

### **QMPS**

#### **OPERATION MANUAL**

Panel-Mounted Multi Functional Speaker

Thank you for purchasing Qlight products.

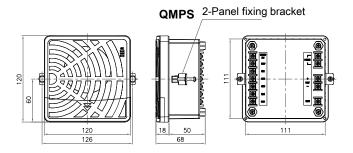
Please read carefully and follow the instruction in order to prevent product damage.

### 1 Product Features

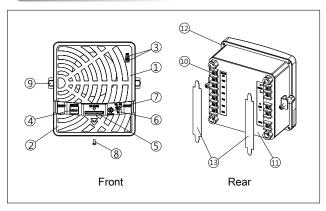
- Can prevent cross talk of different voice environments by selecting an audio signal t for the special environment and condition
- 30 pre-recorded sounds, binary input mode has built-in 30 messages that can be played with switch for sound
- Bit input mode is organized into 6 groups of 5 sound tones for a total of 30 sound tone options. Playback can be selected from one of the
- 5 tones in each group (MP3 file with bit input mode)
- Volume adjustment and sound selection switches located inside the unit
- SD card type can play MP3 voice messages, user can select and change the sound message after record it
- Sound volume : Max 98dB at 1m (Warning Sounds)
   Max 95dB at 1m (MP3 Sounds)
- Materials : Housing-ABS, Cover-ABS
- Protection rating : IP54
- Ambient operating temperature : -25°C to +50°C
- Weight: 0.45kg(DC Type), 0.53kg(AC Type)

## Specifications & Technical Diagram

Model Number	Voltage	Current	Sound Volume	Input Method /# of Chanel
QMPS	DC12V~	Max.0.750A	Warning	Bit Input:
	24V	Max.u.750A	Sounds:98±3dB at 1m	5Ch
	AC110V~	May 0 100A	MP3 Sounds:95±3dB	Binary Input:
	220V	Max.0.100A	at 1m	30Ch

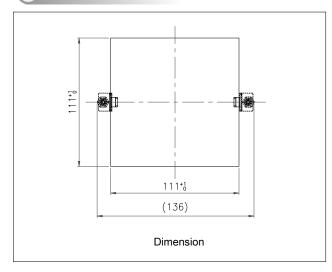


## 3 Part Names



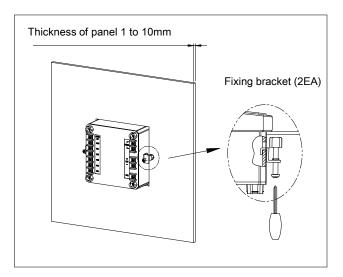
- ① Body
- ② Front Cover
- 3 LED Light(Up-Power, Down-Operation)
- ④ Switch for Sound selection
- ⑤ SD card slot for MP3 recording
- Switch for play Mode selection
- $\ensuremath{\mathfrak{T}}\xspace{-0.05cm} \text{Switch for Volume adjustment}$
- ® Front cover fixing bolt(M3x6)
- Mount Bracket
- Terminal Block(M3 Type Only)
- 11) Rear cover
- Waterproof sealing
- **13** Terminal Box Cover

### 4 Installation

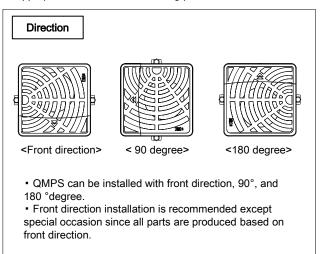


- This panel mounted model is designed for indoor use.
- Please drill a hole in panel before installation. (Please refer to measurements above for installation)
- For outdoor application, please make sure the product is not damaged from rain.
- Please avoid applying the product in environment with moist, dirt, vibration and shock.

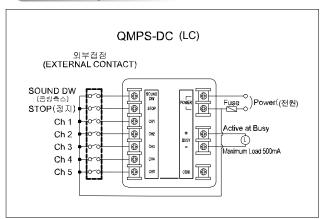


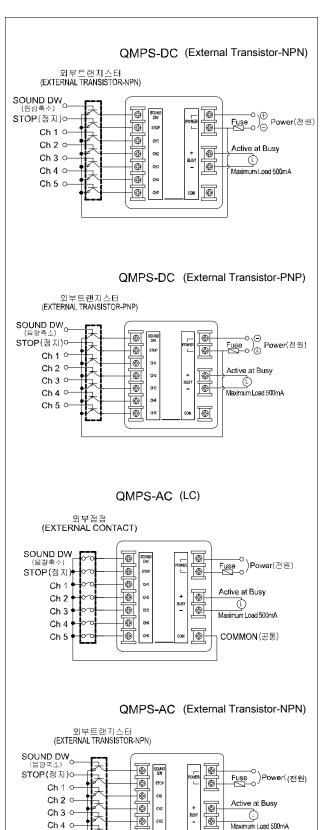


- Fix the product by using two brackets provided with the product. Please confirm if QMPS is fixed well after installation of the product.
- In order to install QMPS, thickness of panel should be 1 to 10mm
- Warning : Product may be damaged if customer uses inappropriate tools or method during product installation.



## Wiring Instructions





Maximum Load 500mA

COMMON(공통)

Ch 5 o

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## 6 Operational Sequence

#### Pre-recorded sound

- ① Set the sound switch no.1 off.
- ② PLAY MODE control switch-Choose play mode(Bit input/Binary input)
- 3 SOUND set-up switch- Select sound group using no.2,3 and 4
- 4 In case of bits input, 5 sound tones can be played(CH1~5)
- (5) For Binary input, 30 sound tones can be played.(CH1~5)

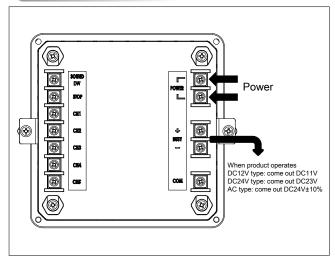
#### MP3(SD card)

- ① Capacity is 32Gbyte.(File Format: Fat32)
- ② Create"MP3\_FILE"folder in SD card and save the file by following below instruction.
- 3 Number of characters shall not exceed 40 alphabets.

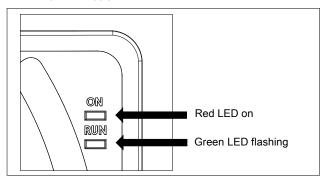


- 4 Insert SD card into the card slot
- (5) Set the sound switch-no.1 ON
- © PLAY MODE control switch-Choose play mode(Bit input/Binary input)
- 7) For bits input, 5 sound tones can be played(CH1~5)
- ® For Binary input, 30 sound tones can be played.(CH1~5)

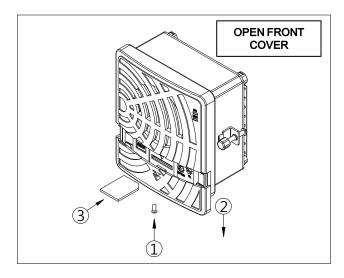
# 7 How to Operate



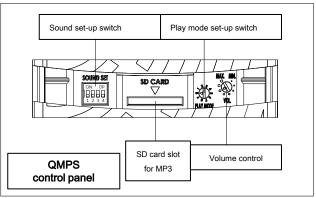
1. Wire power supply into POWER connecter.

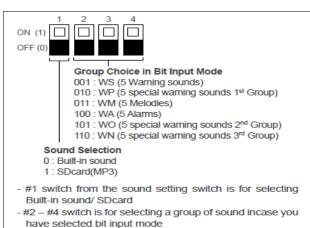


2. Red indicator light turns on.



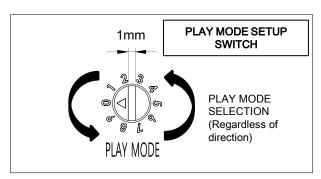
- 3. Turn M3 bolt left by using plus screwdriver.
- 4. Move front cover down.(Warning: Using too much force may be reason of front cover separation while move it down.)
- 5. In case of using pre-recorded sound, set the sound switch-no.1 OFF.





6. In case of using SD card(MP3), set the sound switch-no.1 ON.





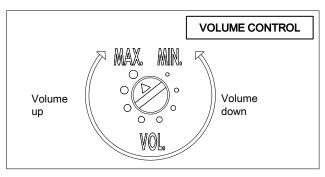
- 7. PLAY MODE setting switch is used to choose the channel input method or select various play modes.
- Rotate each space when choose PLAY MODE by using a flat-head screwdriver regardless of direction.
- 8. Refer to the table below for switch features.
- \*Switch #0 and #9 are not used.

PLAY MODE						
1	Bit Input	5 sounds can be played from the selected group				
	Mode	(choose one group from six groups)				
2	Binary Input	Up to 30 sounds available for each model. Plays				
	Mode	sound only once (sequential signal input only)				
		5 sounds can be played from the selected group				
	Bit Input	(choose one group from six groups)				
	Hold	The sound is repeated if the input signal is				
3	Playback	maintained. (sequential signal input only)				
	Mode	If the STOP signal is inputted, the sound is				
	mode	turned off, and if the STOP signal is disabled the				
		sound is played repeatedly				
		Up to 30 sounds available for each model				
	Binary Input	The sound is repeated if the input signal is				
4	Hold	maintained. (sequential signal input only)				
	Playback	If the STOP signal is inputted, the sound is				
	Mode	turned off, and if the STOP signal is disabled the				
		sound is played repeatedly				
	Bit Input	5 sounds can be played from the selected group				
_	Sound Reduction Mode)	(choose one group from six groups)				
5		You can reduce the volume(15dB) by using a				
		separate volume reduction signal line				
	D: T .	(same as volume reduction signal input)				
	Binary Input	Up to 30 sounds available for each model.				
6	Sound Reduction	You can reduce the volume(15dB) by using a				
	Mode	separate volume reduction signal line				
	iviode	(same as volume reduction signal input). 5 sounds can be played from the selected group				
	Dit Innert	(choose one group from six groups)				
	Bit Input Sequence	If the sound is inputted in a order, it will				
7	Memory Play	remember the order and play each sound about 3 seconds .				
	back Mode	The last input channel is fully played				
		(bit input mode only)				

		In test mode, Ch1 of group is
		automatically played back
8	Test Mode	repeatedly.
		To end the test mode, switch
		back to the other modes.

#### 9. VOLUME CONTROL

- You can adjust the speakers sound output by using the volume dial.



10. Insert flat-head driver into the hole. In case of turn right, volumes up and turn left, volumes down. (Sound is disabled once the dial turns right to MIN.)

### 8 Sound pattern & combination

- 1. Multi functional product has 30 pre-recorded sound tones.
- 2. 30 sound tones in binary input mode supported. Bit input mode has 5 sound tones within 1 group among 6 groups.

Bt input type sound pattern group composition					
	Sound	CH	Sound Tone		
	5 Warning Sounds	CH1	Fire.A-ANG(560Hz-1.5kHz)		
		CH2	Emergency WA-U(Yelp) (600Hz~1.5kHz)		
WS		CH3	Ambulance PI-PO(Hi-low) (450Hz~900Hz)		
		CH4	Pi ik Pi ik(820Hz)		
		CH5	Machinery Fault(1kHz)		
	5 Special Warning Sounds (1st Group)	CH1	Fire.A-ANG(560Hz~1.5kHz)		
		CH2	Abandon Alarm(820Hz)		
WP		CH3	Pi ik Pi ik(820Hz)		
		CH4	High Expansion(1kHz)		
		CH5	7 Short PI. / 1 Long(1kHz)		
	5 Melodies	CH1	Sweet Home		
		CH2	For Elise		
WM		CH3	Cuckoo's Waltz		
		CH4	Piano Sonata		
		CH5	Turkish March		
	5 Alarms	CH1	Beep Interm ttent		
		CH2	Door Chime		
WA		CH3	Phone Ring		
		CH4	PI.PI.PI Short		
		CH5	Tripping Beat		





	GROUP	CH	Sound tone
wo	5 Special Warning Sounds (2nd Group)	CH1	Rel rel rel(730Hz~920Hz)
		CH2	Slow Ambulance PI-PO (820Hz~1.05kHz)
		CH3	Wye yong Wye yong (770Hz~1.2kHz)
		CH4	Phone ring 2(740Hz~910Hz)
		CH5	Fire.A-ANG(770Hz~1.11kHz)
WN	5 Special Warning Sounds (3rd Group)	CH1	Oit Oit(500Hz~1.11kHz)
		CH2	Pi o Pi o(940Hz~2.19kHz)
		CH3	Slow Di o Di o(680Hz~840Hz)
		CH4	Li long Li ling (420Hz~470Hz)
		CH5	911 Siren(150Hz~1kHz)

- 3. Left channel switch allows the user to select from 30 available sound tones.
- 4. Channel switch will be substituted for external wiring in case of LC type products.

	Binary input type sound pattern group composition					
	, , , , , , , , , , , , , , , , , , , ,				soun	a pattern group composition
	ON = 1 / OFF = 0 CH1 CH2 CH3 CH4 CH5			-	15	
ON						
OFF						Sound pattern
						-
NO.	1	2	3	4	5	
0	0	0	0	0	0	No sound
1	0	0	0	0	1	Fire.A-ANG(560Hz-1.5kHz)
2	0	0	0	1	0	Emergency WA-
		U	U	1	U	U(Yelp)(600Hz~1.5kHz)
3	0	0	0	1	1	Ambulance PI-PO(Hi-low)
	0	U	U			(450Hz~900Hz)
4	0	0	1	0	0	Di-ik(800Hz)
5	0	0	1	0	1	Pi-ik Pi-ik(820Hz)
6	0	0	1	1	0	Machinery Fault(1kHz)
7	0	0	1	1	1	Alarm(1kHz)
8	0	1	0	0	0	Sweet Home
9	0	1	0	0	1	For Elise
10	0	1	0	1	0	Cuckoo's Waltz
11	0	1	0	1	1	Piano Sonata
12	0	1	1	0	0	Turkish March
13	0	1	1	0	1	Magic Flute
14	0	1	1	1	0	Badinerie
15	0	1	1	1	1	Pineapple Rag
16	1	0	0	0	0	Beep Intermittent
17	1	0	0	0	1	Door Chime
18	1	0	0	1	0	Phone Ring
19	1	0	0	1	1	PI.PI.PI Short
20	1	0	1	0	0	Tripping Beat
21	1	0	1	0	1	Rel rel (730Hz~920Hz)
22	1	0	1	1	0	Slow Ambulance PI-PO
22	1		1	1	1	(820Hz~1.05kHz)
23	1	0	1	1	1	Wye yong Wye yong(770Hz~1.2kHz)
24	1	1	0	0	0	Phone ring 2(740Hz~910Hz)
25	1	1	0	0	1	Fire.A-ANG(770Hz~1.11kHz)
26	1	1	0	1	0	Oit Oit(500Hz~1.11kHz)
27	1	1	0	1	1	Pi o Pi o(940Hz~2.19kHz)
28	1	1	1	0	0	Slow Di o Di o(680Hz~840Hz)
29	1	1	1	0	1	Li long Li ling(420Hz~470Hz)
30	1	1	1	1	0	911 Siren(150Hz~1kHz)

### 9 Caution

- If using voltage is seriously higher or lower than rated voltage, it can reduce the self-life of the product or can cause a problem on product operating. Make sure the using voltage does not exceed +/-5% of the rated voltage.
- If lens or body of the product is contaminated by chemicals such as thinner, benzene, the product can be damaged, discolored or deformed. Please be careful.
- Do not give strong impact to the product. It can be a reason of wire disconnection or short circuit.

## 10 Trouble Shooting

Situation	Main reason	Solution	
	Wrong Wiring	Making Sure Wiring	
No sound	No Power Supply	Making Sure power Supply	
Sound Tone			
Deterioration	Supplying Voltage Lower	Checking Voltage	
or Volume	Than Rated Voltage	Selection Switch	
Decreasing			
	Signal sound line short	Making Sure	
Output 2 kinds of	Signal seama line shere	Connection	
sounds	Problem Sound tone	Contact Qlight or	
	Selection Switch	Agent	

## Inquiry and Customer Service

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