



MPIO FY200 User's Manual



Product Specifications


Model Name	MPIO FY200
Compression format	MP3 (8 ~ 320 kbps), WMA (5 ~ 192 kbps), ASF
Built-in memory capacity	128/256/512 MB
LCD display	FSTN type graphical 3-line LCD (Multi-color LED backlights – red, yellow green, orange)
Language support	36 languages
Display language	English
File transfer rate	Max. 4.5 Mbps
Earphone output	12 mW (R: 6 mW, L: 6 mW)
Signal-to-noise ratio	90 dB
Output frequency range	20 Hz ~ 20 KHz
Battery	AAA alkaline battery
Continuous playback time	Max. 14 hours (128 kbps MP3 file playback)
FM frequency range	76 ~ 108.0 MHz
FM output	10mW (R: 5 mW, L: 5 mW)
Signal-to-noise ratio of FM radio	45 dB
Dimensions/Weight	30(W) × 86.2(H) × 16(D)mm / 32g (Battery excluded)

Getting Started

1. Install the MPIO Manager2 (provided with the FY200 Package CD) to your PC.
(For more information on installation, refer to page **.)
2. Insert battery to the FY200.
3. Press the  button in the front panel for a few seconds to turn on the power.
4. Connect the USB cable between PC and the FY200.
(Check the "USB connected" message on LCD.)
5. Run the Manager2 program by double-clicking the MPIO Manager2 icon on desktop.
(If you fail to connect the FY200 and PC, refer to page **)
6. Go to the folder with music files using the PC's Explorer window and select the files to download.
7. Disconnect the USB cable from the FY200.
8. After selecting track by pushing the Joy Stick key of the FY200, click the  button shortly to playback the selected track.

Basics


1. Power on/off
 - 1) Press the  button for a few seconds to turn on the power. The initial window with MPIO Logo will appear.
Press any key again to skip the logo display.
 - 2) Press the  button for a few seconds to turn off the power.
2. Volume Control
 - 3) To increase the volume level: + button
 - 4) To decrease the volume level: - button

! > Press the VOLUME Key for a few seconds to increase the volume fast.
3. Music Playback/Stop
 - 5) After selecting the track by pushing the Joy Stick key, click the  button to playback it.

- Push the Joy Stick key to right/left to playback next track during playback.

 - The intro part of the track is played back when the key is pushed in 10 seconds after playback.
 - The pervious track is played back when the key is pushed 10 seconds after playback.

- Push the Joy Stick key to right/left for a few seconds to perform FF/REW during playback.

 - 6) Press the  button to stop playback.

! > (Insert the figure of 'no track' icon!!!) When this icon appears, it indicates that there is no the saved file. Download files using the MPIO Manager2.

4. Entering/Exiting Folder

7) Enter folder: After selecting the folder by pushing the Joy Stick key to right/left, click the key.

8) Exiting folder: Click the REC key shortly to return to the parent folder.

5. Navigation

1) Push the Joy Stick key shortly during playback to switch to the Navigation mode.



9) After selecting the track by push the Joy Stick key to right/left, click the  button shortly to playback it.

! > Available only in the Playback mode.

!> Press the REC key shortly to return to the playback screen from the Navigation mode.

6. A-B Repeat

1) Press the REC key at the starting point of repeat during playback. The (B) icon will start to blink. (Setting section A)



2) Press the REC key at the ending point of repeat. (Setting section B)

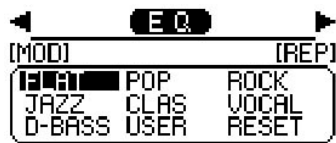


3) Press the REC key again to cancel repeat.

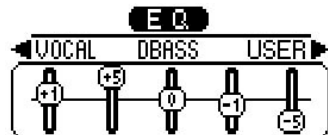
! > Available only in the Playback mode.

7. EQ Control

1) After entering the Menu mode by pushing the Joy Stick key for a few seconds, go to the EQ menu by pushing the Key to right/left. The current EQ mode setting will be highlighted.



- Click the Joy Stick key to move to the EQ selection screen. After selecting EQ by pushing the Joy Stick key to right/left, click the Joy Stick key to control the EQ band level.



- After selecting the EQ frequency band (100Hz/500Hz/2KHz/7KHz/12KHz) by pushing the Joy Stick key to right/left, move the Volume key to adjust each level of frequency band.



- Click the Joy Stick key to save the current settings.
 - ! > Press the REC key to cancel the EQ settings.
 - ! > Select the Reset menu to convert to default.

8. Switching the MP3/RECORD/FM RADIO Mode

Push the Joy Stick key for a few seconds to go to the Mode menu, which enables you to switch modes.

Ex) Switching the MP3 mode to the Recording mode

- Push the Joy Stick key for a few seconds in the MP3 mode. The Mode menu will appear.



- Push the Joy Stick key again to return to the Mode menu.



- After selecting the RECORD mode by pushing the Joy Stick key to right/left, click the Joy Stick key.

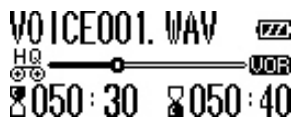



- The MP3 mode will be switched to the RECORD mode.



9. Voice Record

- 1) Go to the RECORD mode.
- 2) Press the REC key and select the Voice Recording. (Figure)
- 3) Press the REC key shortly. The Voice Recording will start.



- 4) Press the  button to pause recording and press the button again to resume it.
- 5) Press the REC key again to finish recording.

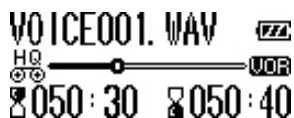
! > The recorded voice files are saved in the voice folder as Voice001, Voice002....


! > You can listen to file during recording (only when AGC is set to off) and control the volume with the Volume key.

10. Encoding

Connect the stereo cable between the FY200 earphone jack and the Line-out of audio device. (When the Line-out does not exist, connect the cable to the earphone jack.)

- 1) Go to the REC mode.
- 2) Press the REC key to select the Encoding function. (Figure)
- 3) Select track to record from audio device to the FY200 and playback it. Press the FY200 REC key to start encoding.



- 4) Press the  button to pause recording and press the button again to resume recording.
- 5) Press the REC key to finish encoding.
- 6) Encoded files are saved in the encoding folder of the REC mode as Encoding001, Encoding002...

11. Dividing Voice/Recorded FM File

- 1) Go to the REC mode. (Figure)
- 2) Press the REC key and divide recording files. (Figure)
- 3) Divided files are saved right behind the original recording files.

! > Only when the REC KEY OPT menu is set to the File Division, The file division will start.



12. FM RADIO

Go to the FM **RADIO** mode to listen to FM radio.

- 1) Channel Search mode

Push the Joy Stick key to the REW position to go to the lower channel.

Push the Joy Stick key to the FF position to go to the upper channel.

Push the Joy Stick key to the REW/FF position for a few seconds to search for the previous/next channel

- 2) Station Search mode

Push the Joy Stick key to the REW position to go to the previous station,

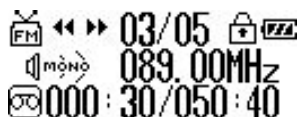
Push the Joy Stick key to the FF position to go to the next station.


! > Click the Joy Stick key shortly to switch the current mode to the Channel Search mode/Station Search mode.

! > When initiating the Station Search mode, the 'No Station' message will appear. It indicates that there is no saved station. In this case, the mode will be automatically switched to the Channel Search mode.

13. FM Record

- 1) Go to the FM mode.
- 2) Press the Recording button to record the FM while listening to FM radio



- 3) Press the  button to pause recording and press the button again to resume recording.
- 4) Press the Recording button again to finish FM recording.

! > Recorded FM files are saved in the FM folder of the REC mode as FM001, FM002...

Mode Details

1. MP3 Mode

1) Button Key Table

Short Key>: Indicates that pressing the Joy Stick key shortly.

Long Key>: Indicates that pressing the Joy Stick key for longer than 1 sec.

KEY Names	Pause		Playback	
	Short Key	Long Key	Short Key	Long Key
Playback/ Pause	Playback	Power off	Pause	Power off
REW	Go to the previous track	Go to the previous track continuously	Playback the previous track	Fast Rewind
Mode	Go to folder	Go to menu	Go to the Navigation mode	Go to menu
FF	Go to the next track	Go to the next track continuously	Playback the next track	Fast Forward
REC	Go to the parent folder	-	A-B repeat	PS + CS + Bass sound on/off
Vol +	Volume up	Increase the volume continuously	Volume up	Increase the volume continuously
Vol -	Volume down	Decrease the volume continuously	Volume down	Decrease the volume continuously

2) Menu Table

! > Press the REC button shortly to return to the parent menu.

MP3 Mode	
MODE (Figure)	Selects a mode.
	MP3 Switches to the MP3 mode.
	RECORD Switches to the RECORD mode.
	FM RADIO Switches to the FM RADIO mode.

EQ (Figure)	Selects the EQ mode by music genre. The EQ mode can be customized by user.					
	NORMAL	Plays in the NORMAL mode.				
	POP	Plays in the POP mode.				
	ROCK	Plays in the ROCK mode.				
	JAZZ	Plays in the JAZZ mode.				
	CLASSIC	Plays in the CLASSIC mode.				
	VOCAL	Plays in the VOCAL mode.				
	DYNAMIC BASS	Plays in the DYNAMIC BASS mode.				
	USER	Plays in the USER mode.				
	RESET	Converts to the default EQ settings.				
	TIP>Default settings by EQ band					
		100Hz	500Hz	2 KHz	7 KHz	12 KHz
	NORMAL	0	0	0	0	0
	POP	1	2	1	2	1
ROCK	2	3	2	1	0	
JAZZ	1	-2	2	0	0	
CLASSIC	2	0	0	1	0	
VOCAL	-2	2	3	-2	0	
DYNAMIC BASS						
SOUND EFFECT (Figure)	Selects sound effect. ! > Press the REC key for a few seconds to switch to the PS + CS + Bass Sound during playback.					
	OFF	No sound effect				
	PURE STUDIO	Sets to the Pure studio sound.				
	CONCERT STUDIO	Sets to the Concert studio sound.				
	PS + CS + Bass (Name undecided)	Sets to the PS + CS + Bass sound.				
REPEAT (Figure)	Selects the playback order.					
	NORMAL	Plays in sequence.				
	REPEAT ONE	Repeats the selected track.				
	REPEAT ALL	Loop repeat in sequence				
	RANDOM	Plays randomly				
REPEAT FOLDER	Selects playback of all tracks saved in memory/playback of tracks in the selected folder.					

(Figure)	OFF		Plays tracks saved in memory, regardless of folder location when selecting the NORMAL/REPEAT ONE/REPEAT ALL/RANDOM function.	
	ON		Plays tracks in the selected folder when selecting the NORMAL/REPEAT ONE/REPEAT ALL/RANDOM function.	
STUDY (Figure)	Sets the speed control for foreign language study and the Easy Finder. ! > The Study function cannot be saved after turning the power off. ! > The Speed control can function only in files where the sampling rate is under 22.05 KHz.			
	SPEED CONTROL (Figure)	(50%, 63%, 75%, 88%)	Plays back at a slow speed.	
		(100%)	Plays back at a normal speed.	
		(125%, 150%, 175%, 200%)	Plays back at a fast speed.	
	EASY FINDER (Figure)	Off	Disables the Easy Finder.	
		1 STEP (5 SEC)	Pushing the Jog key skips 1 step for 5 seconds during playback.	
2 STEP (10 SEC)		Pushing the Jog key skips 2 steps for 10 seconds during playback.		
VISUALIZATION (Figure)	Selects the display mode of 3-line playback.			
	FILE INFO	Displays format, bit rate and playback time/track time.		
	STEREO IMAGE	Displays stereo image visualization.		
	WAVE	Displays wave visualization.		
	STATUS	Displays playback status.		
ERASE (Figure)	Erases files saved in memory. ! > Available only in the Stop mode.			
	ERASE FILE	Selects file(s) to erase.		
	ERASE FOLDER	Selects folder(s) to erase.		
	ERASE ALL	Erases all saved files.		
SYSTEM (Figure)	BACKLIGHT (Figure)	COLOR (Figure)	Selects backlight color.	
			RED	Sets the backlight color to red.
			YELLOW GREEN	Sets the backlight to yellow green.
	TIME	Sets the backlight time when touching a button.		

	(Figure)	OFF ~ 30 SEC	Sets the backlight time within the range of 0 ~ 30 seconds (Default is set to 3 sec.)
AUTO PLAYBACK (Figure)	Selects the Auto Playback mode after turning the power on.		
	OFF	After turning the power on, press the PLAYBACK button to playback files.	
	ON	When turning the power on, files are played back automatically.	
RESUME (Figure)	When turning the power on, restores the saved files which played last.		
	INITIAL	Restores the file which played last from the initial.	
	STOPPED	Restores the file which played last from the stopped track.	
AUTO POWER OFF (Figure)	Sets the waiting time for automatic power off when no buttons touches.		
	3 ~ 30 MIN	Sets the time within the range of 0 ~ 30 minutes. (Default is set to 3 min.)	
SLEEP (Figure)	Sets the timer for automatic power off. ! > The SLEEP menu will not saved after turning the power off.		
	OFF ~ 60 MIN	Sets the timer within the range of 0 ~ 60 minutes.	
FADE (Figure)	Increases the volume gradually during playback.		
	OFF	Sounds with the volume preset.	
	ON	Sounds with the gradually increasing volume preset.	
DISPLAY (Figure)	Selects file information to be displayed on the second line of LCD.		
	TAG INFO	Displays ID3 TAG information.	
	FILE NAME	Displays file name.	

	SCROLL WIDTH (Figure)	Selects file transfer rate to be displayed on the second line of LCD.	
		2 ~ 128	Selects the rate within the range of 2 ~ 128.
	INFORMATION (Figure)	Displays the firmware version, total memories, remaining memory information.	

2. RECORD (Voice Recording/Encoding) Mode

!> Download the firmware at our homepage to use encoding function.

1) Button Key Table

Short Key>: Indicates that pressing the Joy Stick key shortly.

Long Key>: Indicates that pressing the Joy Stick key for longer than 1 sec.

KEY Names	Pause		Playback	
	Short Key	Long Key	Short Key	Long Key
Playback/Pause	Playback	Power off	Pause	Power off
REW	Go to the previous track	Go to the previous track continuously	Playback the previous track	Fast Rewind
Mode	-	Go to Menu	-	Go to Menu
FF	Go to the next track	Go to the next track continuously	Playback the next track	Fast Forward
REC	Voice Recording / ENCODING	-	Mark replay / File division	-
Vol +	Volume up	Increase the volume continuously	Volume up	Increase the volume continuously
Vol -	Volume down	Decrease the volume continuously	Volume down	Decrease the volume continuously

2) Menu Table

! > Press the REC button shortly to return to the parent menu

REC Mode	
MODE (Figure)	Selects a mode.
	MP3
	Switches to the MP3 mode.

	RECORD	Switches to the RECORD mode.
	FM RADIO	Switches to the FM RADIO mode.
REPEAT (Figure)	Selects the playback order.	
	NORMAL	Plays in sequence.
	REPEAT ONE	Repeats the selected track.
	REPEAT ALL	Loop repeat in sequence
	RANDOM	Plays randomly
ERASE (Figure)	Erases files saved in memory.	
	ERASE FILE	Selects file(s) to erase.
	ERASE ALL	Erases all files.
QUALITY (Figure)	Sets the quality of recording sound.	
	SQ	Sets the Standard quality. - Voice recording : 8 KHz (32Kbps) - Encoding : 11.025 KHz (64Kbps)
	HQ	Sets the High quality. - Voice recording: 11.025 KHz (64Kbps) - Encoding : 22.05 KHz (96Kbps)
	SHQ	Sets the Super High quality. - Voice recording: 22.05 KHz (96Kbps) - Encoding : 44.1 KHz (128Kbps)
VOR (Figure)	<p>VOR (Voice Operated Recording) function : Saves memory size and prevent unnecessary recording by recording only when the sound is detected.</p> <p>Ex> If you set it to the VOR 5, recording will stop when the sound level is below 5 and the recording will resume when the sound level exceeds 5.</p> <p>! > The VOR function switches to 'off' whenever the power is turned off.</p> <p>! > It's recommended that you do not use the VOR for material recording.</p>	
	OFF (Default) ~ 10	Sets the sound level within the range of off ~10.
AGC (Figure)	<p>AGC (Automatic Gain Control)</p> <p>– Automatic adjustment of amplification level for input signal to be target level</p>	
	OFF	Disables the AGC (You can listen to the recorded sound during recording.)
	ON	Enables the AGC (You cannot listen to the recorded sound during recording.)

REC KEY OPT (Figure)	Selects the REC key function.			
	MARK REPLAY		Press the REC key to use the A-B Repeat during playback.	
	FILE DIVISION		Press the REC key to use the File Division during playback.	
STUDY (Figure)	Sets the speed control for foreign language study and the Easy Finder ! > Study function cannot be saved after turning the power off. ! > The speed control can function only in files where the sampling rate is under 22.05 KHz.			
	SPEED CONTROL	(50%, 63%, 75%, 88%)	Plays at a slow speed.	
		100%	Plays at a normal speed.	
		(125%, 150%, 175%, 200%)	Plays at a fast speed.	
	EASY FINDER	OFF	Disables the Easy Finder	
		1 step (5 sec)	Pushing the Jog key skips 1 step for 5 seconds during playback.	
2 step (10 sec)		Pushing the Jog key skips 2 steps for 10 seconds during playback.		
VISUALIZATION (Figure)	Selects the display mode of 3-line playback.			
	FILE INFO		FILE INFO	
	STEREO IMAGE		STEREO IMAGE	
	WAVE		Displays wave visualization.	
	STATUS		Displays playback status.	
SYSTEM (Figure)	BACKLIGHT (Figure)	COLOR	Selects backlight color.	
			RED	Sets the backlight to red.
		YELLOW GREEN	Sets the backlight to yellow green.	
		TIME	Sets the backlight time when touching a button.	
	OFF ~ 30 SEC		Sets the time within the range of 0 ~ 30 seconds. (Default is set to 3 sec.)	
	RESUME (Figure)	When turning the power on, restores the saved file which played last.		
		INITIAL	Restores the file which played last from the initial.	
		STOPPED	Restores the file which played last from the stopped track.	
AUTO POWER OFF (Figure)	Sets the waiting time for automatic power off when no buttons touches.			

		3 ~ 30 MIN	Sets the time within the range of 0 ~ 30 minutes. (Default is set to 3 min.)
	SLEEP (Figure)	Sets the timer for automatic power off. ! > The SLEEP menu will not saved after turning the power off.	
		OFF ~ 60 MIN	Sets the timer within the range of 0 ~ 60 minutes.
	INFORMATION (Figure)	Displays the firmware version, total memories and remaining memory information.	

3. FM RADIO Mode

1) Button Key Table

Short Key>: Indicates that pressing the Joy Stick key shortly.


Long Key>: Indicates that pressing the Joy Stick key for longer than 1 sec.

KEY Names	Channel Search Mode		Station Search Mode	
	Short Key	Long Key	Short Key	Long Key
Playback/ Pause	-	Power off	-	Power off
REW	Go to lower level channel	Go to the previous channel continuously	Previous Station	Go to the previous channel continuously
Mode	Station Search Mode shift	Go to menu	Channel Search Mode shift	Go to menu
FF	Go to upper level channel	Auto search for the next channel	Next Station	Continue to go to upper level station
REC	Start FM recording	-	Start FM recording	-
Vol +	Volume up	Increase the volume continuously	Volume up	Increase the volume continuously
Vol -	Volume down	Decrease the volume continuously	Volume down	Decrease the volume continuously

2) Menu Table

! > Press the REC button shortly to return to the parent menu.

FM Mode	
MODE	Selects a mode.

(Figure)	MP3	Switches to the MP3 mode.
	RECORD	Switches to the RECORD mode.
	FM RADIO	Switches to the FM RADIO mode.
SAVE CHANNEL (Figure)	Saves channel while listening to FM radio.	
	<p>After selecting the station number, click the Joy Stick key.</p>  <p>! > Maximum 20 stations can be stored.</p>	
SOUND	Selects the FM sound while listening to FM radio.	
	MONO	Sets the sound to mono while listening to FM radio.
	STEREO	Sets the sound stereo while listening to FM radio.
FM band	Selects the FM receiver band. (Standard Korean frequency band extends between 87.5 ~108 KHz.)	
	US/EU/KR/CN (87.5~108 MHz)	Receives the sound within 87.5~108 KHz.
	JAPAN (76~92 MHz)	Receives the sound within 76~92 MHz.
	WIORL WIDE (76~108 MHz)	Receives the sound within 76~108 MHz.
AUTO PRESET	Ignores the existing saved stations and search channels in the band within 87.5~108Khz to save the channels in the station. If the Auto Search and Save runs, up to 20 stations will be saved.	
	! > Note that saved stations shall be deleted while running the Auto Search and Save function.	
	No	Disables the Auto Search and Save.
	Yes	Enables the Auto Search and Save.
SEEK STEP	Pushes the Joy Stick key to select channel movement unit in the Channel Search mode.	
	100 KHz	Moves the FM channel with 100KH unit.
	50 KHz	Moves the FM channel with 100KH unit.
QUALITY	Sets the quality of FM recording sound.	
	SQ	<p>Sets the Standard quality.</p> <ul style="list-style-type: none"> - Voice recording: 8 KHz (32Kbps) - Encoding : 11.025 KHz (64Kbps)

			HQ	Sets the High quality. - Voice recording: 11.025 KHz (64Kbps) - Encoding : 22.05 KHz (96Kbps)
			SHQ	Sets the Super High quality. - Voice recording: 22.05 KHz (96Kbps) - Encoding : 44.1 KHz (128Kbps)
SYSTEM	BACKLIGHT (Figure)	COLOR	Selects backlight color.	
			RED	Sets the backlight to red.
			YELLOW GREEN	Sets the backlight to yellow green.
		TIME	Sets the backlight time when touching a button.	
	OFF ~ 30 SEC		Sets the time within the range of 0 ~ 30 seconds. (Default is set to 3 sec.)	
	SLEEP (Figure)	Sets the timer for automatic power off. ! > The SLEEP menu will not saved after turning the power off.		
		OFF ~ 60 MIN	Sets the timer within the range of 0 ~ 60 minutes.	
INFORMATION (Figure)	Displays the firmware version, total memories, available memory information.			

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment of and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Note :

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.