

# Microframe Corporation

## Series 3400: Coaster Call Paging System



# Operating Manual

B3400-7012





**SERIES 3400  
COASTER CALL PAGING SYSTEM**

**INSTALLATION & SPECIFICATION GUIDE**

**ITEM NO: A3400-7012  
REVISION DATE: 11/09**

Microframe Corporation  
604 S. 12th Street  
Broken Arrow, OK 74012

Tel: (918) 258-4839  
Toll Free: 1-800-635-3811  
Website: [www.microframecorp.com](http://www.microframecorp.com)  
E-mail: [support@microframecorp.com](mailto:support@microframecorp.com)

## Limited Warranty Agreement

Your Microframe System is warranted against failure due to defects in workmanship or material for a period of one (1) year from the date of purchase. Microframe Corporation will repair or replace any defective unit. Obvious abuse or mishandling of the unit is NOT covered by this warranty.

## Merchandise Return

If your Unit does not work satisfactorily, please give us a call. We may be able to correct the problem by phone. If it becomes necessary to return your Unit to the factory, please observe the following:

1. Place Unit in a sturdy box with sufficient packing material.
2. If requested, include the power supply.
3. Return the system insured and prepaid since we are not responsible for shipping damages and losses on returned Units.

## Warranty Service

For warranty service, please contact Microframe at 1-800-635-3811. A tech will gladly assist you.

## Assistance

For any product assistance or maintenance help, contact Microframe by either calling 1-800-635-3811 or emailing us at support@microframecorp.com.

## Safety

Do not install substitute parts or perform any modification to the product without first contacting Microframe.

## Warning

All power transformers, line cords, and electrical equipment should be kept out of the reach of children and away from water.

## Life Support Policy

Microframe's products are not authorized for use as components in life support devices or systems without the express written approval of the president of Microframe Corporation. As used herein:

1. Life support devices or systems are defined as systems which support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user or anyone depending on the system.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

## Disclaimer

We are constantly striving to improve our products. Due to this, specifications are subject to change without notice.

# TABLE OF CONTENTS

<b>DATAPAGE LITE+COASTER SPECS .....</b>	<b>6</b>
<b>1 INSTALLING THE TRANSMITTER .....</b>	<b>7</b>
1.1 CONNECTING THE ANTENNA.....	7
1.2 CONNECTING POWER SUPPLY .....	7
1.3 PRECAUTIONS .....	7
<b>2 COASTER SETUP .....</b>	<b>8</b>
2.1 CONNECTING THE BASE .....	8
2.2 SETTING UP COASTERS.....	8
<b>3 OPERATION .....</b>	<b>9</b>
3.1 HANDING OUT COASTERS .....	9
3.2 PAGING THE GUEST .....	9
3.3 OUT OF RANGE FEATURE .....	9
3.4 CHANGING THE ALERT MODE .....	9
3.5 AUTO LOCATE FEATURE.....	9
<b>4 SYSTEM OVERVIEW .....</b>	<b>10</b>
4.1 DESCRIPTION .....	10
4.2 RANGE EXPANSION.....	10
4.3 IMPORTANT INFORMATION .....	10
4.4 SAFETY INFORMATION .....	10
4.5 CARING FOR TRANSMITTER.....	10
4.6 LIABILITY .....	10
4.7 WARRANTY INVALIDATION .....	10
4.8 SERVICE INFORMATION .....	10
<b>MINI DIPOLE ANTENNA MOUNTING.....</b>	<b>11</b>



# DATAPAGE LITE+COASTER SPECS

## On-Premise Paging

### Features

The Coaster Out of Range feature informs customers that they are out of range the moment they step out by continuously playing a melody until the moment they step back in. This feature helps reduce the number of missed pages as well as accidental coaster walk-outs. Coasters are rechargeable and will last approximately 3-5 years before replacement of the battery is necessary.



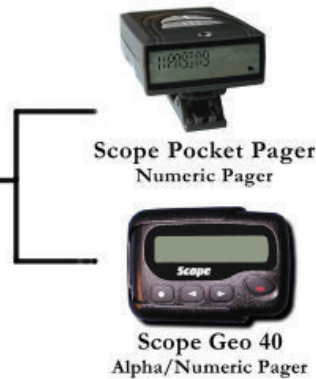
**DataPage Lite Transmitter w/Coaster**

### Operation

The transmitter and charging base simply plug into an outlet using the power adapters supplied. Additional charging bases and coasters may be purchased at any time. Coasters stack on top of the charging base in groups of 15 and are always charging until removed from the stack. To page a guest, simply enter the assigned coaster number into the transmitter.



**DataPage II Transmitter**



**Scope Pocket Pager  
Numeric Pager**



**Scope Geo 40  
Alpha/Numeric Pager**

### DataPage Lite w/Coasters Specifications

Frequency Range .....	457.575 MHz
Baud Rate.....	1200
Distance Range .....	1/4 to 1/2 Mile
FCC Approval No.....	JRNUSASERILINK
Transmitter Mounting.....	Desk Mounted
Coaster Charging .....	Stacks of 15 on Desk Top

**Support and Sales**  
**800-635-3811**

Microframe® Corporation  
[www.microframecorp.com](http://www.microframecorp.com)

P.O. Box 1700  
Broken Arrow, OK 74013

# 1 INSTALLING THE TRANSMITTER

## 1.1 CONNECTING THE ANTENNA

Connect the 90 degree antenna to the BNC connector located at the side of the transmitter. Slide the plastic cover over the connector, engaging the two lugs into the corresponding recesses in the side of the case. This will maintain the antenna in an upright position, which is important for optimizing the range of the transmitter (See Figure 1).

pager number (this can be any number between 1 and 9,999) after which you must press SEND to transmit a page. See "OPERATION" (page 9) for further transmitting procedures.

### IMPORTANT NOTE:

**Use only the power supply provided with your system! The use of non-approved power supplies will invalidate all warranty and service. We also recommend using a surge suppressor for protection. Power surges are not covered under the warranty.**

## 1.2 CONNECTING POWER SUPPLY

Connect the power supply to the power socket located at the right-hand rear corner of the base station (See Figure 2).

Plug the power supply into a convenient wall socket and turn on the power. When the unit is first powered up, the system will display the following screen for a few seconds:

**DATAPAGE  
LITE**

Followed by:

**PAGER: (1-9999).**  
>

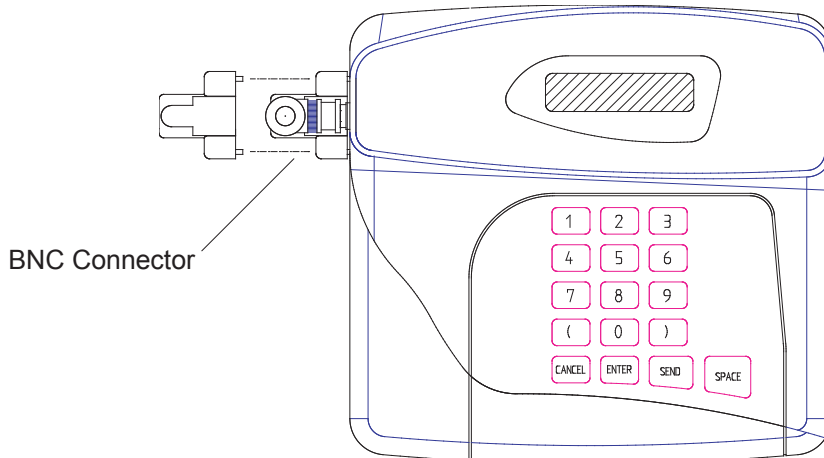
The flashing cursor invites you to enter a

## 1.3 PRECAUTIONS

Avoid mounting the transmitter in the immediate vicinity of telephones, exchanges or computer equipment. A few feet can make the world of difference in avoiding interference from the radio frequency generated by the transmitter.

The performance of your system will be affected by: foil backed wallboard, metal mesh, wire-reinforced glass, metal sheeting, large mirrors, suspended ceilings, elevator shafts, etc. These can all reflect and thereby reduce the signaling capability of the transmitter. A little forethought prior to installation, coupled with a few tests, can normally avoid most problems.

**Figure 1: Connecting the Antenna and Locking Cover**



## 2 COASTER SETUP

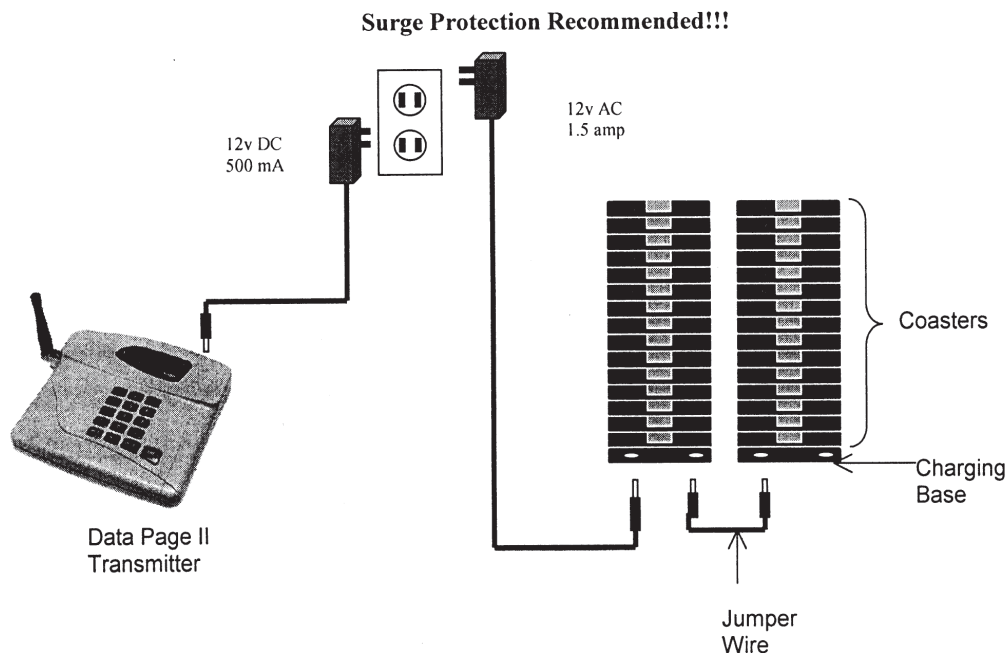
### 2.1 CONNECTING THE BASE

Place the black charging base in a sturdy, out-of-the-way location. If connecting multiple bases, use the jumper wires to connect power from one base to another (See Figure 1). Plug the small tip from the power supply into the first charger base and then plug the power adapter's electrical cord into a standard 110 outlet.

### 2.2 SETTING UP COASTERS

Stack the coasters on the black charging base. The coaster number will always face the front and the red charge indicator light will be on the left. We recommend that you do not stack coasters more than 15 high, as damage to the charger base may occur. A red light should appear on each coaster to indicate proper charging. The supplied 12v AC power adapter supports up to four charging bases joined together by jumper wires. (see diagram below) Additional 12v AC power adapter's can be purchased through Microframe when adding more charging bases.

Figure 1: Connection Diagram



## 3 OPERATION

### 3.1 HANDING OUT COASTERS

Make note of the guest's name and coaster number as they are handed out. Let the guest know that the coaster will signal when their table is ready. The default page for this system is for the coaster to flash and vibrate for 3 minutes. After the coaster is finished vibrating, it automatically goes back into standby mode waiting for the next page. Coasters can be handed out right from the charging stack (they will "demo" page each time they are removed from the stack); or they can be stored in a basket for hand out. A fully charged coaster will function without being recharged for 8-12 hours. You can always reset a coaster by touching it to a charger base.

### 3.2 PAGING THE GUEST

When the guest's table is ready, simply press the coaster number on the transmitter keypad followed by the "SEND" key. For example, press "11, SEND" and coaster #11 will signal.

### 3.3 OUT OF RANGE FEATURE

This feature informs the guest that they are out of range by playing a melody. The melody only stops when they return within the range limitations. By default, this feature is turned off.

To turn the Out of Range feature on, remove all the coasters from the charging base or simply unplug the power supply that is connected to the charging unit. Wait for the demo page to stop (about 7 seconds). Press "1248" followed by "ENTER." Press "ENTER" again at the beep type prompt. Next, type in the code "9494" followed by "SEND." All the coasters will light up confirming that the programming was received. To test the coasters, unplug the power supply that is connected to the DataPage Lite Transmitter. After 30 seconds, all the coasters will play a melody since they are not receiving a signal from the transmitter. Return all the coasters to the charging base or plug the power supply back in. The coasters are ready to receive a page with the Out of Range feature turned on.

Follow the same procedure as above to turn off the Out of Range feature using the code "9393" instead of "9494."

### 3.4 CHANGING THE ALERT MODE

Coasters may be programmed to respond to a page by vibrating, flashing lights, flashing and beeping, flashing and vibrating, OR flashing, vibrating and beeping. By default, the coasters are programmed to flash and vibrate for 3 minutes.

To change the alert mode, follow these instructions: Remove all the coasters from the charging unit or unplug the power supply that is connected to the charging base. Wait for the demo page to stop (about 7 seconds). Press "1248" followed by "ENTER." Press "ENTER" when asked for the beep type. For the message, enter the code that corresponds to the alert that you want. (See below.) For example, if you want the coasters to Flash only, press "1248-ENTER-ENTER-9797-SEND." After sending the code, the lights on all the coasters will flash to indicate the programming was received. Return all the coasters to the charging base or plug the power supply back in. The coasters are ready to receive the page with the new alert.

Vibrate Only	"9292"
Flash & Beep	"9595"
Flash & Vibrate	"9696"
Flash Only	"9797"
Flash, Vibrate & Beep	"9898"

### 3.5 AUTO LOCATE FEATURE

This feature causes ALL coasters (that are not on the charging stack) to signal at once. This feature is useful when you are closed and would like to locate any misplaced coasters around your restaurant. To locate ALL coasters, press "1249" followed by "SEND." Any coaster not on the charging stack will signal. Search the restaurant and its perimeters for missing pagers.



## 4 SYSTEM OVERVIEW

### 4.1 DESCRIPTION

The Datapage Lite is a desktop transmitter that can be used to transmit to up to 9999 coasters. This transmitter can also transmit an out of range signal. If enabled, when coasters are out of range of the transmitter they play a melody (ie sing).

### 4.2 RANGE EXPANSION

The range and performance of this equipment can be improved by the addition of more efficient antennas.\* These can be installed either inside or outside the building and are connected to the transmitter with 50 OHM coaxial cable.

The center-fed half wave dipole, measuring approximately 12 inches from tip to tip, will provide excellent all round local signalling. It is a light duty antenna suitable for sheltered environments/internal installation (LUHFDP). It includes a 15 foot cable.

NOTE: High frequencies can equate to high power losses. Always use quality cable. RG58 is only acceptable on cable runs of up to 5 meters (16.4 feet.) We recommend RG213, or equivalent, on greater lengths. If in doubt consult your dealer.

*\*Subject to license conditions. Specifically, mounting height and Effective Radiated Power (ERP).*

### 4.3 IMPORTANT INFORMATION

It is the purchaser's responsibility to determine the suitability of this equipment and its derivatives for any given application.

Good working practice dictates that a suitable system installation log must be generated, together with a record of the dates when the system has been manually checked, (with the aid of signal strength meters, etc.) enabling the system performance to be compared with the original installation data.

### 4.4 SAFETY INFORMATION

These products are designed to operate safely when installed and used according to general safety practices. The following requirements should be observed at all times:

Do NOT subject this equipment to:

- Mechanical shock
- Excessive humidity or moisture
- Extremes of temperature
- Corrosive liquids

This equipment is designed for indoor use, unless expressly stated otherwise, and must not be used in classified Hazardous Areas, including areas containing explosive or flammable vapors, unless express authorization has been given in writing by the manufacturer. If in doubt, consult your local product dealer for further information.

Do not obstruct any slots or openings in the product. These are provided for ventilation to ensure reliable operation of the product and to protect it from overheating.

### 4.5 CARING FOR TRANSMITTER

Only use a damp cloth for cleaning (not liquid or aerosol-based cleaners), and ensure that any power is removed from the unit prior to beginning the cleaning operation.

Removal of covers from the equipment must only be undertaken by authorized service personnel, who must ensure that power is isolated prior to removal.

### 4.6 LIABILITY

Scope and Microframe do not accept liability for any damage or injury caused as the result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended, and that it is the correct item of equipment for the required task.

### 4.7 WARRANTY INVALIDATION

Alteration or modification to any part of this equipment, without the prior written consent of the manufacturer, will invalidate all manufacturer approvals and warranties. No adjustments can be undertaken except by qualified and licensed persons as defined by the FCC Rules and Regulations. Operation of altered equipment can result in fines, imprisonment, and/or confiscation of such equipment.

### 4.8 SERVICE INFORMATION

If you experience a problem with your equipment, please contact Microframe at 1-800-635-3811.

# MINI DIPOLE ANTENNA MOUNTING

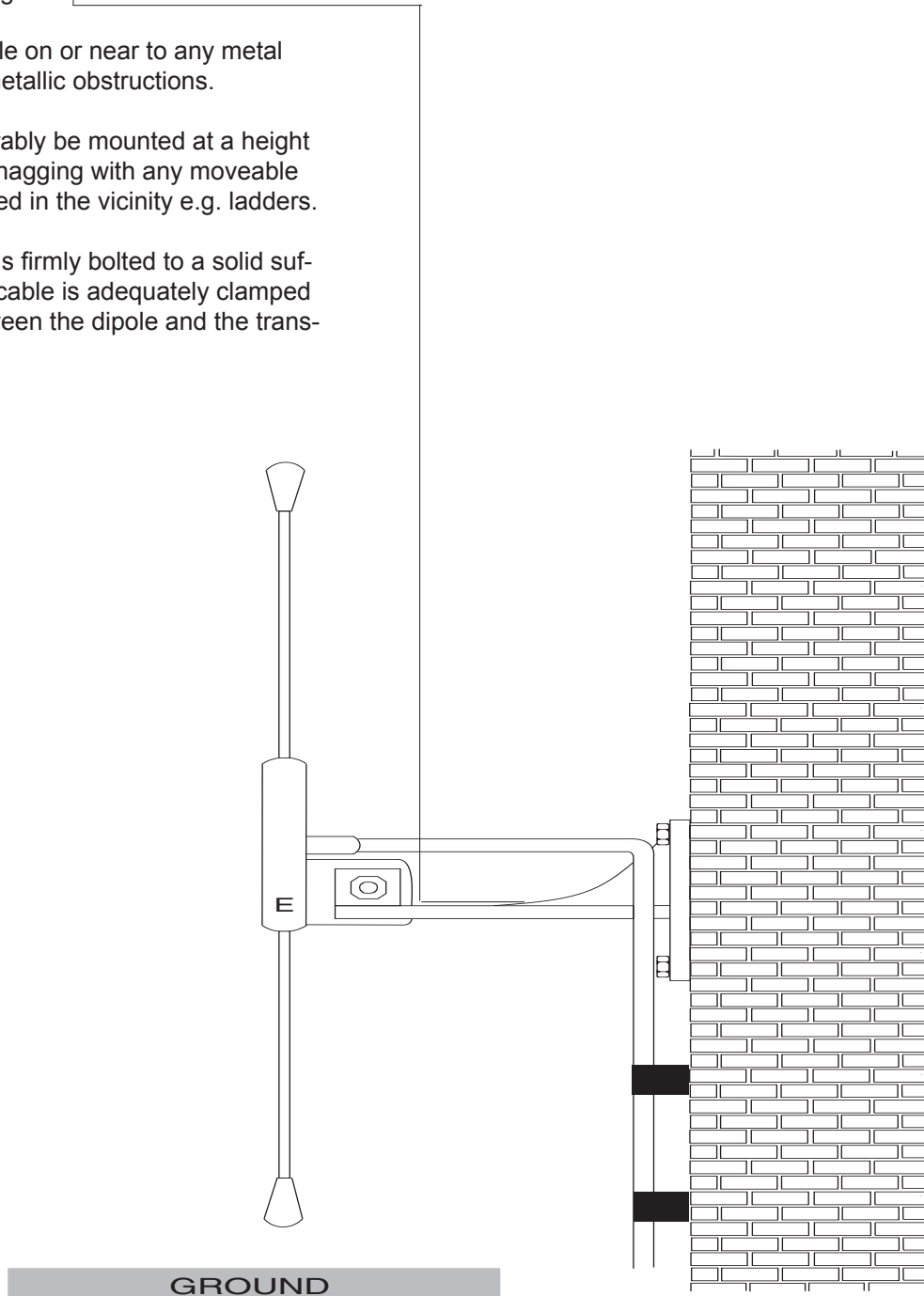
## Optional Range Extender

For optimum operation, the dipole radiators must be positioned **vertically**, with the "E" symbol facing downwards towards the ground.

Avoid mounting the dipole on or near to any metal girders, pillars or other metallic obstructions.

The dipole should preferably be mounted at a height which avoids potential snagging with any moveable objects that might be used in the vicinity e.g. ladders.

Ensure that the bracket is firmly bolted to a solid surface and that the feeder cable is adequately clamped along its entire run between the dipole and the transmitter/receiver.



B3100\AX\9700



Microframe Corporation  
604 S. 12th Street  
Broken Arrow, OK 74012

Tel: (918) 258-4839  
Toll Free: 1-800-635-3811  
Website: [www.microframecorp.com](http://www.microframecorp.com)  
E-mail: [support@microframecorp.com](mailto:support@microframecorp.com)