

## POCKET FM v3 – THE SOFTWARE MENU

- Connect the Pocket FM to a power source.
- The device will boot up to the LOCK SCREEN. The default PIN is: 000000.
- Unlock the device by clicking on UNLOCK.
- Make yourself familiar with the MAIN SCREEN.
- Scroll through the menu items with the encoder button.
- Select items by pushing the encoder button.

**ADVICE: If the device gets unresponsive or behaves in an unexpected manner, please power cycle the box.**

### THE MAIN SCREEN

```

STATION ID   Pocket FM
FREQUENCY   100.1MHz
TX POWER    21.9W
SOURCE      SATELLITE
WIFI        MICT_Lab
GSM         o2-de

LOCK        INFO
    
```

- > The STATION ID is the name of your station as it will appear on the display of a radio receiver.
- > The FM frequency you are currently broadcasting on.
- > The current broadcasting power.
- > The current audio source.
- > The name of the currently active Wireless LAN (=Wifi, if active).
- > The name of the GSM carrier (if SIM card inserted & network present).

### THE LOCK SCREEN

To lock the device or change the PIN code.

```

LOCK SCREEN
Change PIN
Lock Screen
BACK

LOCK SCREEN / NEW PIN
Old PIN   000000
New PIN   000000
BACK      SAVE
    
```

Change the lock PIN or lock the screen with the currently stored PIN.

ATTENTION: NEVER LOOSE YOUR LOCK PIN OR YOU WON'T BE ABLE TO UNLOCK THE DEVICE!

### THE INFO SCREEN

General information about your Pocket FM.

```

SYSTEM INFORMATION
2016/09/20 15:41 UTC
SN PFM001
SW Test_2 / OS_2 / App_1
HW 8/2/10
IP 192.168.153.123
GPS 52.5319N 013.4005E
BACK
    
```

- > Current Date & Time in UTC format
- > Serial number of the device.
- > OS & App revision on the device.
- > Hardware revision of the device.
- > IP address (if Wifi is active).
- > GPS location data (needs time & clear sky).

### THE STATION ID SCREEN

Set the station name.

```

STATION ID
Set max. 8 letters
XXXXXXXXXX
BACK CLEAR SAVE
    
```

Set the name of your radio station (max. 8 characters).

This name will appear on FM radio receivers if they support RDS.

### THE FREQUENCY SCREEN

Set the broadcasting frequency.

```

FREQUENCY
100.1MHz
BACK SAVE
    
```

Set the frequency you want to broadcast on.

If you're not sure which frequency to choose, check for a good spot on the FM frequency band with a normal FM radio.

The distance to the next radio stations should be at least 0.4 Mhz. In general, the Pocket FM has the best range when operating on a frequency between 98.0 MHz and 102.0 MHz.

### THE TX POWER SCREEN

Set the broadcasting power.

```

OUTPUT POWER
Set 0 - 100% 100%
Output Power 24.3W
Reflection 1.2W
Temperature 77C
BACK
    
```

Set the broadcasting power.

0% = 0 Watt

100% = 25 Watt (depends on the incoming power current & the antenna)

The higher you set the broadcasting power, the more far you will reach out, but also the higher the power consumption of the device.

If the temperature rises above 75°, place a fan in front of the device.

### THE SOURCE SCREEN

Select the audio input source that you want to broadcast from.

```

AUDIO SOURCE
> ANALOG <
Now playing
BACK

AUDIO SOURCE
> USB <
Now playing
BACK
    
```

First, connect the RCA plugs to your mixer or any other analog audio device. The analog-in of the Pocket FM does not support direct microphone in.

First, insert a USB drive with audio files. Don't place your audio files in sub-folders.

```

AUDIO SOURCE
> STREAM <
Now playing
BACK SETTINGS
    
```

```

STREAM SETTINGS
Domain / IP
66.228.60.216
Port
8002
Path
stream
BACK CLEAR SAVE
    
```

To playback an internet stream, the Pocket FM must be connected to a WIFI in the first place. Please refer to the WIFI part of this manual.

Please be patient - it can take up to 1 minute for the stream module to settle. The screen can get unresponsive during this time.

Switch to ANALOG if tuning is unsuccessful, then back to STREAM.

```

AUDIO SOURCE
> INTERNAL <
Now playing
BACK
    
```

To use internal, you must first place audio files into the internal storage.

To do so, first go to WIFI and activate ACCESS POINT.

Then use a FTP client from your computer to connect to the device.

The servers can be reached at: pmf[serial number].local, e.g. "pmf001.local".

The user is: pmf[serial number], e.g. "pmf001".

The password is the LOCK PIN.

Both IP address and serial number of the box can be obtained at the INFO screen.

```

AUDIO SOURCE
> SATELLITE <
Have Lock
Level 100%
Quality 100%
BACK SETTINGS
    
```

```

SATELLITE SETTINGS
Frequency 12266
Polarisation H
Symbol Rate 27500
Audio PID 0084
BACK CLEAR SAVE
    
```

Before selecting satellite, make sure your satellite antenna is connected and correctly aligned first.

The necessary data for your satellite channel can be obtained

from website like [www.lyngsat.com](http://www.lyngsat.com).

Please be patient - it can take up to 2 minutes for the device to tune

# POCKET FM v3 – THE SOFTWARE MENU

## THE WIFI SCREEN

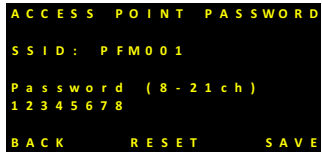
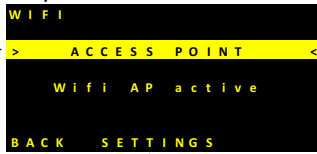
Control your Wireless LAN settings.



Switching between Wifi modes can make the display unresponsive for up to 30 seconds – please be patient.

## ACCESS POINT

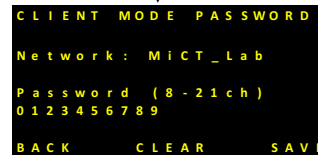
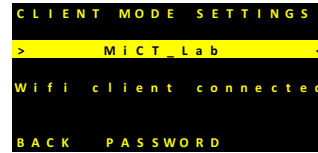
Create your own Pocket FM Wifi network.



SSID is preset based on the serial number of the device and can't be changed.  
The default password is "12345678" and can be changed.  
The minimum length of the password is 8 characters, the maximum length is 21 characters. Encryption standard is WPA2.

## CLIENT MODE

Connect the Pocket FM to an existing Wifi network.



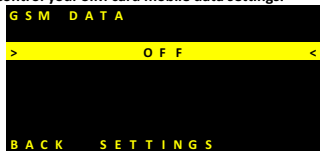
The password must have a minimum length of 8 characters.  
Only WPA/WPA2 encrypted networks are supported.  
No support for open networks, WEP encryption or Captive Portals.  
No support for passwords shorter than 8 characters.

When switching from ACCESS POINT mode to CLIENT MODE, it might be necessary to power cycle the device.

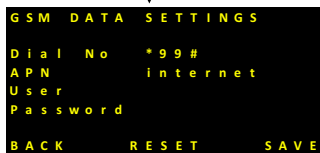
> Please select the desired Wifi network from this list.  
The network must be present upon boot.

## THE GSM SCREEN

Control your SIM card mobile data settings.



Activate mobile Data on your SIM card.



> Please obtain value from your network provider.  
> Please obtain value from your network provider.  
> Please obtain value from your network provider. Leave blank if not needed.  
> Please obtain value from your network provider. Leave blank if not needed.

Power off the Pocket FM before inserting a SIM card.  
Insert your SIM card into a normal phone first and de-activate the PIN lock.  
Insert the SIM card into the Pocket FM.  
Power up the Pocket FM.  
SETTINGS can only be changed when set to OFF.

## POCKET FM v3 – THE SOFTWARE MENU

### Certain functions of the Pocket FM can be remotely controlled via SMS commands. To do so, please follow these steps:

- Power off the Pocket FM
- Insert your SIM card into a normal phone first and de-activate the PIN lock.
- Now, insert the SIM card into the Pocket FM and power it back up.
- The device will detect the card and display the carrier name in the MAIN SCREEN under GSM.
- All commands must begin with the LOCK PIN.

### List of SMS commands:

#### Query system status

Syntax: [PINCODE] STATUS

Example: \*000000 STATUS\*

This will generate an SMS with status information of the device.

#### Activate/Deactivate Darkmode

When in dark mode, the Pocket FM will power off all broadcasting components (FM module, Wifi module) but stay reachable through SMS.

Syntax: [PINCODE] DARK [ON/OFF]

Examples: \*000000 DARK ON\* will activate dark mode.

\*000000 DARK OFF\* will de-activate dark mode.

#### Set broadcasting power

Any full value between 0 and 100%

Syntax: [PINCODE] PWR [DIGIT]

Example: \*000000 PWR 50\* will set the broadcasting power to 50%.

#### Set frequency

Syntax: [PINCODE] FRQ [DIGIT.DIGIT]

Example: \*000000 FRQ 98.7\* will set the broadcasting frequency to 98.7 MHz.

#### Set input source

Syntax: [PINCODE] SRC [SOURCE]

Example: \*000000 SRC ANALOG\* will switch the input source to analog in.

[SOURCE] is defined as follows:

ANALOG = analog in

USB = USB drive

STREAM = internet Stream

INT = internal storage

SAT = satellite tuner

#### Activate/Deactivate Wifi Modes

Syntax: [PINCODE] WIFI [MODE]

Examples: \*000000 WIFI AP\* will activate the Wifi module in access point mode.

\*000000 WIFI CLIENT\* will activate the Wifi module in client mode.

\*000000 WIFI OFF\* will de-activate the Wifi module.

#### Activate/Deactivate GSM Data

Syntax: [PINCODE] GSM [ON/OFF]

Examples: \*000000 GSM ON\* will activate GSM mobile data.

\*000000 GSM OFF\* will de-activate GSM mobile data.