

# **DIP-01 INDOOR / OUTDOOR PANEL**

## **INSTALLATION AND USER MANUAL**





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# **SAFETY WARNINGS**

For your own and the device safety, you should obey the security warnings;

- 1. Read the user manual carefully.
- 2. Read the safety warnings carefully.
- 3. Remarks about Transport, Shipment and Preservation
- During transport and shipment keep the product with its case. The case will protect the product against the physical damages.
- Don't put heavy weight on to the product or the product case. The product might be damaged.
- In case of falling, the product might have permanent damage which will make it non-operational.
- Deformation might be caused in case of extreme air conditions such as hot or cold weather. Life time of the electronic circuits tend to decrease in such conditions.
- 4. Situations that might be dangerous to human or natural environment:
- Beware of the sharp pointed edges of the case
- Recycle the product case in the proper recycling bin.
- 5. Maintenance of the product
- The product doesn't need periodic maintenance. For maintenance and repair please consult to the authorized services.
- By rubbing with dry cloth, you can clean the product periodically.
- You can keep the product in its case, when you are not using it.
- Before cleaning the product, unplug the connection. Be careful that the cleaning material doesn't contain any solvent such as alcohol, gasoline or thinner.
- 6. Place the product on a plain and stable wall.
- 7. To prevent any kind of electrical shock, use the product with its original cable.
- 8. Don't put any foreign substance in the product. And don't try to open it with devices that might cause electrical shock.
- 9. When maintenance and repair are practiced in places other than the authorized services, the product might be damaged.
- 10. Remarks about the energy consumption of the product
- The product is designed to work 24/7. Yet to prevent energy consumption, it should be unplugged when it won't be used for a long period of time. The user should be aware that each of the terminal stations that are left on use energy that is not needed.

In case of malfunctioning please consult to an authorized service.

#### **GENERAL:**

- a) When a visitor touches the blue color button on the device the monitor starts ringing and the screen shows the visitor. During ringing, if icon is touched the conversation starts. If icon is touched the door is opened. Touching icon stops the call any time.
- b) If INDOOR icon located at INTERCOM page of the monitor is touched the screen shows the picture of the indoor camera. Touching icon starts the conversation. icon opens the door and icon ends the connection any time.

c)

INTERCOM OUTER DOOR MESSAGES PICTURES SMART HOME

SECURITY CAMERAS CONCIERGE SETUP CLOSE

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Figure 1. Menu page of the monitor



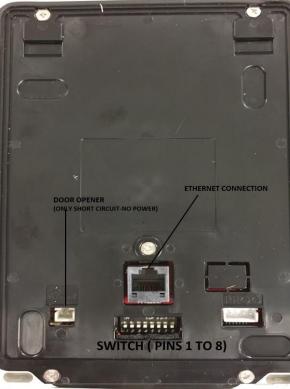


Figure 3: Screen of the monitör



#### 2. CONNECTION OF DIP-01 TO IP INTERCOM NETWORK





Back side of the device with wall mount aparat

Figure 4. Back side of the device

DIP-01 door panel's RJ45 socket located on the back side of the device is connected to a PoE switch with a LAN cable. No need for the connection of any power supply because the device takes the power through the ethernet cable. DIP-01 door panel is installed near to the flat indoor or to the VILLA door (s) with the given screws and pegs.

When the power is given to the device, the button flashes with yellow color about three minutes. When the device becomes ready to use the color of the button becomes blue. If the device has some problems the color of the button becomes red. Then, you should replace the defective device.

Important note: DIP-01 is initially programmed to match with 01 001 room number monitor. Each DIP-01 device should be programmed to match with the corresponding monitors one by one.

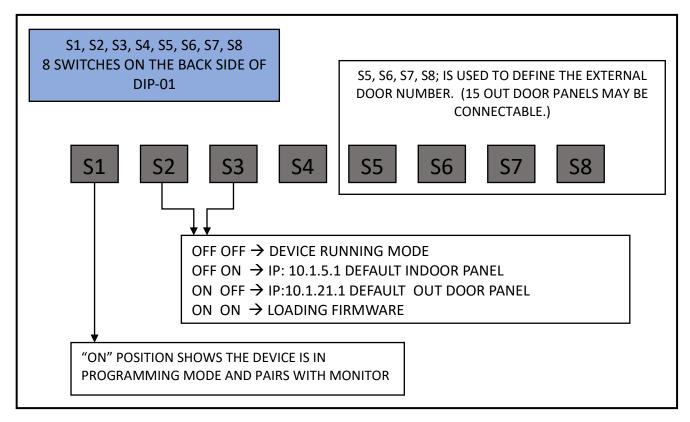


Table 1: Switches of DIP-01 and their fonctions

#### 3) MATCHING A DIP-01 TO AN IP MONITOR:

Each DIP-01 device has to be allocated to a room, and this activity is done only once during installation period. To initiate programming, the device under power is removed from the wall mount apparatus where the programming switches appears. (Figure 4 above shows the back side of the device with the switches. The table 1 summurize the function of the switches.) The following steps is applied to match a DIP-01 to a monitor:

- i) Bring all switches to down (OFF) position.
- ii) Bring Switch 3 to ON position. Button light will flash with a light blue color. When the light becomes blue in about 3 minutes, this step is completed. Then, bring all switches to OFF position. This step matches DIP-01 to the monitor with the number 01 001.
- iii) In order to match the internal door panel to the room device, bring Switch 1 to ON position. Button light will flash with a light blue color for 30 seconds. And waits a message from the room monitor that will be matched.

(If message is not sent within 30 seconds, this activity has to be repeated by making Switch1 OFF and ON again.)

## iv) Enter SETUP/General Settings/Send a message to the apartment door. Tap

icon (Figure 3)

"Message is sent" alert will be seen on the screen. This means that, message is sent to DIP-01 device which is on programming mode



Figure 5. Monitor SETUP page

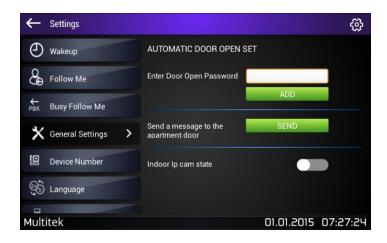


Figure 6. Tap "Send a message to the apartment door"

v) Internal door room panel is reset, the button starts flashing with light blue color in about three minutes. When the device is ready to be used, the button color changes to blue. If the button is tapped, the related room monitor rings.

Using these steps, DIP-01 and the room monitor become matched with each other. When the call button on DIP-01 is tapped, the matched monitor rings and the screen shows the camera of the monitor.

#### 4) USING DIP-01 AS FLAT / VILLA INDOOR PANEL:

#### a) Calling the monitor by touching the button of DIP-01:

DIP-01 has a touchmatic button with a blue color. When the button is touched the color of the button turns to yellow momentarily.

When the button of DIP-01 is touched the matched monitor starts ringing and the monitor screen shows the camera of the panel. By touching icon on the monitor the conversation starts.

- Duration of the conversation is 60 seconds. icon on the monitor ends the connection any time.
- While ringing or conversation, touching icon on the screen opens the door.

#### b) Monitoring DIP-01 camera:

When INTERCOM icon on the menu page of the monitor is touched the calling screen with keypad appears. (Figure 7). INDOOR icon in this page is used to monitor the camera of DIP-01. icon on the new page establishes the voice communication. icon opens the door and icon ends the connection. The maximum conversation duration is 60 seconds (Figure 8).

Figure 7. Connecting to DIP-01 by touching INDOOR icon



Figure 8. The sample screen while monitoring DIP-01.



#### 5) CONNECTION OF DIP-01 TO MULTIPLE DOOR VILLAS:

Some VILLAs may have more than one door and it may be needed to talk/monitor and open the doors.

NOTE 1: If the VILLA has only one door, DIP-01 is connected to the door as INDOOR panel as explained in section 3.

NOTE 2: It is possible to connect up to 16 pieces of DIP-01 to a VILLA (including one INDOOR panel).

NOTE 3: Multitek IP intercom allows to connect up to 98 VILLA network with multiple doors. If the VILLAs have only one door there is no limitation.

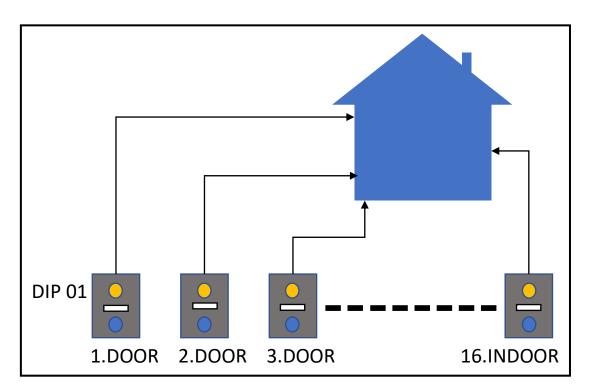


Table 2. Application with many doors.

The door panels are programmed to the VILLA monitors as DOOR 1, DOOR 2, DOOR 3 etc and INDOOR panel. This programming is done during the installation only one time. The device is removed from the wall mount aparat as explained is section 3 to see the switches. The followings is done one by one;

- i) Assign a DIP-01 as indoor panel as explained in the section 3.
- ii) Make all switches OFF. Assign a DIP-01 as outdoor panel as followings by using S5-S8 switches' ON/OFF position according to the table given below:

S5	S6	S7	S8	
OFF	OFF	OFF	OFF	
OFF	OFF	OFF	ON	VILLA 1. DOOR
OFF	OFF	ON	OFF	VILLA 2. DOOR
OFF	OFF	ON	ON	VILLA 3. DOOR
OFF	ON	OFF	OFF	VILLA 4. DOOR
OFF	ON	OFF	ON	VILLA 5. DOOR
OFF	ON	ON	OFF	VILLA 6. DOOR
OFF	ON	ON	ON	VILLA 7. DOOR
OFF	OFF	OFF	OFF	VILLA 8. DOOR
ON	OFF	OFF	ON	VILLA 9. DOOR
ON	OFF	ON	OFF	VILLA 10. DOOR
ON	OFF	ON	ON	VILLA 11. DOOR
ON	ON	OFF	OFF	VILLA 12. DOOR
ON	ON	OFF	ON	VILLA 13. DOOR
ON	ON	ON	OFF	VILLA 14. DOOR
ON	ON	ON	ON	VILLA 15. DOOF

- iii) Bring S2 ON position. The button color turns to light blue color for about 3 minutes. When the color becomes blue color the device is ready to operate. ( After that, bring all switches to position OFF.)
- iv) The same program is applied all DIP-01 panels connected to the doors.
- 6) USING DIP-01 AS THE VILLA DOOR PANELS:

#### a) Calling the VILLA monitor by touching the DIP-01 button:

DIP-01 has a touchmatic button with a blue color. When the button is touched the color of the button turns to yellow momentarily.

When the button of DIP-01 is touched the matched MONITOR starts ringing and the MONITOR screen shows the camera of the panel. By touching icon on the MONITOR the conversation starts.

- Duration of conversation is 60 seconds. Touching icon on the monitor ends the connection any time.
- While ringing or conversation, touching the key icon on the screen opens the door.

### b) Monitoring DIP-01 camera installed as VILLA door panel:

When **INTERCOM** icon is touched on the menu page, a page with a keypad is opened. It is possible to monitor the door panel cameras by dialing villa number (default 01) and then 8xx (xx=01-15 door numbers) and touching call icon. For example, if you dial 01 803 and make call 3. DIP-01 camera is monitored, talked and its door is opened.

**IMPORTANT NOTE:** While **INTERCOM** page is on the screen, if **OTHER CALLS** icon is touched a page with **DOOR1**, **DOOR2**, **DOOR3** icons appears. It is possible to monitor **DOOR1**, **DOOR2**, **DOOR3** door panels by just touching those icons. It is also possible to change the name and door numbers of these icons through visiting **SETUP/ SPEED CALL/ DOOR1**, **DOOR2**, **DOOR3**. After that, one touch on **OTHER CALLS** page brings the door cameras to the screen.

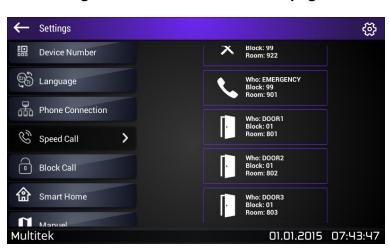


Figure 9. SETUP / SPEED CALL page

#### 7) UPGRADING FIRMWARE OF DIP-01 BY AN SD CARD

The following steps are done:

- i) Take out the ethernet cable of the device.
- ii) Remove four screws and open the back lit and see the SD card holder.
- iii) Insert the SD card with the latest firmware into SD card holder.
- iv) Make all S1-S8 switches to ON position.
- v) Then, insert the Ethernet cable to give the power to the device.
- vi) Wait for 3 minutes. Then, again take out the Ethernet cable, make S1-S8 switches OFF, take out SD card, place the lit back. Give the power again by inserting the Ethernet cable. Three minutes later the device becomes ready to use.
- vii) You program the device as explained in the section 3 as a indoor room panel.

## 8) TECHNICAL FEATURES

Camera : 0.3 Mpixel CMOS with night vision

**TFT Card** : Yes CPU speed : 1.8GHz : 1GB RAM **FLASH** : 4 GB os : Android : TCP/IP **Transmission Connection Protocol: SIP** Voice codec : G.711 Video codec : H.264

Network connection : Ethernet (PoE) Working voltage : 12-18VDC (PoE)

Working current : 190 mA stand-by, 250 mA active

Button type : Capacitive touch

Button color : RGB Working temperature : -10, +65°c

Humindity : %20-95 noncondensed

Installation : Flash mount Colors : Aliminum

Night vision LED : 5 pieces ( ON when the camera is active)

Dimensions : 120x171x20 mm

Protection: IP64 (rain, water and dust protected.)