



VELLUX SERVICE MANUAL
(Version 5.0)

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.

 Caution:

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.



Product Features

Fig. A, B

Retail Box: 14.3 x 10.0 x 2.5 inch (37.5 x 25.5 x 6.7 cm)

1. S/N: A#####VM2200(A: lot + #####: sequential no + VM2200: model)

Fig. C

Master Transmitter (on the basis of VM2200) : 1.3Kg

- VM1100 : No support Tx, One FND set
- VM1200 : No support Tx, Two FND set
- VM2100 : support Tx, One FND set
- VM2200 : support Tx, Two FND set
- VM5000 : support Tx, No FND set

Fig. D

2. Two FND monitor
3. Speaker
4. AC/DC Adapter, Input: AC100-240V, 50/60Hz, 0.3A, Output: 9V, 1A
5. External Antenna

Fig. E

6. Antenna inlet holes
7. Volume button, level 0~3
8. EEPROM port: Reading & Writing of user's setting data form PPS(Product Program Software)
9. On/off switch
10. Adapter inlet hole

Fig. F

Bell (One button call or Three button call Bell) : 50pcs (1pcs: 25g), 2.5Kg

Fig. G

11. VB10W-One calling button with Blue LED flash and WHITE
12. VB30G-Three different calling buttons with Blue LED flash and DARK GRAY
13. VB11R-One calling button with Blue LED flash and Purplish RED
14. VB31S-Three different calling buttons with Blue LED flash and SILVER

Fig. H

15. Dip switch: First 5digit are channel, second 5digit are Bell ID no.

14. S/N: A#####VB10W(A: lot + #####: sequential no + VB10W: model)

Assembly

Fitting

Screw the antenna(5) into the antenna holes(6)

Insert the plug(4) into the adapter inlet hole(10)

Turning power & setting volume

Open the left cover of the Master Transmitter, turn on the On/off switch(9), set the volume level by pushing button(7).

Programming

Writing user's setting data through the EEPROM(8) by a connector with PPS software(connect PC, MS windows XP ONLY).

Setting

On/Off the dip switch(13) on the back of the BELL ID as same as user's setting data.

Hanging the Master Transmitter on the wall

Fit a screw/ hook in a suitable location on the wall. Make sure that the screw/ hook is fixed by method suitable to the wall type and appropriate to the weight of the Master Transmitter.

Fixing the Table paging on the table

Stick the Table paging on a suitable location on the table with tape.

How to use

Operation

Press the BELL one button(11,13)/three buttons(12,14), BELL No as user's setting data lights in the display with sounds.

Three buttons(12,14) show three different meaning, "Call", "Water" and "Bil", it displays BELL No with dots "." For example press the Call button of BELL

No. #100, it display “100”, press the Water button of BELL No. #100, it display with one dot “10.0”, the Bil button displays with two dots “10.0.”

Care Guide

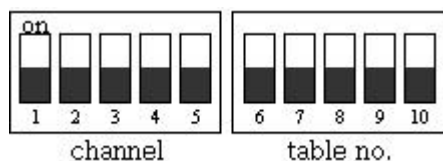
PPS S/W Main screen

Setting zoning

Master Transmitter		Frequency		Display time	No.			Pager Capcode	
You can choose A to H, it means normally eight(8) Master Transmitter can use together at one site. Additional Master Transmitter may need under the environment condition.	A	Now available domestic market frequency : 219.1500/219.2000 MHz. We are developing exports frequency: 433MHz as ISM band.	RX	The display number will flash on 20seconds in the Master Transmitter.	The pager has at least one capcode, normally the pager has 7 digit unique capcode. We support the default capcode, it is possible to change by user. The group means at least 2 more pager have the same capcode, therefore they receive the same display no at the same time.	Group	0100008		
			219.1500MH			1	0400008		
			TX			2	0400016		
			219.2000MH			~	~		
		Table Paging Speed				48	0400384		
		The optimum speed is 1200bps, we can develop under site environment.	1200bps			49	0400392		
						50	0400400		
Channel		Table No.			Display No.			# Paging Receiver	
The Table Paging's channel can set zero(0) to twenty three(23), each one(1) channel connects thirty one(31) table no, therefore you can create #1 to # 744 table no.	1	Table no. means how many table are holding in your area, vellux is providing #1 to #744 tables by one Master Transmitter.	1	15	Each table has an unique 3 digit number to recognize, the numbers will be displayed in the Master Transmitter. Each table number and display number should be in one-to-one ratio. Write down the unique display number, then the last display number is created by sequentially.	if 100 write down	114 created automatically	The display numbers will be displayed in the Paging Receiver. Each display number and each Paging Receiver should be in one-to-one/one-to-multiple/multiple-to-one ratio. Also you can call group paging.	1
	1		16	31		if 200 write down	215 created automatically		2
	~		~	~		~	~		~
	23		1	1		if 1write down	1 created automatically		50
	24		1	31		if 969 write down	999 created automatically		50

- *VM1100, VM1200 systems can set Channel, BELL No(=Table no.) and Display no., Paging Receiver is not applied.
- *VM2100, VM2200 systems can set Channel, BELL No(=Table no.), Display no. and Paging Receiver.
- *VM5000 system can set Channel, BELL No(=Table no.), Display no. on the Pager LCD and Paging Receiver.
- *VBR-100, BELL Sub-Repeater can set Channel and BELL No(=Table no.), Display no. and Paging Receiver are not applied.
- *User can dissuade same BELL No(=table no.) from paging while set a time limit.

Setting Dip switch



Channel setting value: Zero (0) to Twenty three (23)

No.0		No.5		No.10		No.15		No.20	
No.1		No.6		No.11		No.16		No.21	
No.2		No.7		No.12		No.17		No.22	
No.3		No.8		No.13		No.18		No.23	
No.4		No.9		No.14		No.19			

Bell No. setting value: One (1) to Thirty one (31)

No. 1		No. 6		No. 11		No. 16		No. 21		No. 26	
No. 2		No. 7		No. 12		No. 17		No. 22		No. 27	
No. 3		No. 8		No. 13		No. 18		No. 23		No. 28	
No. 4		No. 9		No. 14		No. 19		No. 24		No. 29	
No. 5		No. 10		No. 15		No. 20		No. 25		No. 30	
										No. 31	

- Maximum Channel Number Per Master Transmitter : 0~23 = 24 channel supporting.
- Maximum BELL Number Per Channel : 1~31=31 Bell supporting
- AND, Maximum Bell Number Per Master Transmitter : 24channel X 31 Bell = 744 BELL

Specifications;

Model	Vellux Main TX	Vellux Main RX	Vellux Bell	VBP-3/VHP-3(Pager)
Frequency(MHz)	219.150 ~ 219.225MHz / 433.050 ~ 434.790MHz			
Freq Stability	±7 ppm			
Data Rate	1200 bps			
Channel space	2)25 KHz			
Modulation	± 4.5KHz			
Output Power	10 mW(Max)			
Sensitivity	-118dBm (at 12dB)			-7 uV/m
Power Supply	9V 1A(Adapter)		12V 30mA (A23 1ea)	1.5V (AAA 1ea)
Dimension(mm)	340L*155H*48W		60PI*21W	43L*64H*20W
Low Battery Alert	N/A			Yes
Battery Life cycle	External Power		Max. 8000times (10times per day) 2years guarantee	Max. 30 days
Antenna	External		Internal	