



FYLDE MICROSYSTEMS Ltd

Technical Manual
for

**TK255/355
Engineering
Software**

INTRODUCTION

What is the Engineering Software?

The Kenwood TK255/355 contains software which is held in FLASH memory. All software may be downloaded from a P.C using a program called KENENG.

KENENG will enable an engineer to -

Download software

Different variants of trunking software such as MPT1343, Traxyx etc is supplied on disk. The appropriate variant may be downloaded from the P.C

Download a channel table

In order to satisfy the many different band plans in the world, the logical channels may be defined in the P.C and downloaded to the portable.

Download a Configuration Table

The TK255 uses a multi-function analogue device for most of the audio processing. The VHF and UHF models require different settings for optimum operation. These settings are downloaded at the Kenwood factory during manufacture.

Download a Header

Some customisation is possible in the TK255/355, which requires engineering knowledge. The header which contains this information may be edited and downloaded.

1 Configuring the software

Files from the KENENG distribution disk may be copied onto a suitable hard disk subdirectory or the program can be run from the diskette.

```
Date : 15 Jul 96   **** KENWOOD CONFIGURATION PROGRAM ****   Time : 11:28:47
+-----+
|          SYSTEM password          [SYSTEM]          |
|          Language                  [0]              |
|          Control Channel SYNC      [0]              |
|          Emergency Call Timer      [ 60]            |
|          Com Port (COM1,2,3,4)     [1]              |
|          |
|          |
+-----+
|          Enter the password which will be used to enter the [G] option
|          from the main menu
|
|          Use a 6 digit word
|
+-----+
| Enter SYSTEM password [      ] |
|
|-----KENWOOD MPT1327 TRUNKED MOBILE/PORTABLE-----| Ver 1.03
```

It is necessary to run KENPASS first in order to define the COM port used in the P.C. KENPASS creates a data file named CONFIG.KEN. The only part of this file which is used by KENENG is the COM port setting. If CONFIG.KEN is not found by KENENG then COM1 is assumed.

(KENPASS is also used by KENPORT, the personalisation program)

2. Running KENENG

```
Date : 24 Jul 96   ***   KENWOOD ENGINEERING TERMINAL   *** Time :08:42:43
+-----+
|
|  Prompts are placed within brackets [  ]
|  Editing Keys on the Keyboard are :
|
|      <ESC> key to quit
|      DEL key to erase all input within brackets
|      to delete one character
|
+-----+
|
|  download_a_Channel_table   download_configuration_Table
|  download_New_software     download_software_Header       eXit
|
|  Enter Option [  ]
|
+-----+
```

2.1 Connecting the portable

The TK255/355 is connected to the P.C serial port using the KPG19 interface cable. The radio must be put into LOAD mode by powering up with the 'CALL' button and the 'F' button pressed at the same time. The radio will indicate 'LOAD'

It is important that when a download is in progress, the operation is not interrupted by removing the cable or disconnecting the power.

The files containing the data use the Motorola 'S' records format. The filename extension is .MIK. The data is read by KENENG, checked and then converted into a compressed binary form. The files are then transmitted to the TK255 at 19200 baud.

There are four menu items -

2.1.1 download_New_software

This option will download new software and default header. Software support, upgrades, and new variants will be distributed by -

- Diskette
- access to the Kenwood BBS system

When the option is selected, a list of files will be displayed. IT IS IMPORTANT TO KNOW IN ADVANCE WHICH FILES CONTAIN APPROPRIATE SOFTWARE.

KENENG can do some simple tests when the data file is read, but care is still required because this is a very powerful facility.

2.1.4 Download a Header

Some customisation is possible in the TK255/355, which requires engineering knowledge. The header which contains this information may be edited and downloaded. A sample HEADER is given in the Network Operators Documentation Pack.

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