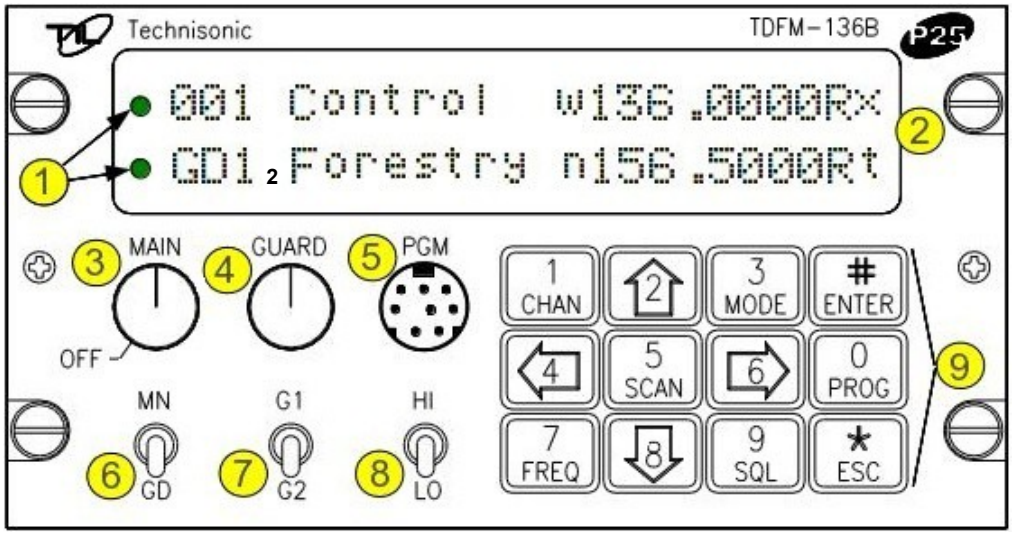
NIICD Modified 7/30/2021

TDFM-136B

Quick Reference Guide

For Radio Firmware: 1.x.x



1. LED channel squelch indicators – Illuminates when signal received (Top: Main/Bottom: Guard).
2. Channel parameter display – (2 line by 24 character LED display) (Top: Main/Bottom: Guard).
3. MAIN Multi-function rotary encoder (default: Main volume, press for ON, press & hold for OFF).
4. GUARD Multi-function rotary encoder (default: Guard volume, press for Squelch defeat).
5. Data port – for use with KVL 3000+ keyloader (for encryption) or TDP-136 Programming software. You need the TiL USB driver pre-loaded on your computer before using the data port.
6. MN/GD (Toggle Switch) – Selects active channel (main or guard) for transmit and memory edit.
7. G1/G2 (Toggle Switch) – Selects guard memory (GD1 or GD2) for transmit, receive and edit.
8. HI/LO (Toggle Switch) – Selects transmit power high (10W) or low (1W).
9. KEYPAD (12 Keys) – Controls radio functions. Three command levels as shown below.

Basic radio functions on L1 — ***Command Level 1: press the desired "Cmnd"'key***

	Cmnd	Function	Edit Keys	OK	Exit
	1 CHAN	SELECT CHANNEL MEMORY	0 PROG TO 9 SQL ENTER THREE DIGIT CHANNEL NUMBER INTO MEMORY (001 to 230)	# ENTER	* ESC
	2	DISPLAY BRIGHTER			
*	3 MODE	***EDIT OPERATING MODE***	3 MODE 2 8 STEP UP/DOWN THROUGH OPERATING MODES **("n" or "D")**	# ENTER	* ESC
*	4	***SCROLL CHANNEL DOWN***	SCROLL DOWN THROUGH PROGRAMMED/ACTIVE MEMORY CHANNELS		
	5 SCAN	SCAN ON/OFF	5 SCAN OR * ESC STOP SCAN		
*	6	***SCROLL CHANNEL UP***	SCROLL UP THROUGH PROGRAMMED/ACTIVE MEMORY CHANNELS		
*	7 FREQ	***EDIT FREQUENCY***	0 PROG TO 9 SQL SELECT Rx FREQUENCY THEN # ENTER REPEAT FOR Tx FREQUENCY	# ENTER	* ESC
	8	DISPLAY DIMMER			
*	9 SQL	***EDIT TONE or CODE***	9 SQL 2 8 STEP UP/DOWN THROUGH SQUELCH MODES. Tx FOLLOWS Rx.	# ENTER	* ESC
		Tone: x - Off, t - On, c - Code; **P25 Code:** m - Monitor (i.e. x), n - NAC only, g - TGID + NAC	2 8 STEP UP/ DOWN THROUGH: **TONES**, CODES, **TGID & NAC** EXAMPLE: Rt 110.9 Rg $37A1 $F56 ($=HEX) or 754 (decimal) 0 PROG TO 9 SQL DECIMAL EDIT FOR NOISE SQL VALUE (00 TO **10**)	# ENTER	* ESC
	0 PROG	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL		
*	# ENTER	***TOGGLE HOME/CURRENT***	TOGGLE BETWEEN 'HOME' CHANNEL AND CURRENTLY DISPLAYED CHANNEL.		
	* ESC	TOGGLE TALK AROUND	FOR DUPLEX CHANNELS: RADIO USES Rx INFORMATION FOR Tx. "UP" ARROW.		

Press [0 PROG] to get to Command Level 2, then press the "Cmnd" key

	Cmnd	Function	Edit Keys	OK	Exit
*	[1 CHAN]	***CREATE or EDIT CHANNEL***	[0 PROG] TO [9 SQL] SELECT CHANNEL MEMORY TO EDIT THEN EDIT: SCAN LIST (L2-5), TEXT DESCRIPTION (L2-6) OPERATING MODE (L1-3), FREQUENCY (L1-7), & SQUELCH (L1-9)	[# ENTER]	[* ESC]
	[2]	COPY GUARD TO MAIN	COPY CHANNEL INFORMATION FROM GUARD TO MAIN (default disabled)		
*	[3 MODE]	***LOCK KEYPAD***	PRESS & HOLD [* ESC] TO UNLOCK KEYPAD		
	[4]	n/u			
	[5 SCAN]	EDIT SCAN LISTS	[5 SCAN] [2] [8] STEP UP/DOWN THROUGH AVAILABLE SCAN LISTS [0 PROG] TOGGLE ENABLE/DISABLE FOR SCAN (BAR OVER DIGIT = DISABLED)	[# ENTER]	[* ESC]
*	[6]	***EDIT CHANNEL TEXT***	[3 MODE] STEP THROUGH THE FOUR CHARACTER GROUPS (**AZ, az, 09, "BLANK"/**) [2] [8] SCROLL UP & DOWN THROUGH CHARACTERS IN SELECTED GROUP [4] [6] MOVE CURSOR LEFT & RIGHT	[# ENTER]	[* ESC]
	[7 FREQ]	CREATE SHADOW	[0 PROG] TO [9 SQL] SELECT CHANNEL MEMORY TO EDIT THEN EDIT: TEXT (L2-6), MODE (L1-4), SQUELCH (L1-9)	[# ENTER]	[* ESC]
	[8]	COPY MAIN TO GUARD	COPY CHANNEL INFORMATION FROM MAIN TO GUARD (default disabled)		
	[9 SQL]	TOGGLE ENCRYPTION	TOGGLE ENCRYPTION ON/OFF (ONLY FOR MEMORIES WITH KEY ASSIGNED)	[# ENTER]	[* ESC]
	[0 PROG]	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL		
	[# ENTER]	SET HOME CHANNEL	SET THE "HOME" CHANNEL INTO MEMORY (FOR MAIN RADIO ONLY)	[# ENTER]	[* ESC]
	[* ESC]	GO TO PREVIOUS LEVEL	GO TO THE PREVIOUS COMMAND LEVEL		

Press [0 PROG] + [0 PROG] to get to Command Level 3, then the desired "Cmnd" key

	Cmnd	Function	Edit Keys	OK	Exit
	[1 CHAN]	SET BOOT CHANNEL	[1 CHAN] [2] [8] STEP UP/DOWN THROUGH BOOT MEMORY OPTIONS	[# ENTER]	[* ESC]
	[2]	ASSIGN KEY BY KEYTAG	[2] [8] PICK MEMORY, [2] [8] PICK KEY, [2] [8] PICK DECRYPT OPTION	[# ENTER]	[* ESC]
*	[3 MODE]	***SET P25 MODE***	[3 MODE] [2] [8] TOGGLE P25 **HEX/DECIMAL** EDIT MODE (**For TGID & NAC CODES**) ($F56/3926)	[# ENTER]	[* ESC]
	[4]	DISPLAY FIRMWARE REV.	[4] [2] [8] STEP THROUGH RADIO MAIN & BOOT FIRMWARE VERSIONS	[# ENTER]	[* ESC]
	[5 SCAN]	SET SCAN PARAMETERS	[5 SCAN] [2] [8] SELECT REVERT MODE THEN [0 PROG] TO [9 SQL] SET TIMERS (REPLY, MONITOR, DELAY)	[# ENTER]	[* ESC]
	[6]	SET PTT TIMER	[6] [2] [8] STEP UP/DOWN THROUGH TIMER VALUES (30, 60, **90 SEC**)	[# ENTER]	[* ESC]
*	[7 FREQ]	***SET SIDETONE AUDIO***	[0 PROG] TO [9 SQL] SET SIDETONE LEVEL (00 TO 80) **(TDFM-136B = 44)**	[# ENTER]	[* ESC]
	[8]	PC COMMUNICATION	MUST BE CONNECTED TO A PC OPERATING TDP-136 SOFTWARE		[* ESC]
*	[9 SQL]	***SHOW TONES/CODES***	[9 SQL] [2] [8] TOGGLE Rx/Tx SQUELCH PARAMETER DISPLAY **(Check Tones)**	[# ENTER]	[* ESC]
	[0 PROG]	GO TO NEXT LEVEL	GO TO THE NEXT HIGHER COMMAND LEVEL **(L4 PASSWORD PROTECTED)**		
	[# ENTER]	n/u			
	[* ESC]	GO TO PREVIOUS LEVEL	GO TO THE PREVIOUS COMMAND LEVEL		

NOTES:

- The channel being edited is determined by the position of the front panel switches MN/GD and G1/G2.
- Current command level is shown at 4th character on bottom row (between GD2 and text).
  Levels 2 & 3 time out. The radio will return to Level 1 if a "Cmnd" key is not entered within 5 seconds of entering that level.
- Download this Quick Reference Guide at www.nifc.gov/resources/NIICD/niicd-documents