna Length	$\leq 60\text{cm}$	$\leq 60\text{cm}$
Weight	$\leq 300\text{g}$	$\leq 300\text{g}$
Terminal Impedance	50 ohm	50 ohm





Unication



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