RANGE & RELIABILITY OF TRANSMISSION

The SYSTEM 2000 is designed for in swim and occasional emergency out of swim use and although the range has been optimised by the precisely tuned aerials, it is totally dependant on bankside and ambient conditions. The FM radio signals will pass through obstructions such as trees, bushes and walls between the transmitters and Rx2000/2004 Mini Receiver but the range will reduce depending on the density of the obstructions and in the case of high banks the range may be severely impaired or blocked completely, it is therefore essential to test reception in every situation. As a general rule, range will be improved by positioning the Rx2000/2004 Mini Receiver at a higher point than the Transmitters particularly if there are obstructions in between.

VALID RANGE TESTING CAN ONLY BE CARRIED OUT IN ACTUAL BANKSIDE CONDITIONS AND THE RESULTS FROM ANY TESTS CARRIED OUT IN UNOBSTRUCTED CONDITIONS OR WITH THE TRANSMITTER OR RECEIVER POSITIONED HIGHER THAN IN NORMAL USE, MAY BE FAR BETTER THAN CAN BE EXPECTED IN AN ACTUAL FISHING SITUATION AND CAN BE TOTALLY MISLEADING.

In common with all radio, the proximity of electricity pylons, strong radio signals from other sources such as mobile phones, varying atmospheric conditions and electrical storms, may all affect reception range and quality adversely.

IMPORTANT

The DELKIM SYSTEM 2000 transmits on 418.00 MHz FM (UK) or 433.92 MHz FM (EUROPE) and it is possible for two different frequency receivers, if placed close together, to interfere with each others reception. It is therefore recommended that if you are fishing next to someone using the alternative frequency, that the receivers only be kept apart by at least 10 metres to avoid any interaction. THERE WILL BE NO INTERACTION WITH RECEIVERS OF THE SAME FREQUENCY.

UNATTENDED RODS WARNING

You are advised to check with Fishery Rules, Local Byelaws and NRA Regulations and consider fish welfare before leaving any rods unattended, no matter for how short a time, even if monitored by the SYSTEM 2000. The volume on the DELKIM Bite Indicators can be set to zero therefore with responsible use the SYSTEM 2000 must be seen as more environmentally friendly than bite indicators at full volume which in certain situations can cause nuisance and annoyance to other anglers and members of the public.

WARNING - DELKIM LTD WILL NOT ACCEPT RESPONSIBILITY FOR THE USE OF OUR RADIO PRODUCTS IN CONTRAVENTION OF LOCAL RADIO REGULATIONS.

GUARANTEE AND AFTER SALES SERVICE

There is a 2 year guarantee against faulty manufacture or component failure. Provided the equipment has not had any seals broken, aerials tampered with or been abused or treated with any substance, DELKIM LTD will repair or replace at our discretion any faulty unit with a new or Service Replacement within 2 years of purchase, provided proof of purchase is retained. All other repairs may be charged at our discretion and any payment required must be made in full before the units can be returned. Please return direct to DELKIM LTD for our rapid repair service with a full description of any fault or via your DELKIM dealer, although this may take longer.

IF ANY UNIT GETS ACCIDENTALLY IMMERSED IN WATER, RETRIEVE AS QUICKLY AS POSSIBLE, SWITCH OFF, REMOVE BATTERY AND ALLOW TO DRY COMPLETELY. SOME APPLICATION OF HEAT MAY BE NECESSARY IN ORDER TO FULLY DRY THE UNIT. DO NOT OVERHEAT OR DRY OVER AN OPEN FLAME. IN THE UNLIKELY EVENT THAT WHEN TOTALLY DRY THE UNIT MALFUNCTIONS RETURN TO OUR SERVICE DEPARTMENT.

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DELKIM SYSTEM 2000

INTRODUCTION - The Delkim System 2000 is digitally coded full information cordless radio system which is very simple to use but has a host of features all with audible and visual information. These new simplified instructions are intended to be user friendly for Anglers.

GETTING STARTED - Before the system can be used the Rx2000/2004 Mini Receiver must first be programmed to recognise the users uniquely coded transmitters (Tx-i or Tx2000).

PROGRAMMING

(Usually required once only unless additional transmitters are to be added to the system.)

- STEP 1 Connect PP3 battery (use only best quality like Duracell MN1604) to Rx2000/2004 Mini Receiver leaving access to battery compartment and turn up volume.
- STEP 2 Switch on into either Hi (+) or Lo (-) scan and press and release programming button, situated inside the battery compartment next to volume control, once with finger or suitable non-metallic object to enter programming mode Channel one LED starts flashing.

PLEASE NOTE THAT THE RECEIVER DOES NOT HAVE TO BE PROGRAMMED TO THE CORRESPONDING LED COLOUR OF THE DELKIM. THE USER CAN CHOOSE ANY COMBINATION I.E. THREE BLUE LED DELKIMS CAN BE PROGRAMMED INTO RED, GREEN & YELLOW ON THE RECEIVER IF REQUIRED.

- STEP 3 If programming of first channel is required, activate the first Delkim, either manually by vibrating the sensor in the case of the Standard/Tx2000, or automatically by just switching on the Tx-i, to transmit the code. If the channel does not require programming, press and release button to skip to next channel. When the code is accepted, it is confirmed by a double tone and the next channel's LED starts flashing.
- **STEP 4** Repeat Step 3 until all required channels are programmed or skipped over. *Programming is only complete when each main channel is either programmed or skipped over and is confirmed visually by all LEDs giving a double flash and audibly by the musical switch-on tone.*

AT THIS STAGE THE RECEIVER IS SWITCHED ON, PROGRAMMED BUT NOT IN RECEIVE MODE. THE ACCIDENTAL SWITCH-ON WARNING WILL NOW SOUND ("PIP-PIP-PIP") EVERY 10 SECONDS UNTIL RECEIVE MODE IS SET (SEE NEXT SECTION) OR THE UNIT IS TURNED OFF.

- STEP 5 Check successful programming by setting RECEIVE MODE on the receiver as described in next section and activating each programmed Delkim in turn as described in Step 3.
- STEP 6 Fit battery inside compartment and slide in battery access door. This will be a tight fit when first fitted but will ease with use.
- STEP 7 Fit mounting clips or Velcro to back of Rx2000/2004 as required.

RECEIVER IS NOW READY TO USE - For programming of extra or additional transmitters see ADVANCED PROGRAMMING.

USING THE SYSTEM 2000

RECEIVE MODE SETTING - EACH AND EVERY TIME THE RECEIVER IS SWITCHED ON FOR NORMAL USE IT MUST FIRST BE PUT INTO RECEIVE MODE OR THE ACCIDENTAL SWITCH-ON WARNING ("pip-pip-pip") WILL SOUND EVERY 10 SECONDS. IF RECEIVE MODE IS NOT SET WITHIN 3 MINUTES OF SWITCHING ON AUTO-SLEEP WILL INITIALISE WITH THE TWO TONE ERROR WARNING - UNIT MUST THEN BE SWITCHED OFF AND BACK ON AGAIN TO USE.

MANUAL SET- Switch on selecting Hi (+) or Lo (-) scan depending on requirements and set volume control. Hi (+) scan is the normal setting and is not related to the switch sensitivity setting on the Delkim. Always use this setting unless continuous runs lasting more than 3 seconds are GUARANTEED in which case Lo (-) may be used to give longer battery life. Continuously activate any one Delkim Tx-i or Delkim Standard/Tx2000 until the receiver responds. The receiver is now in RECEIVE MODE.

AUTO SET - Switch on the receiver, selecting the <u>opposite</u> scan position to that required and after the normal musical switch-on tones are heard, push the switch across to the <u>required</u> scan position quickly without hesitating in the middle or off position and the receiver will be automatically be set. This is confirmed audibly by a series of slowing "pips". The receiver is now in RECEIVE MODE.

SCANNING RATE CHANGE - To change scanning rate whilst in use, switch positions quickly - do not hesitate in the middle or off position or unit will restart. Change of scanning rate is confirmed by double tone.

PLEASE NOTE THAT THE VOLUME CONTROL ON THE DELKIM BITE ALARM IS ADJUSTED INDEPENDENTLY FROM THAT ON THE RECEIVER AND CAN BE SET AT ZERO WHICH IS THE RECOMMENDED SETTING.

ADVANCED PROGRAMMING

To re-enter programming mode to programme additional transmitters, switch on receiver and press and release programming button until LED flashes on the channel which requires programming then skip through programming sequence as before.

To programme extra transmitters (i.e. more than three in a Rx2000 or four in a Rx2004) press and hold down programming button until a single "pip" is heard and release. Channel one LED starts to DOUBLE flash indicating additional transmitter required in channel one. Repeat as main programming.

RESET TO CLEAR PROGRAMME MEMORY

If wrong channel has been programmed in error, either reset memory or if using Tx2000s swap the transmitter over to the correct Delkim. To reset memory switch receiver off and holding programming button down switch on and then release button. All the LEDs will stay alight as long as the button is held down and when released the musical start up tone will be heard, confirming a successful reset. This procedure should always be used if you are in any doubt about what is programmed and wish to start again. Full programming then has to be repeated.

RECEIVER SPECIFICATION SUMMARY

- * Totally cordless system using digitally coded FM radio, microprocessor and surface mount technology.
- * Transmitters either integral (Tx-i) or plug in (Tx2000).
- * Approximately 50 metre range depending on swim conditions & atmospherics confirm reception by testing.
- * Full audible information controlled by the Receiver's volume control tone set using the Delkim bite indicator's tone controls.
- * Full visual channel information by receivers flashing and latching LEDs.
- * Six/eight transmitters can be programmed into the Rx2000/2004 Mini Receiver with no restriction on LED colours.
- * Unique non-repeating transmitter codes ensuring total protection from false activation by other system users.
- * Easy user programming with foolproof audible and visual confirmation.
- * Repeated code transmission for reliable reception.
- * Hi (+) or Lo (-) scan on Receiver gives approximately 400 or 2000 hours with a the recommended Duracell MN1604 battery.
- * Functions confirmed audibly & visually
- * Warnings for low battery, battery fail, accidental switch-on, programming errors etc.
- * Auto-sleep mode..
- * Manual or auto-setting of Receive Mode.
- * Rx2000/2004 Mini Receiver comes with carrying pouch, rod rest and belt/pocket clips.
- * Sealed weatherproof Tx-i & Tx2000 transmitters, shower-proof Rx2000/2004 Mini Receiver.
- * Radio Type Approved and Licence Exempt in most countries, tested to ETS 300-220 with CE approved electronics.
- * 2 years guarantee..

RECEIVER AUDIBLE INFORMATION SUMMARY

PROGRAMMING MODE

Four musical tones - Switch on or programming complete.

Two low tones - Programming error.

Two high tones - Code accepted.

Single "pip" followed by double flashing LED - Auxiliary transmitter programming request.

NORMAL USE.

Three high tone "pips" repeated every 10 seconds - Receiver switched on but Receive Mode not set.

Repeated high tone "pips" with slowing repetition rate - Receive Mode auto-set.

Single pre-set tone followed by normal Delkim tones (LED flashing and latching) - Normal bite indication.

Two high tones - Scanning rate change.

AUDIBLE WARNINGS - NORMAL USE

Single low tone IMMEDIATELY AFTER normal tone - Low battery in receiver. (Receiver & DELKIM LED LATCHED ON)
Continuous repeating low tone - battery fail warning.

Tx-I USE ONLY - Single low tone 20 SECONDS AFTER normal tone - Low battery in Tx-i. (Tx-I LED OUT and the identifying LED LATCHED ON in Receiver - SEE Tx-I INSTRUCTIONS FOR FURTHER INFORMATION.)

Two low error tones whilst in use with no bite indication or led activation - Radio monitor warning.

FURTHER INFORMATION

SWITCH POSITION

CENTRE (Rx2004) or O (Rx2000) - Unit is completely switched off.

BATTERY LIFE OF Rx2000/2004 MINI RECEIVER

It must first be understood that in order to receive a random transmission such as bite indication, the Receiver must be switched on all the time like a mobile phone would be, in order to receive a call. Battery life is maximised by SCANNING RATE.

SWITCH POSITION Hi (+)

<u>PLEASE NOTE</u> THAT THE HI(+) /Lo(-) SCANNING RATE SETTINGS ARE NOT RELATED IN ANY WAY TO THE + /-SENSITIVITY SWITCH SETTINGS ON THE DELKIM BITE INDICATOR.

HIGH SCAN which the normal recommended position to use. The receiver scans on and off at such a fast rate that every single pulse from the DELKIM will be picked up instantly, ensuring that the full benefits of the special sensitivity of the DELKIM Bite Indicator are maintained. High Scan use will give an expected battery life from the Receiver of up to 400 hours.

SWITCH POSITION Lo (-)

LOW SCAN which is only to be used when continuous runs are guaranteed. The Receiver scans on and off at a slower rate and single pulses or even a succession of slow pulses may be missed but a <u>continuous</u> run Is guaranteed to be picked up within a maximum of 2 seconds. Low scan use will give an expected battery life of up to 2000 hours.

<u>WARNING</u> - WHEN TESTING IN LOW SCAN, IT IS POSSIBLE FOR THE RECEIVER TO PICK UP THE SIGNAL INSTANTLY, HOWEVER, THIS IS PURE CHANCE AND MUST <u>NOT</u> BE RELIED UPON.. THIS DELAY OF UP TO 2 SECONDS IS TOTALLY RANDOM AND LOW SCAN SHOULD <u>NEVER BE USED</u> WHERE IT IS IMPORTANT NOT TO MISS A SINGLE PULSE i.e. SNAG FISHING.

BATTERY LIFE FIGURES QUOTED ARE APPROXIMATE, BASED ON AVERAGE ACTIVITY AND THE USE OF A HIGH QUALITY ALKALINE BATTERY SUCH AS A DURACELL MN1604 WHICH IS ESSENTIAL FOR OPTIMUM PERFORMANCE.

RECEIVER LOW BATTERY WARNING

The Rx2000/2004 Mini Receiver automatically tests the battery every time an LED latches on. If the battery voltage drops to a level where reception may become unreliable, a recognisable audible low tone is emitted when an LED is latched on, immediately after the normal sound pulse. It should be noted that when the battery is low the warning will be activated more readily if more than one LED is latched on and possibly not at all with only one LED on. If the low battery warning is activated with only one LED on, you are advised to change the battery as soon as possible.

The Receiver will continue to work satisfactorily for some time after the warning is given and batteries do recover during periods of low activity but once the warning has been given, a new battery should be fitted as soon as possible

NEW BATTERY FAIL WARNING

Once the battery level in the Rx2000/2004 Mini Receiver becomes so low that reception would be unreliable the unit will give a continuously repeated low tone. If this happens the unit must be switched off and a new battery fitted.

IMPROVED RADIO ACTIVITY MONITOR & WARNING

The SYSTEM 2000 uses digitally coded radio transmission and only alerts the user when a valid code is received by the Rx2000/2004 Mini Receiver from one of the users own Transmitters. In common with all digitally coded radio systems the Rx2000/2004 Mini Receiver has to respond to all transmissions received in an attempt to find a valid code. Periodically there may be signals received which are monitored but ignored. These unwanted radio signals are counted by the Receiver and if they reach a level where the battery life of the Receiver may be reduced, a low two tone error warning will be heard from the Rx2000/2004 Mini Receiver without any LED activation.

THIS WARNING IS FOR INFORMATION ONLY AND IS NOW GIVEN ONLY ONCE IN ANY PERIOD OF USE TO STOP IT BECOMING ANNOYING. THE USER CAN RE-CHECK THE CURRENT SITUATION AT ANY TIME BY SWITCHING THE RECEIVER OFF AND BACK ON AGAIN AND RETURNING TO RECEIVE MODE. EVEN THOUGH THE RADIO MONITOR WARNING IS NOW ONLY GIVEN ONCE THE RECEIVER CONTINUES TO CHECK THE BATTERY CONDITION AND THE LOW BATTERY OR BATTERY FAIL WARNINGS OPERATE AS NORMAL.