# VIDEO DOOR INTERCOM
## Installation Manual

| MODEL<br>alfanar VILLASET | ODU-V1 | IDU-TS7 | PS-18E | SWITCH8-POE |
|---|---|---|---|---|
| Version | SH-VIP01A - Version.12 | | | |
| Date | 15 June 2018 | | | |

**Thank you for purchasing alfanar product**
**Please read these User Instructions before using the product and keep for future reference**

(V.08)

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alfanar

# 1. Product Description

ALFANAR IP VILLASET is a color video doorphone set used to monitor, call, intercom and open the door locks. This product set can be used in villas, single houses, hotels, offices etc. giving the user benefits of security and convenience.

alfanar IP VILLASET has optional alarm and smart home features.

# 2. Brief Features

- Up to four door panels and four room monitors can be connected to the network. All rooms have intercom features in between monitors.
- Each monitor can talk to door panel and open the door(s)

# 3. Package Contents

- Up to four door panels and four room monitors can be connected to the network. All rooms have intercom features in between monitors.
- Each monitor can talk to door panel and open the door(s)

| Indoor Monitor (IDU-TS7) | (ODU-V1) | Poe Switch SWITCH8-PoE | PS18E | RJ45 |

| Device | Qty. |
|---|---|
| ODU-V1 Outdoor Unit | 1 |
| IDU-TS7 Indoor Unit | 1 |
| PoE 8-ports Switch | 1 |
| Power Supply PS-18 | 1 |
| RJ-45 Connectors | 6 |
| Door Lock Contact Wires | 1 |
| Screws | 10 |
| Screws anchor | 10 |
| Installation Manual | 1 |

# 4. Safety Instruction

1) Keep the indoor unit away from high temperature (i.e. near an oven, under direct sunlight, high humidity such as bathroom and greenhouse)
2) Do not install the indoor unit close to a television or expose strong jamming. TV and the intercom can interfere with each other.
3) Do not touch the unit with wet hands.
4) Avoid throwing, dropping or hitting the units.
5) Clean the camera or screen with a soft cloth. Do not use detergent, thinner, volatile or corrosive liquids.
6) Use the product under the circumstance of barrier-free and no interference.
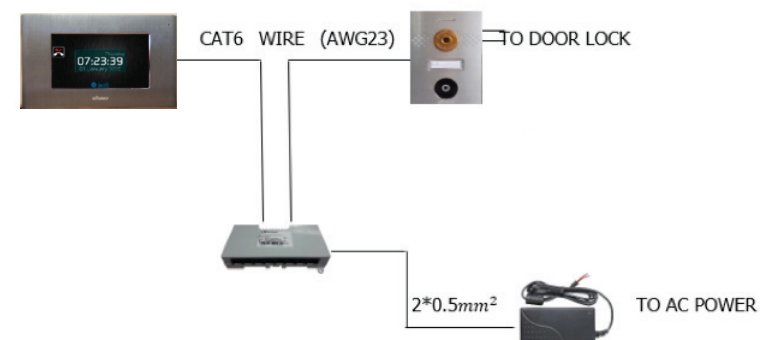
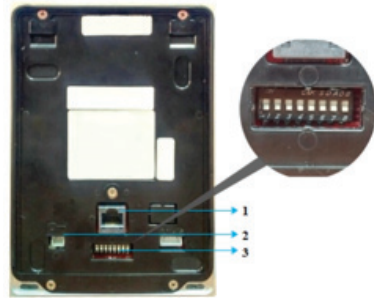# 5. Installation

Figure 1: Connection Scheme

## Wiring Specifications:

| Wiring run [ from – to ] | Length (max) | Cable type |
|---|---|---|
| PoE Switch – socket | - | PS-18 AC Adapter [input: 220-240VAC output: 18VDC] |
| Outdoor ODU-V1 – PoE | 70m | CAT6 23 AWG with RJ45 Plug |
| indoor INDU-TS7 – PoE | 70m | CAT6 23 AWG with RJ45 Plug |

## 6. Control Information (Outdoor Unit)



1. Speaker
2. Outdoor Camera
3. LED Light
4. Name Tag
5. Touch Button
6. Microphone

1. Ethernet Connection
2. Door opener ( only short circuit no power )
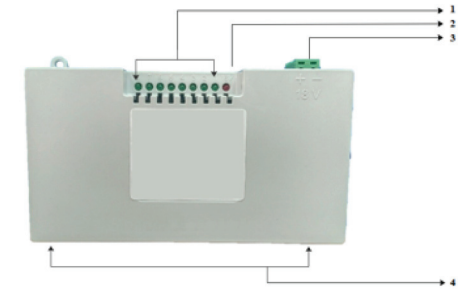3. Switch Pins ( 1 to 8 )

## Control Information (Internal Unit)



1.Reset button
2.Volume down
3.Volume up
4. Microphone
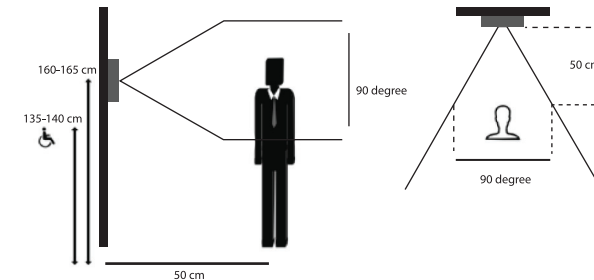5.Speaker
6.LED indicators

1. SD Card
2. Ethernet Connection
3. Alarm 10-Pins Port

## Control Information (Intercom Network Distributor)

1. Ethernet CAT6 Ports LED
2. Power Supply Port LED
3. 18 VDC Power Supply Port (+,-)

   *PAY ATTENTION TO THE POLARITIES
4. Ethernet CAT6 Ports



## Recommended Height and Field Shooting:



160-165 cm
135-140 cm
90 degree
50 cm
50 cm
90 degree

## 7. Installing Outdoor Unit

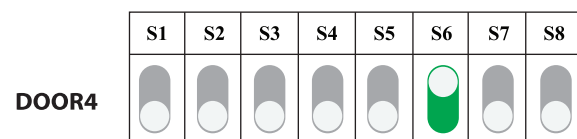it is recommended to install the outdoor unit on a smooth surface, in case of rough surface use silicon as waterprove.
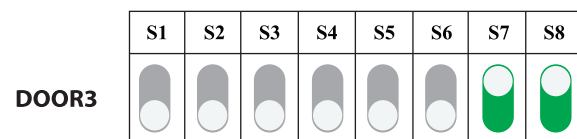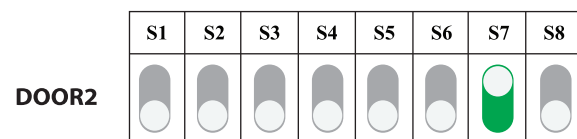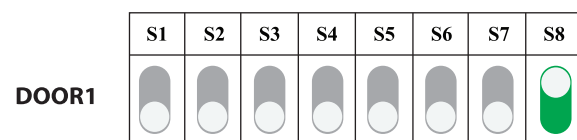
1. It is recommended for a better installation to have 7x7 metal box behind the ethernet port to have enough space.
2. Make four holes on the wall after marking the spots of the screws using the metal plate holes and bubble level balance, and insert the screw plastic anchors.
3. Tight the metal plate on the wall and make sure you have enough length of CAT6 cable coming out of the wall.
4. Connect the ethernet cable to the outdoor unit and make sure to bend the cable to U-shape to protect the unit from liquid leakage and install the unit on the metal plate by inserting the it from top and tight the two down screws of the outdoor unit.
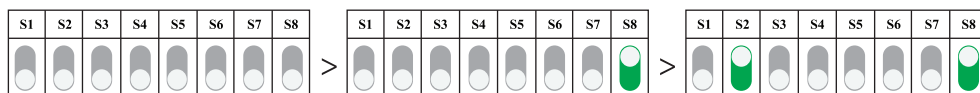
## 8. Programming Outdoor Unit ODU-TS7 (Before Installing in a FIXED Location):

**\* alfanar VILLASET Ready to be used as one-to-one without programming.**

1. Unscrew the green power supply port of the PoE switch and tight the power wires carefully and pay attention to the POLARITIES (RED +ve, BLACK&RED -ve) and plug it in.

2. Connect the PoE switch to a 100-240VAC socket. (RED LED will be on).

3. Unscrew the two screws down side the outdoor unit and remove the back-metal sheet.

4. Connect the outdoor unit to the PoE switch with Ethernet CAT6 cable it will start blinking purple LED for about 3 mins then it will change to steady blue.

5. On the back side make all switches to OFF position as shown.

6. Choose the door number as DOOR1, DOOR2, DOOR3 or DOOR4 as below. Label the door unit at the back side with door number chosen.

7. Bring S2 to ON position, the button color turns to light blue for about 3 minutes. when the color becomes steady blue, the device is ready to operate.

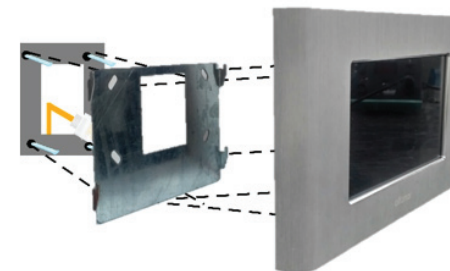8. Bring all switches to position OFF again

**DOOR1**

| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 |
|----|----|----|----|----|----|----|----|

**DOOR2**

| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 |
|----|----|----|----|----|----|----|----|

**DOOR3**

| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 |
|----|----|----|----|----|----|----|----|

**DOOR4**

| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 |
|----|----|----|----|----|----|----|----|

**Choosing door number steps:**

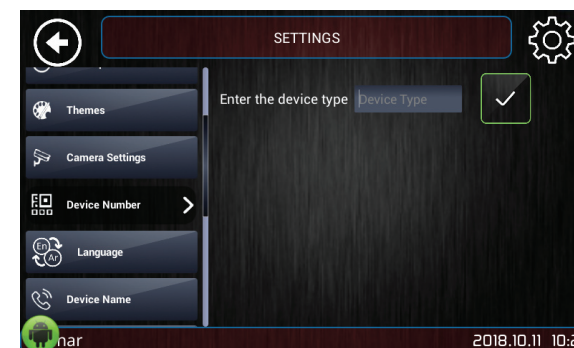| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | > | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | > | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 |
|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|

## 9. Installing Indoor Unit:

1. It is recommended for a better installation to have 7x7 metal box behind the ethernet port to have enough space.
2. Make four holes on the wall after marking the spots of the screws using the metal plate holes and bubble level balance, and insert the screw plastic anchors.
3. Tight the metal plate on the wall and make sure you have enough length of CAT6 cable coming out of the wall.
4. Connect the ethernet cable to the indoor unit and make sure to bend the cable to U-shape to protect the unit from liquid leakage and install the unit on the metal plate and push the screen down carefully to fix.
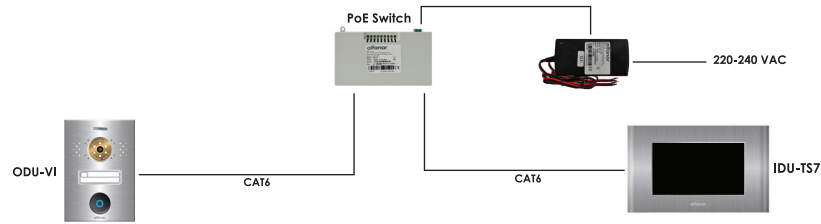


## 10. Installing Indoor Unit:

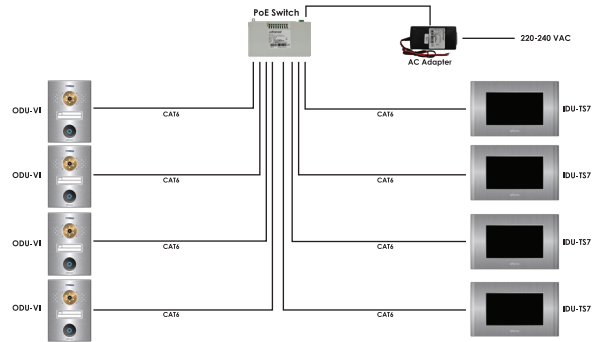**\* alfanar VILLASET Ready to be used as one-to-one without programming.**

1. Unscrew the green power supply port of the PoE switch and tight the power wires carefully and pay attention to the POLARITIES (RED +ve, BLACK&RED -ve) and plug it in.

2. Connect the PoE switch to a 100-240VAC socket. (RED LED will be on).

3. Connect the indoor unit to the PoE switch with Ethernet CAT6 cable it will turn on blue LED, wait until it opens the home screen

4. Go to SETTINGS → DEVICE NUMBER.

5. To enable the fields for editing press and hold the setting icon located on the right upper corner for 5 seconds or press the Volume down (-) button and Device Number.

6. When the field becomes editable enter the following data:
   Enter Device Type 1/2/3/4 (1 is master monitor, 2,3,4 clients).

7. Touch "Enter" icon. Then the device will restart and run with the new values
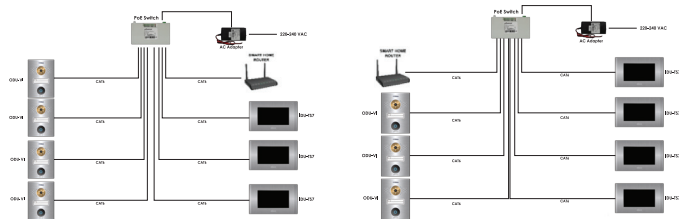
## 11. Intercom Connection Diagram



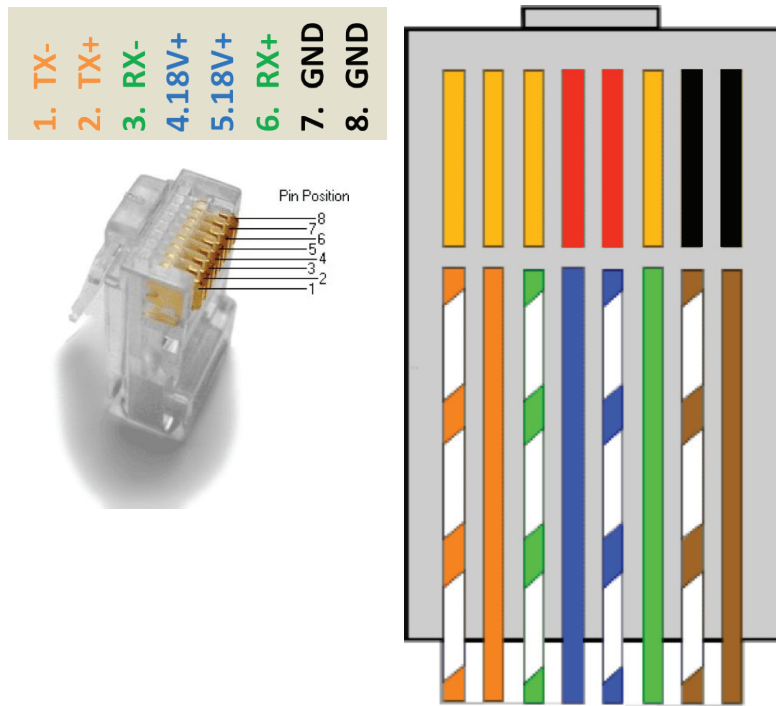**Maximum Expansion (without Smart Home Feature) :**



In case of Smart Home feature added, the system first should be connected to an internal network router via one port from the PoE switch following the 4-wire connect of Ethernet CAT6 cable as shown in pages (10-11).





| STEP : 1 | STEP : 2 | STEP : 3 |
|---|---|---|
| Cut jacket lightly of your RJ45 cable 1.5 inches from end | Remove the jacket exposing the 8 individual wires | Insert the wires into your RJ45 modular end as shows in the diagram (568B) |
| **STEP : 4** | **STEP : 5** | **STEP : 6** |
| Once confirm they are inserted properly | Insert the RJ45 modular end into 8P hole and squeeze handles to crimp the connector | You have a finished patch cable end – optional if you have a tester test your cables |

**Note :**

In case of connecting Router to the PoE only 4-wires should be inserted into the RJ45 Plug.
Step 4 will have on wire 1-2-3-6 (Orange and Green).

**Connecting IP INTERCOM to PoE Switch 8-wires**

**Connecting Router to PoE Switch**
**4-wires10/100MB ETHERNET CONNECTIONS**

1. TX-
2. TX+
3. RX-
4.18V+
5.18V+
6. RX+
7. GND
8. GND

Pin Position
8
7
6
5
4
3
2
1

1. TX-
2. TX+
3. RX-
6.RX+

Pin Position
8
7
6
5
4
3
2
1

1 2 3 4 5 6 7 8

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