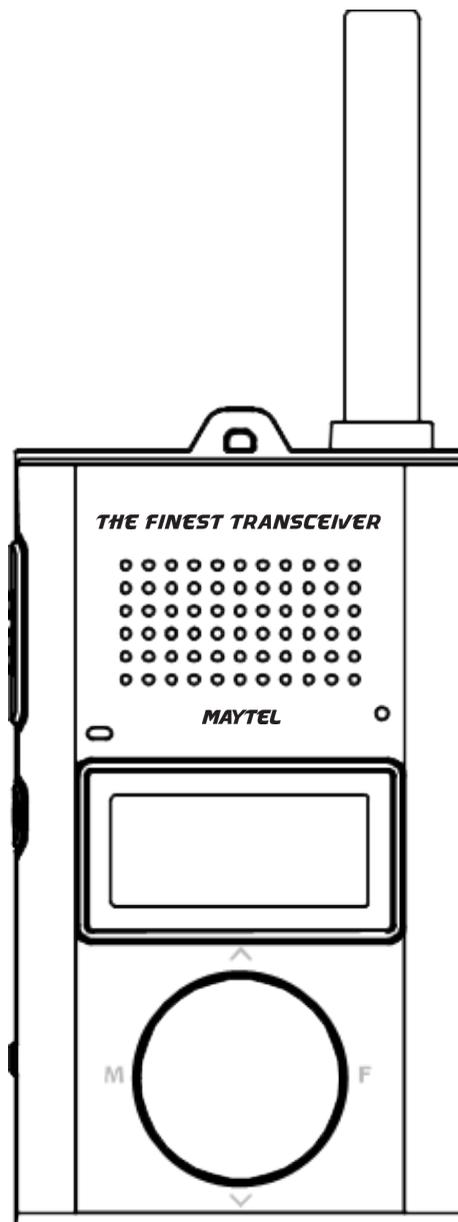


# FT446

The most Finest Transceiver

---

Owner's Manual



# TABLE OF CONTENTES

---

1. INTRODUCTION	2
2. PARTS NAME & FUNCTIONS	3
3. CHARGING THE BATTERY	4
4. BASIC OPERATION	4
• Power On / Off	4
• Adjusti Radio Volume	4
• Transmission	4
• Reception Selection	4
• CH Selection	4
• CTCSS/DCS	5
• Beep (BP)	5
• DTMF (DT)	5
• Roger Beep (RG)	5
• Compander (CP)	5
• Scramble (SR)	5
• Call Ring (CL)	5
• Squelch (SQ)	5
• Scan (SC)	5
• Dual Watch (DW)	5
• VOX (VX)	5
• Squelch Tail (ST)	5
• Key Lock	5
5. MENU SETTING	6
• Menu Overview	6
6. TECHNICAL SPECIFICATIONS	6
7. CTCSS TABLE / DCS TABLE	7,8
8. DECLARATION OF CONFORMITY	9
9. WARRANTY	9
10. WASTE DISPOSAL	9

# 1. INTRODUCTION

---

## 1.1 Introduction

The FT-446 combines quality and versatility into a compact, light and portable professional two-way radio with state-of-the-art design and easy-to-use features.

## 1.2 Key Features

- 52 CTCSS and 208 DCS
- S.Q Level control with 3 steps
- VOX Level control with On/Off
- D.W(Dual Watch)
- Key Lock
- 0.5 Watt High Power Speaker Output
- 3.7V 1,000mAh Li-Polymer High Capacity Battery
- Channel Scan
- Scramble ON/OFF
- RSSI - Receiving signal strength indication
- Battery Level Indicator
- Beep ON/OFF
- Compander ON/OFF
- P/C Programming

## 1.3 Accessories

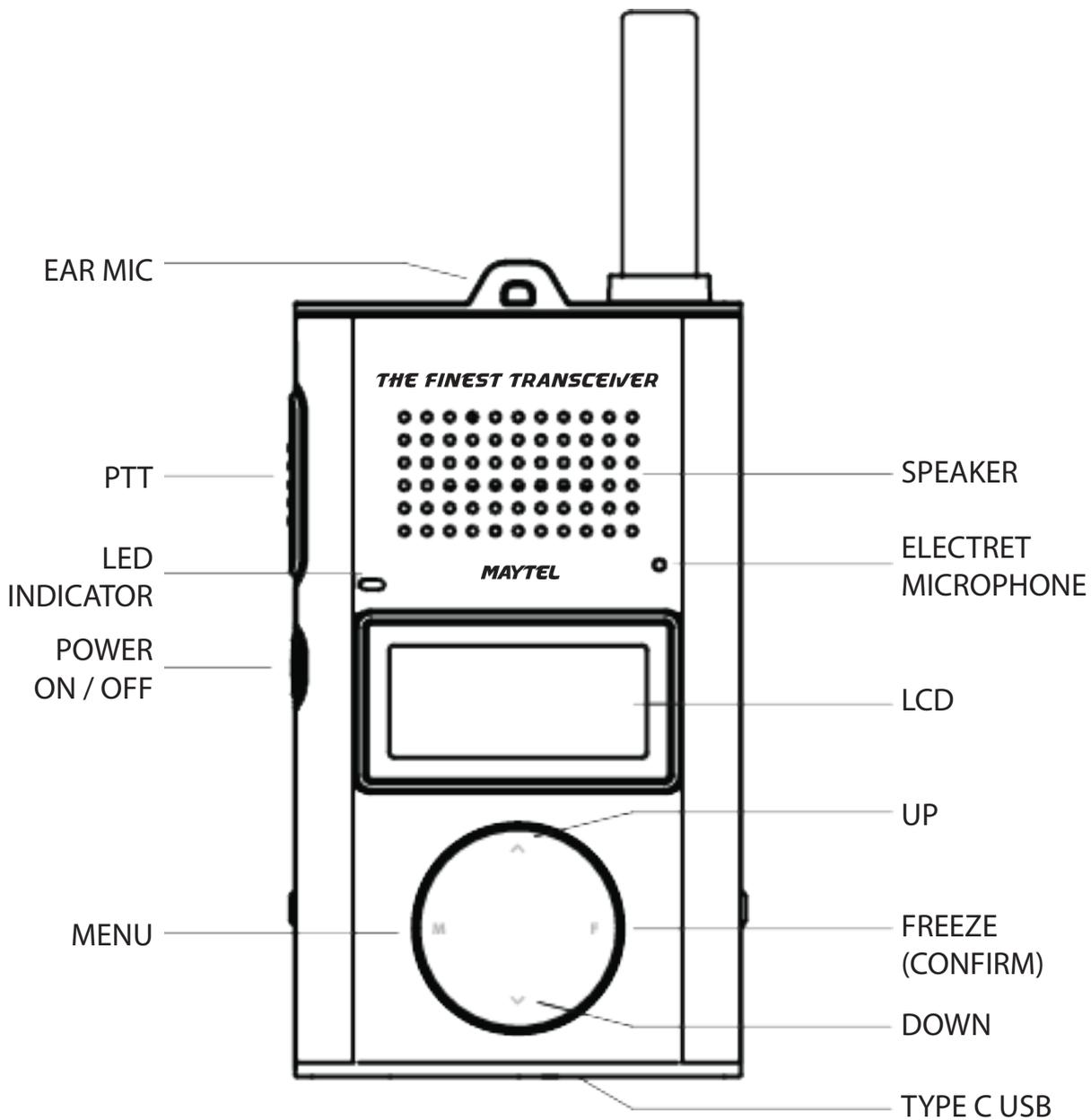
- UC-01F: USB charging cable
- NS-01F: Neck strap
- CC-01F: Poly carrying case with belt clip
- Owner's manual

## 1.4 Optional Accessories

- ESM-01F: External speaker / microphone
- PC-01F: PC Programming cable
- AC-01F: AC Charging adapter
- DT-01F: Desk top charging holder

## 2. PARTS NAME & FUNCTIONS

### 1) Transceiver



Symbole	Description
▬▬▬▬	Signal strength
🔔	Beep
🔄	Scan
🗣️	VOX
🔒	Button Lock
🔋	Battery level with 4 steps
DCS	DCS
📶	Compander

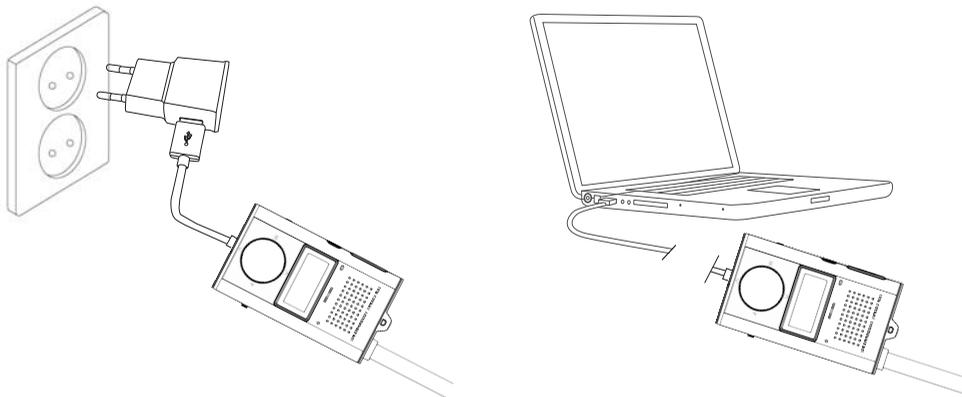
## 3. CHARGING THE BATTERY

---

- 1) Plug the AC adaptor into the AC power outlet.
- 2) Connect the USB Charging cable into the USB type C jack of the unit.
- 3) Charge the radio. It will take 3 to 5 hours for full charging.

or

- 1) Plug the USB part of mini USB cable into the P/C or any other sources of USB port.
- 2) Connect the USB type C cable into the USB type C jack of the unit.
- 3) Charge the radio. It will take 3 to 5 hours for full charging.



## 4. BASIC OPERATION

---

### ■ Power On / Off

To turn the radio on, press and hold the power button which is on the middle of left side longer than 2 sec. And to turn off the radio, press and hold the power button longer than 2 sec.

### ■ Adjusting the Radio Volume

Adjust the volume level by using Up/Dn key (8 steps)

### ■ Transmission

To transmit, check the channel and make sure it is clear.

- 1) To transmit, press and hold the PTT switch, speak thru the microphone with a normal voice.
- 2) To return to the receive mode, release the PTT switch.

### ■ Reception Selection

Select the radio channel you desire. If the CTCSS or DCS I-con is blinking, it is indicating that the other sender is using the same radio channel as you set with other CTCSS/DCS code.

In that case, it is required to change the channel number to other when you transmit.

### ■ CH Selection

Enter Menu mode by press and hold the Menu button longer than 2 sec.

The current CH number is blinking.

Select the CH number by press UP/DN key and fix it by press PTT button.

## 4. BASIC OPERATION

---

### ■ CTCSS/DCS

Enter Menu mode by press and hold the Menu button longer than 2sec.

The current CH number is blinking.

Short press the Menu button while the current CH number is blinking.

The previously selected CTCSS/DCS number is blinking.

Choose the CTCSS/DCS number by press UP/DN key and confirm it by PTT button.

### ■ Beep (BP)

Enter Menu mode by press and hold the Menu button longer than 2sec.

The current CH number is blinking.

Short press the Menu button twice while the current CH number is blinking.

The previously selected BP status is blinking.

Choose BP on or off by press UP/DN key and confirm it by press PTT button.

### ■ DTMF(DT)

Enter Menu mode by press and hold the Menu button longer than 2sec.

The current CH number is blinking.

Short press the Menu button 3 times while the current CH number is blinking.

The previously selected DT status is blinking.

Choose DT on or off by press UP/DN key and confirm it by press PTT button.

According to the repeat of short press Menu button, following Menu is displayed.

Select the Menu status in the Menu mode you desire by press UP/DN key and confirm it by press PTT button.

■ **Roger Beep (RG)** ON/OFF

■ **Comander (CP)** ON/OFF

■ **Scramble (SR)** ON/OFF

■ **Call Bing (CL)** Selection 3 kinds

■ **Squelch (SQ)** Level selection 3 steps

■ **Scan (SC)** ON/OFF

■ **Dual Watch (DW)** Selection

■ **VOX (VX)** ON/OFF

■ **Squelch Tail (ST)** Selection 1 or 2

It is a feature to eliminate the white noise for a moment when sender of transmitting is ended.

It is required to match the ST number between the receiving radio and the transmitting radio.

It has been set at ST 01 as a default.

### ■ **Key Lock**

Press Freeze button longer than 2sec to turn on the Lock.

To turn off the Lock, press Freeze button for 2 sec once again.

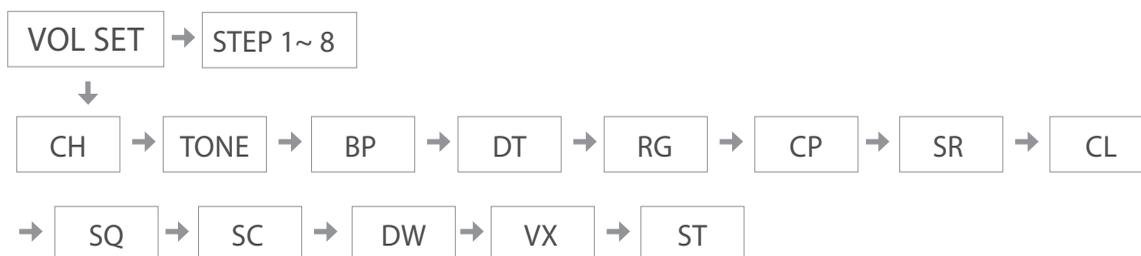
## 5. MENU SETTING

The current CH number is blinking.

Repeat short press Menu until you desire is displayed.

Select the Menu status by press UP/DN key and confirm it by press PTT button.

### ■ Menu overview \*FRS: 25CHs PMR: 8CHs



## 6. TECHNICAL SPECIFICATIONS

### ■ General

Number of channels	8CHs
Frequency range	446.00625 ~ 446.09375 MHz
Battery type	Lithium - Ion
Battery capacity	3.7V / 1000mA
Operating time	20 hours
Stand by time	48 hours

Operating temp. range	-20℃ ~ +50℃
Frequency stability	+/-2.5ppm
Size (W x H x D)	49 x 134 x 15 mm
Weight inc. battery	68 g
Sub tones	CTCSS/DCS

### ■ Transmitter

Output power	0.5W
Frequency error	±2.5ppm
Max deviation	±2.5KHz
Adjacent channel power	> 60dB
Spurious emissions	> -36dBm / -30dBm(1GHz~)
FM Hum and noise	> 40dB
Audio distortion	≤ 3%

### ■ Receiver

Sensitivity(12dB SINAD)	≤ -121dBm
Squelch sensitivity	≤ -121dBm
Hum and noise	45dB
Audio output power	500mW (@80hm)

## 7. CTCSS TABLE / DCS TABLE

---

### ■ CTCSS TABLE

CH	Frequency	CH	Frequency	CH	Frequency
1	67Hz	21	136.5Hz	41	183.5Hz
2	71.9Hz	22	141.3Hz	42	189.9Hz
3	74.4Hz	23	146.2Hz	43	196.6Hz
4	77.0Hz	24	151.4Hz	44	199.5Hz
5	79.7Hz	25	156.7Hz	45	206.5Hz
6	82.5Hz	26	162.2Hz	46	229.1Hz
7	85.4Hz	27	167.9Hz	47	254.1Hz
8	88.5Hz	28	173.8Hz	48	165.5Hz
9	91.5Hz	29	179.9Hz	49	171.3Hz
10	94.8Hz	30	186.2Hz	50	177.3Hz
11	97.4Hz	31	192.8Hz	51	60.7Hz
12	100.0Hz	32	203.5Hz	52	62.5Hz
13	103.5Hz	33	210.7Hz	53	64.7Hz
14	107.2Hz	34	218.1Hz		
15	110.9Hz	35	225.7Hz		
16	114.8Hz	36	233.6Hz		
17	118.8Hz	37	241.8Hz		
18	123.0Hz	38	250.3Hz		
19	127.3Hz	39	69.3Hz		
20	131.8Hz	40	159.8Hz		

## 7. CTCSS TABLE / DCS TABLE

---

### ■ DCS TABLE

CH	CODE	CH	CODE	CH	CODE
1	023	36	251	71	631
2	025	37	261	72	632
3	026	38	263	73	654
4	031	39	265	74	662
5	032	40	271	75	664
6	043	41	306	76	703
7	047	42	311	77	712
8	051	43	315	78	723
9	054	44	331	79	731
10	065	45	343	80	732
11	071	46	346	81	734
12	072	47	351	82	743
13	073	48	364	83	754
14	074	49	365	84	053
15	114	50	371	85	122
16	115	51	411	86	036
17	116	52	412	87	145
18	125	53	413	88	212
19	131	54	423	89	225
20	132	55	431	90	246
21	134	56	432	91	252
22	143	57	445	92	255
23	152	58	464	93	266
24	155	59	465	94	274
25	156	60	466	95	325
26	162	61	503	96	332
27	165	62	506	97	356
28	172	63	516	98	446
29	174	64	532	99	452
30	205	65	546	100	454
31	223	66	565	101	455
32	226	67	606	102	462
33	243	68	612	103	523
34	244	69	624	104	526
35	245	70	627		

## 8. DECLARATION OF CONFORMITY

---

Maytel hereby declares that Maytel conforms to the major characteristic specifications and other relevant specifications given in the Directive 1999/5/EEC and is made after following specifications

EN 60950:2002  
EN 301 489-1 / -5  
EN 300 086-2 V1.1.1 (2001-03)

This product is compliant with the RoHS Directive 2002/95/EC.

Maytel Co., Ltd  
#416 Doosan Venture Digm 126-1, Pyeongchon-dong,  
Dongan-gu, Anyang-si, Gyeonggi-do, Korea (431-070)  
www.maytel.kr  
swmaytel@naver.com

## 9. WARRANTY

---

Maytel will give 12 months warranty against failure made by the manufacturer from the date of purchase. The warranty will not cover damage made by the user, the user opening the equipment, moist, dirt, heat or cold. The warranty will not cover lightning/overvoltage. Please, contact your dealer if a problem with the equipment arises.

## 10. WASTE DISPOSAL

---

Electrical and electronic products can contain materials, parts and units that can be dangerous for the environment and human health. Products marked with the WEEE mark (shown below), shall not be disposed together with your normal household waste. Please inform yourself about the local rules and disposal collection system for electrical and electronic products. The correct disposal of your old product will help to prevent negative consequences for the environment and human health. (WEEE = Waste of Electrical & Electronic Equipment)

