Scope

DataTrack 20 Waiter Call

Installation and User Manual

PREFACE

Important Installation Information

It is the purchasers' responsibility to determine the suitability of this equipment and its derivatives for any given application, Scope cannot give specific advice in this manual, as each use will require independent evaluation.

Scope has, wherever possible, employed extra safeguards or designed optional equipment to further monitor the system's performance. Certain system installations, operational requirements or budgets may, however, limit the effectiveness of these safeguards. Again, the suitability of the system for any given application must therefore be decided by the installer and their customer, relative to the application and risk.

Licence

This equipment is cleared for use within the USA under a license assigned to the exclusive importer, PIPS Holdings Inc. License No. 950415906 issued on 06/26/1995 which expires on 06/26/2000. Certain restrictions apply in respect of power output and antenna installations.
Alternative frequencies are available by formal license application (Form 600) via the FCC. These will not be subject to the same restrictions as the standard assigned license. You should obtain the FCC Rules and Regulations, Title 47, Part 80 to End, including Parts 90 and 95, available from the US Gov. Printing Office, GPO Bookstore, FCC Office or www.fcc.gov/oet/info/rules/

Important Safety Information

Scope 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.

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.

PREFACE

Equipment Applications

It is the user's responsibility to determine the suitability of the Scope products for any given application. Scope, including its subsidiaries and Distributors, cannot provide specific advice within this manual, as each application will require independent evaluation. Common sense dictates that certain applications may require back up systems to cover in the event of mains or equipment failure. All applications should be thoroughly assessed by the installer in conjunction with the customer so as to minimize risk. Scope has no control of the use and application of the frequencies issued by the FCC. Some equipment that is individually licensed may have a greater degree of protection than other equipment that is operated on a FCC License Assignment basis. The following information, however, may be of benefit.

Equipment Testing.

Range tests should be carried out at least once a week on portable radio equipment, more often when critical criteria apply. This should involve testing the unit past the limit of its required working range. Good working practice dictates that a suitable system installation log, covering both portable and fixed equipment must be generated, together with a record of the dates when the system has been manually checked and/or serviced, (with the aid of suitable test equipment etc.) enabling the system performance to be compared with the original installation data.

The frequency of the tests required will vary between applications. If portable equipment has been dropped or is worn by a person involved in an accident, the unit should be tested again before re-use. It must be stressed that the physical range tests are essential and that any construction work or movement of plant or equipment could alter the signaling capability of the unit. Radio equipment, like any other requires servicing from time to time to ensure that it is operating to its optimum performance. It is therefore essential that equipment is inspected and tested by authorized service centers at least once a year.

Literature

Scope Marketing (Communications UK) Ltd, the manufacturer, in conjunction with it's distributors operates a policy of continual improvement, and therefore reserve the right to modify or change any specifications without prior notice.

While every possible care has been taken in the preparation of this manual, Scope does not accept any liability for technical or typographical errors or omissions contained herein, nor for incidental or consequential damage arising from the use of this material.

Installation

Installation must only be undertaken by an Approved contractor, who shall ensure that all work is carried out in compliance with the appropriate State and Federal Regulations. For mains powered equipment, a readily accessible isolating fuse or socket must be located within 1 meter of the equipment.

Liability

Scope does not accept liability for any damage or injury, howsoever 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.

PREFACE

Warranty

This product is warranted as free from defects of workmanship and materials for a period of one year from the original purchase date. During this time, if there is a defect or malfunction of this product, Scope will, with proof of purchase, repair or replace at its discretion any defective parts, free of charge. This does not include where the adjustments, parts and repair are necessary due to circumstances beyond the control of Scope, including but not limited to fire or other casualty, accident, neglect, abuse, abnormal use or battery leakage damage.

There are no other expressed or implied warranties except as stated herein, and those excluded include those of merchantability and fitness for a particular purpose. In no event will Scope or any of its agents be liable for direct, indirect, special incidental or consequential damages resulting from any defect in the product, even if advised of the possibility of such damages.

The warranties and remedies set forth above are exclusive and in lieu of all others, oral or written, expressed or implied. No Scope distributor, dealer, agent or employee is authorized to make any modification, extension or addition to this warranty.

Some states do not allow limitations on how long an implied warranty may last and some states do not allow exclusions or limitation of incidental or consequential damages.

Warning ! No User Serviceable Parts

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.

System Overview

The Scope DataTrack Waiter Call is a desktop radio transcoder that can be used to transmit numeric and multi-call/pulsed vibrate messages direct to pocket pagers carried by individuals or entire groups. The system has 14 individual call buttons that can transmit any of three different call types direct to the user's pager.

Options

1) Desk mount unit with right angle antenna. **Model DTUSAWCD**
2) Wall mount unit with bracket kit and straight antenna. **Model DTUSAWCW**
3) Both the above systems can also be ordered with Single Call (**S**) software*

* add **S** suffix to part number e.g. **DTUSAWCDS**

Base Equipment type & description:	**DataTrack Waiter Call, desktop paging transcoder**
Transmitter FCC ID:	**JRNUSADATALINK**
Transmitting Frequency:	**457.600 MHz or 457.575MHz***
Effective Range:	**Up to 1 mile with standard aerial◆**

*or as specified on order documentation
◆optional external aerials and amplifiers available for greater range

Section 1: Installation

Location of the hardware

Desk mounted units

1 Fit the right angle antenna to the BNC connector at the rear of the unit. Twist the collar clockwise until it locks into place. Ensure the antenna is in the upright position (see diagram 2, page 7).

2 Fit the power connector into the socket provided at the rear of the unit. Ensure this is pushed in as far as it will go. Plug in the AC adaptor to a suitable mains (110V ac) wall outlet.

3 Check the location of the DataTrack unit, observing the recommendations detailed on page 6.

Wall Mounted Units

1 Identify a suitable location for fixing the unit, observing the recommendations detailed on page 6.

2 Ensure that a minimum of 8 inches beneath the intended location is left clear for the antenna, and check that the power cable, when fitted, is within reach of a mains wall outlet.

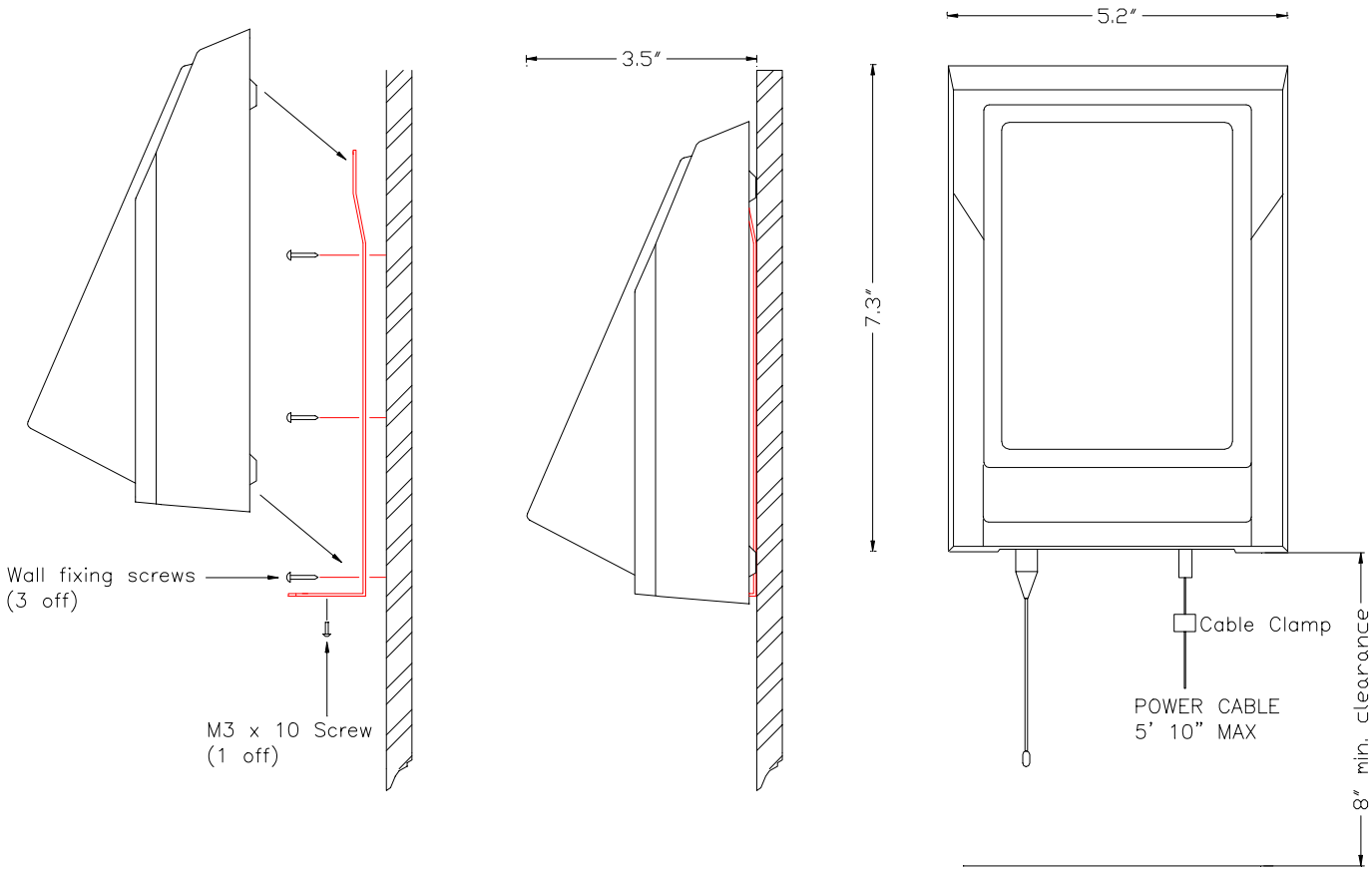
3 Using the bracket provided as a template, mark out the position of the three holes. Check that the bracket is vertical prior to fixing. Drill and fix the bracket to the wall using suitable wall plugs and fixing screws.

4 Offer up the DataTrack unit and slide down onto the bracket, checking that the lugs on the bracket fit either side of the lip on the DataTrack base.

5 Fit M3 screw to the base of the unit and tighten until the bracket is locked in place.

6 Check that the unit is secure, then fit the antenna and power connector (as in 1 & 2 “Desk mount units” above). The power cable should be adequately clamped to the wall to prevent accidental removal.

Diagram 1: Wall mounting the DataTrack unit



Some major points to consider when installing equipment:

1 Avoid placing the DataTrack in the immediate vicinity of telephone exchanges or computer equipment.

2 Also remember that the performance of the system will be affected by the type of material the unit is mounted on and its surroundings.

The following is a list of materials that this transmitter will be adversely affected by if placed in close proximity to:

a) Foil backed wallboard
b) Metal mesh or wire reinforced glass
c) Metal sheeting, large mirrors or suspended ceilings
d) Lift shafts

All of the above can reflect radio waves and thereby reduce the capability of the transmitter to perform its desired functions.

3 The circuit boards within this equipment may be harmed by Electrostatic Discharge (ESD). There are no user serviceable parts and removal of the unit's cover will invalidate any warranty unless undertaken by an authorized engineer.

4 ***Warning!*** Never transmit without an aerial attached to the transmitter

Operation

Prior to operation, check that the Waiter Call keypad unit has it's aerial correctly fitted and that the 12v power lead is firmly plugged into the socket provided at the rear of the unit.

The red POWER light on the fascia panel will be lit to indicate that the power is connected and the unit is ready for use. If the light is not on, check that the lead is plugged into the back of the unit and the AC adapter supply is fitted to a live mains socket.

Write the names of the servers on the keypad in the white boxes provided. Only use approved markers or wax pencils. Indelible markers will irreparably damage the surface of the keypad.

Standard (multi-call/pulsed vibrate) Software

To call a Server, briefly press the relevant button on the keypad. A red light will come on at the corner of the button to acknowledge the button press and confirm that the message has been transmitted. The light will stay on for around 30-40 seconds after the key press to confirm the server has been called. After this the light will flash for approximately 15 seconds before extinguishing automatically. This helps to prevent the server from being repeatedly called unnecessarily.

When the pager receives the call it will vibrate for a short burst and display the message "---1---" to indicate call type one.

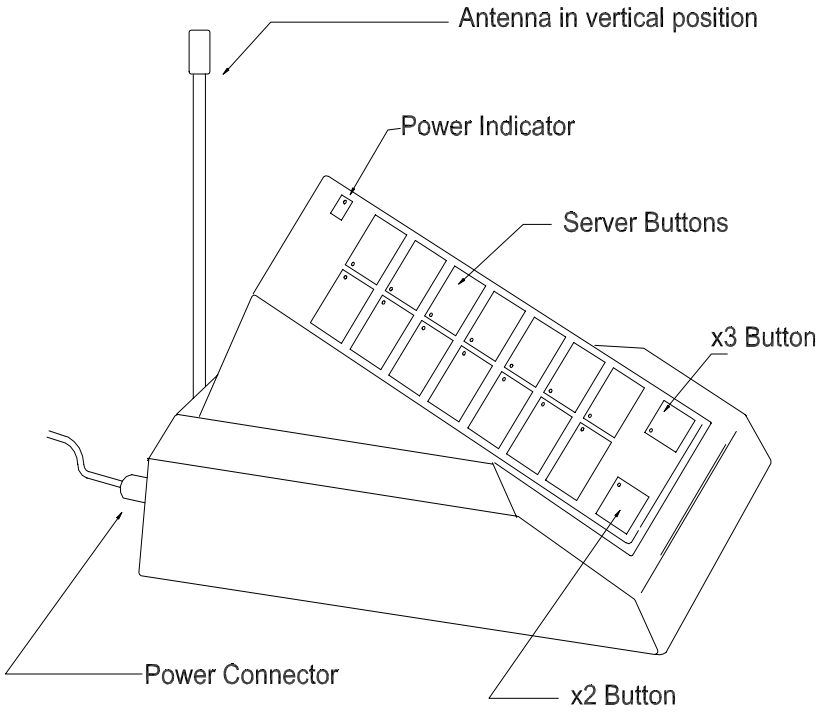
You can send two other call types to the pager by pressing either the X2 or X3 button prior to selecting the server.

The red light will come on at the corner of the X2 or X3 button to acknowledge the button press. This will stay on until the appropriate sever button has been pressed, where upon it will extinguish automatically. In the event that you select an incorrect button pressing the same the button (X2 or X3) will cancel the call type.

When the pager receives the call X2 it will vibrate for a two short bursts and display the message "---2---" to indicate call type two.

When the pager receives the call X3 it will vibrate for a three short bursts and display the message "---3---" to indicate call type three.

Diagram 2: Desk mounted DataTrack configuration



Important Note! In the event that you wish to send multiple calls to different servers one after the other, always start with any calls requiring the X3 prefix. Wait for the X3 light to go out before sending any calls requiring the X2 prefix. Again wait for the X2 light to go out before sending standard calls.

Non-standard (Single Call) software

Operation is the same as the Standard software described above, with the following difference:

For all call types, the pager will only vibrate (or beep) for a single burst. The pager will, however, still show the call type (---1---, ---2--- or ---3---) on it's display.

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Specification

System Operating Voltage:	12 to 13.8V dc
System Power Consumption:	less than 200uA (micro Amp) standby, 300mA transmit.
Transmitter:	
Frequency Range:	450-470 MHz
Channel Spacing:	25 KHz or 12.5KHz
TX Baud Rate:	1200
POCSAG	Numeric or Alpha
FCC Approval No.	JRNUSADATALINK
General:	
Footprint (mm):	220 (L) x 130 (W) x ♦90 (H) max *
Mounting	Desk or Wall mounted with optional bracket

♦excluding aerial

Scope's policy is one of continuous development and specifications are subject to change without prior notice