OPERATION INSTRUCTION
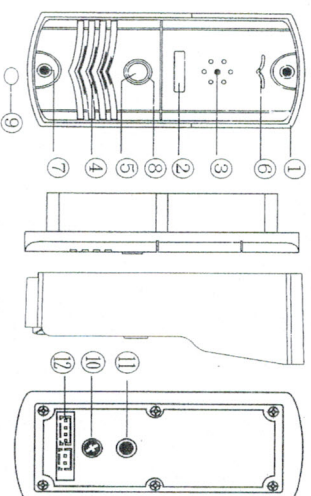## Video intercom system
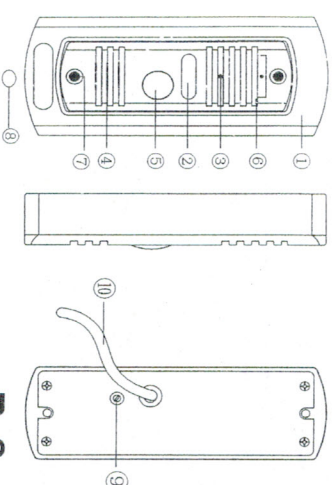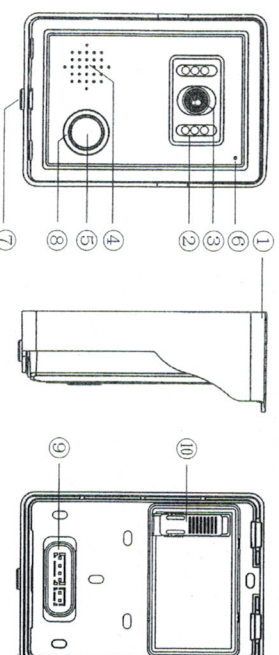
Outdoor Camera

User Manual

A Series

1. Weather shield
2. IRLEDS
3. Camera
4. Speaker
5. Call button
6. Microphone
7. Screw slot
8. Keypad LED
9. Cover
10. Volume regulator
11. Anti-vandal switch
12. System port

B Series

1. Weather shield
2. IRLEDS
3. Camera
4. Speaker
5. Call button
6. Microphone
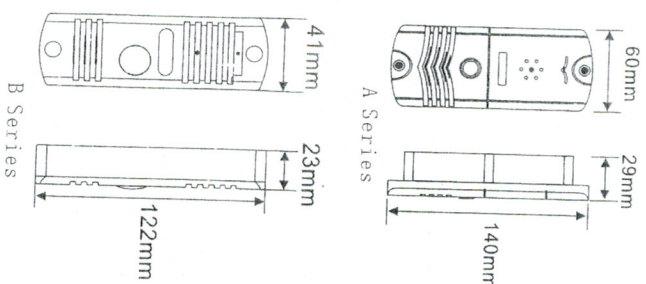7. Screw slot
8. Cover
9. Volume regulator
10. System port

C Series

1. Weather shield
2. IR LEDS
3. Camera
4. Speaker
5. Call button
6. Microphone
7. Screw slot
8. Keypad LED
9. System port
10. Tilt pad

A / B

1. Weather shield
6. Microphone
2. IR LEDS
7. Screw slot
3. Camera
8. Volume regulator
4. Speaker
5. Call button
9. System port

D Series

A/B   C   A/B/C   B

E Series

1. Weather shield
2. IR LEDS
3. Camera
4. Speaker
5. Call button
6. Microphone
7. Screw slot
8. System port
9. Volume regulator

F Series

1. Weather shield
2. Microphone
3. Camera
4. IR LEDS
5. Call button
6. Speaker
7. Screw slot
8. System port
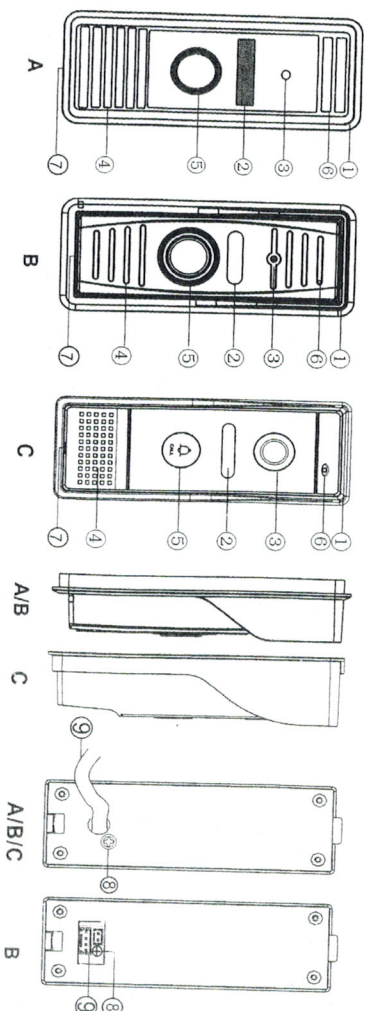9. Volume regulator

2. Description

Function	Descriptions
Weather shield	Affix and protect outdoor camera from rain/snow
IR LEDs	Provides illumination with IR LEDs for better visibility.
Camera	Capture image to transmit to display
Speaker	Sound from indoor monitor
Call button	Call indoor monitor for intercommunication
Microphone	Transmit voice to indoor monitor
Screw slot	Slots for installation screws
Cover	Cover of screw slot
Volume regulator	Increase/decrease the speaker volume
System port	Connect the indoor unit and the door lock
Tilt pad	Camera can be moved up and down at +-15℃ view angle
Power port	Connect with power supply
Anti-vandal switch	Removing the outdoor camera will trigger ringing alarm

3.SPECIFICATIONS

A Series — 60mm, 29mm, 140mm

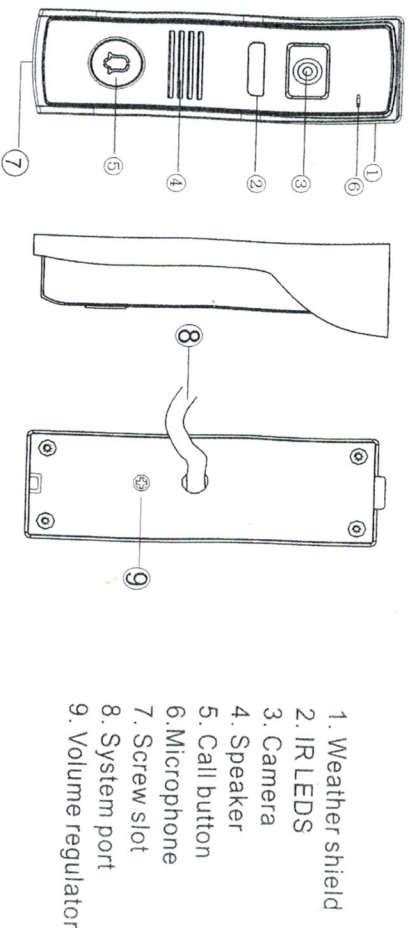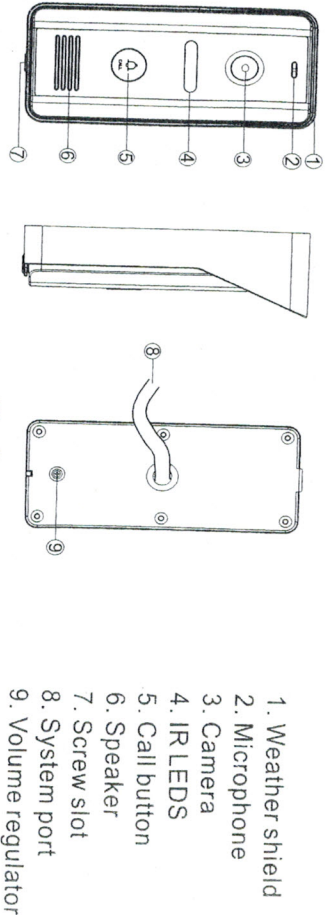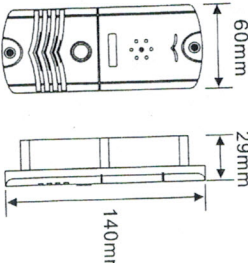|	
Camera sensor	1/4 inch pinhole CCD / CMOS camera
View angle	60°
Definition(Hor.)	420/600/700 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	150mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface/flush mount 1/4 inch pinhole CCD/COMS camera

B Series — 41mm, 23mm, 122mm

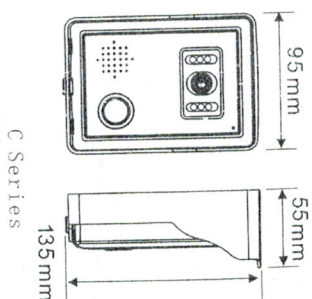|	
Camera	1/4 inch pinhole CCD/CMOS camera
View angle	60°
Definition(Hor.)	420/480/600/700 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	200mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface/flush mount

2. Description

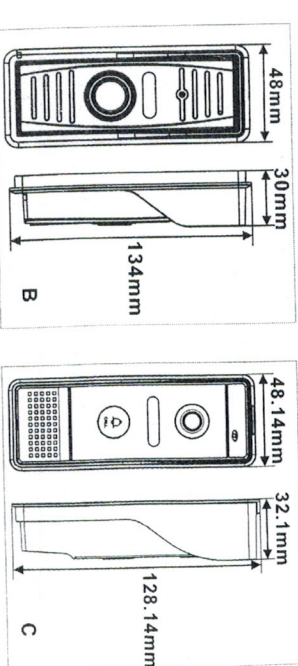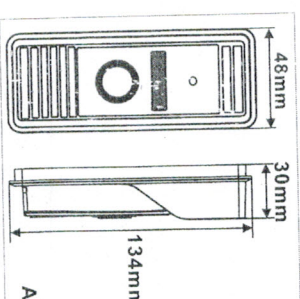| Function	Descriptions
Weather shield	Affix and protect outdoor camera from rain/snow
IR LEDs	Provides illumination with IR LEDs for better visibility.
Camera	Capture image to transmit to display
Speaker	Sound from indoor monitor
Call button	Call indoor monitor for intercommunication
Microphone	Transmit voice to indoor monitor
Screw slot	Slots for installation screws
Cover	Cover of screw slot
Volume regulator	Increase/decrease the speaker volume
System port	Connect the indoor unit and the door lock
Tilt pad	Camera can be moved up and down at +-15℃ view angle
Power port	Connect with power supply
Anti-vandal switch	Removing the outdoor camera will trigger ringing alarm

3.SPECIFICATIONS

A Series

60mm / 29mm / 140mm

B Series

41mm / 23mm / 122mm

A Series

Camera sensor	1/4 inch pinhole CCD/CMOS camera
View angle	60°
Definition(Hor.)	420/600/700 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	150mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface/flush mount 1/4 inch pinhole CCD/CONsS camera

B Series

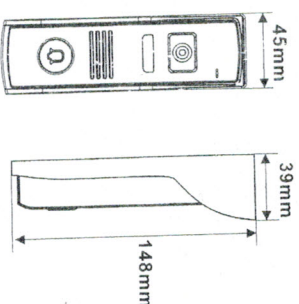| Camera	1/4 inch pinhole CCD/CMOS camera
View angle	60°
Definition(Hor.)	420/480/600/700 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	200mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface/flush mount

C Series

95mm / 55mm / 135mm

Camera	1/3" B/W CCD camera / 1/4" CCD camera
View angle	60°
Definition(Hor.)	380TVLine
LEDs for night	IR LEDs(60°)
Power consumption	150mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface mount

D Series

A: 48mm / 30mm / 134mm

B: 48mm / 30mm / 134mm

C: 48.14mm / 32.1mm / 128.14mm

Camera	1/4 inch pinhole CCD/CMOS camera
View angle	68°(view angle of the model including character "R" can be up to 110°)
Definition(Hor.)	420/600/700 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	200mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface/flush mount

E Series

45mm / 39mm / 148mm

Camera	1/4 inch pinhole CCD/CMOS camera
View angle	68°
Definition(Hor.)	420/600/700 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	200mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface mount

4.WIRING DIAGRAM

F Series

60.04mm
43mm
135.72mm
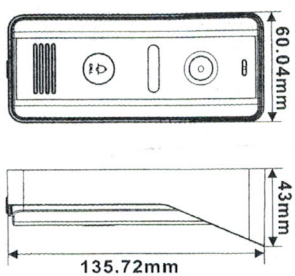
Camera	1/4 inch pinhole CMOS camera
View angle	Up to 110°
Definition(Hor.)	420 TV Line
LEDs for night	IR LEDs(60°)
Power consumption	200mA max.
Power supplier	Supplied from indoor unit
Operation temp.	-40~+50℃
Installation	Surface mount

A Series

⟹ INDOOR MONITOR

4.Wh.
3.Blk.
2.Yel.
1.Red

AC/DC power supply for unlocking (not included)

AC/DC electric lock (not included)

B Series

1.Red
2.Yel.
3.Blk.
4.Wh.

AC/DC power adapter for unlocking (not included)

AC/DC electric lock (not included)

C Series

AC/DC power supply for unlocking (not included)

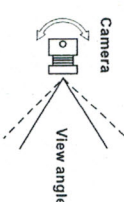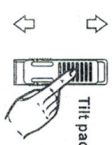AC/DC electric lock (not included)
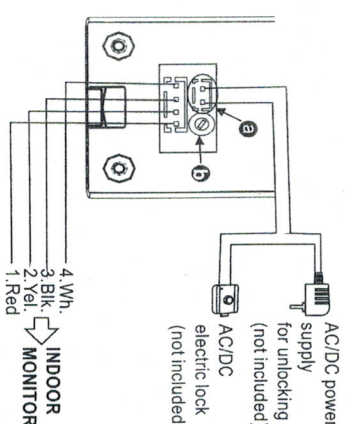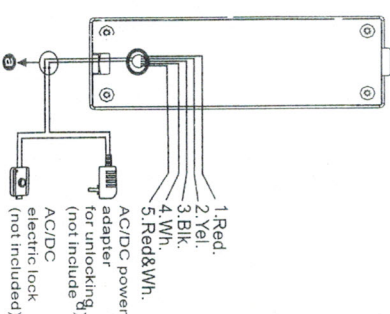
1.Red
2.Yel.
3.Blk.
4.Wh.
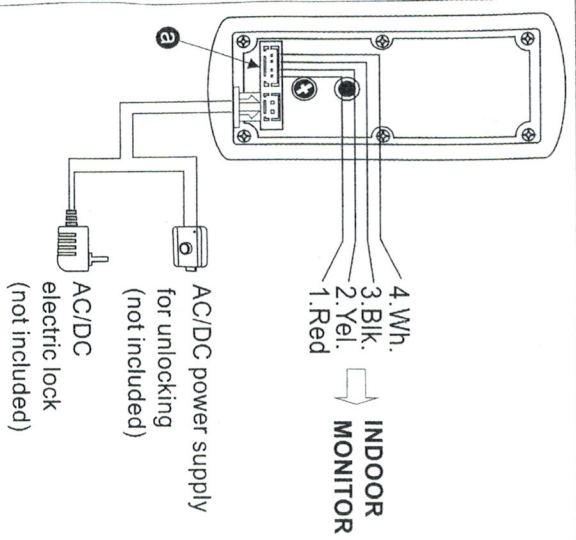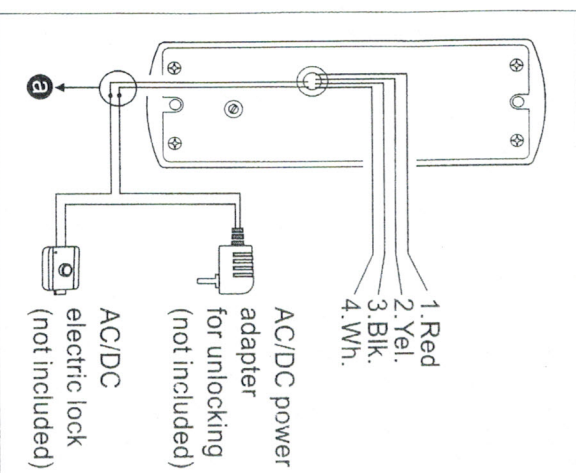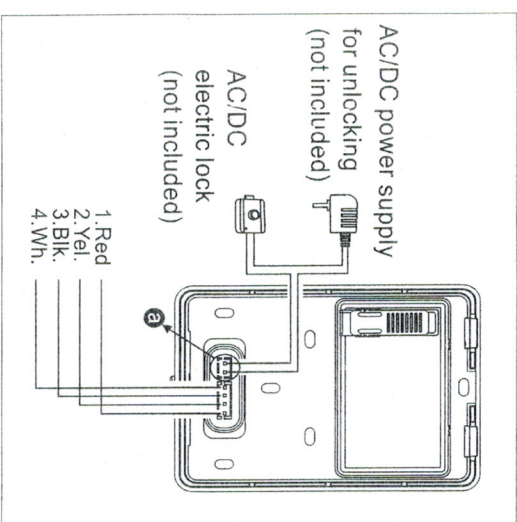
ADJUST CAMERA ANGLE

The tilt control allows the camera to be moved up and down

At the backside of outdoor unit, you can find out a tilt pad(shown as below)which is used to adjust the camera angle up and down at ±15 view angle, therefore it ensures that the visitors regardless of height can be seen at a suitable sight.

Tilt pad

Camera
View angle

D Series

1.Red.
2.Yel.
3.Blk.
4.Wh.
5.Red&Wh.

AC/DC power adapter for unlocking (not included)

AC/DC electric lock (not included)

The terminal is defined functionality as below:
1.Red:DC12V   2.Yellow: Audio
3.Black: GND   4.White:Video
5.Red&Wh:DV12V(Camera)

4.Wh.
3.Blk.
2.Yel.
1.Red

⟹ INDOOR MONITOR

AC/DC power supply for unlocking (not included)

AC/DC electric lock (not included)

The terminal is defined functionality as below:
1.Red:DC12V   2.Yellow: Audio
3.Black: GND   4.White:Video

E Series
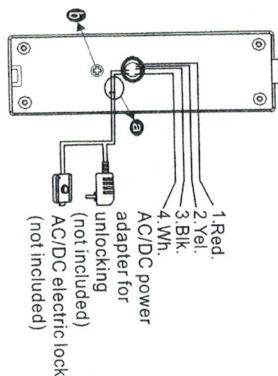
The terminal is defined functionality as below:
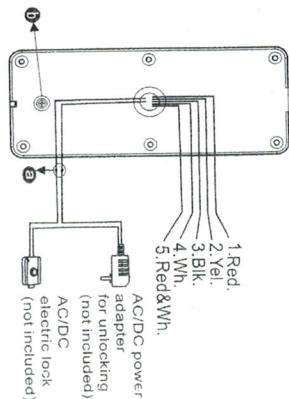1. Red: DC 12V   2. Yellow: Audio
3. Black: GND   4. White: Video

1.Red.
2.Yel.
3.Blk.
4.Wh.

AC/DC power adapter for unlocking (not included)

AC/DC electric lock (not included)

F Series

The terminal is defined functionality as below:
1. Red: DC 12V   2. Yellow: Audio
3. Black: GND   4. White: Video
5. Red&Wh: DC 12V(Camera)

1.Red.
2.Yel.
3.Blk.
4.Wh.
5.Red&Wh.

AC/DC power adapter for unlocking (not included)

AC/DC electric lock (not included)

ⓐ Dry contact

In the standard delivery the system supports locks with Normally Open(N.O.) door unlocking method.
It means that in the normal state the dry contact(marked as ⓐ) is opened, so the lock is kept under constant closed state. If the unlocking button is pressed and the dry contact is changed to closed, then the lock is released.
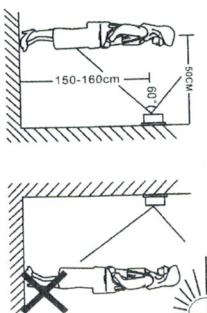
The speaker volume is too low ,how to increase it?

At the backside of outdoor unit, you can find out a regulator (Marked as ⓑ) which is used to adjust the speaker volume, turn the regulator with the screwdriver to decrease/increase the speaker volume.
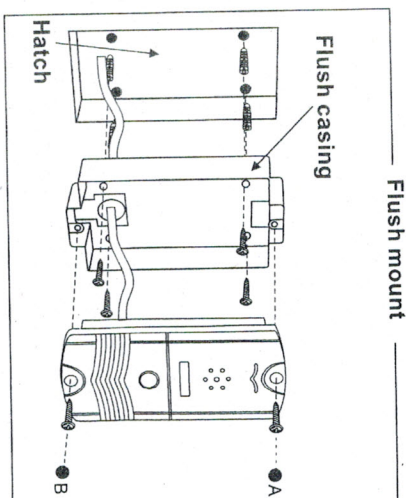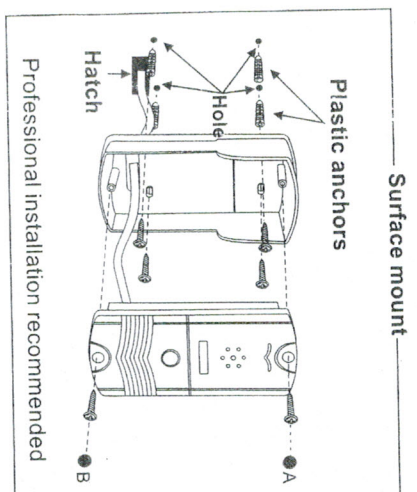
5.INSTALLATION PROCESS OF OUTDOOR UNITS
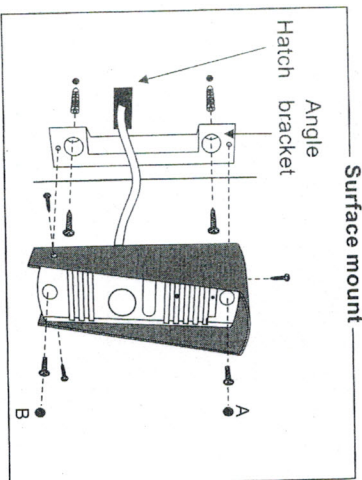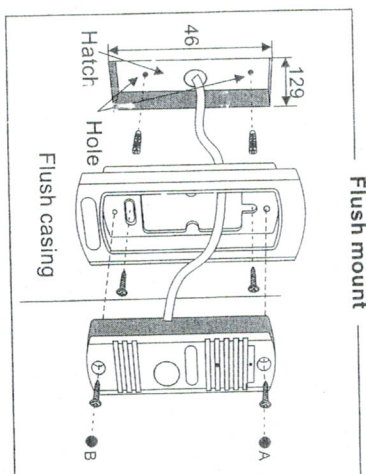

150-160cm   50CM   60°

⚠ NOTE:

• Avoid installation of the device near strong radiation e.g. AC motor and lift.
• Maintenance should be complied with qualified technician.
• Avoid hard shake, beating and collision. otherwise the internal exact components maybe be damaged.
• Do not expose the outdoor camera under strong light or sunshine.
• Do not install the outdoor camera in the environment e.g. direct sunlight, contact rain, high temperature, high humidity, full of dust and chemistry corrosive.
• Select the most suitable position where the camera is located at user's eye level.
• Switch off power supply before installation.
• Keep more than 30cm away from AC power supply to avoid external interference.
• Keep it away from the water and magnetic field.

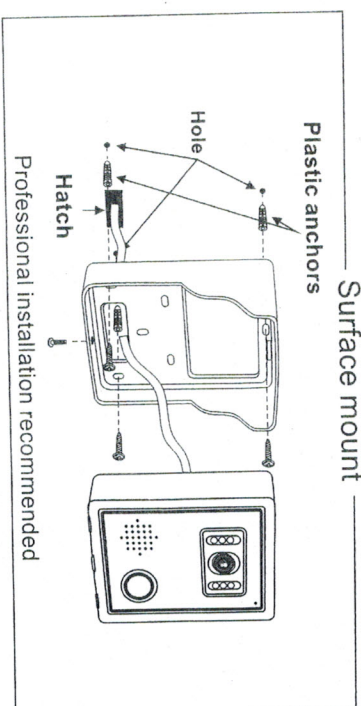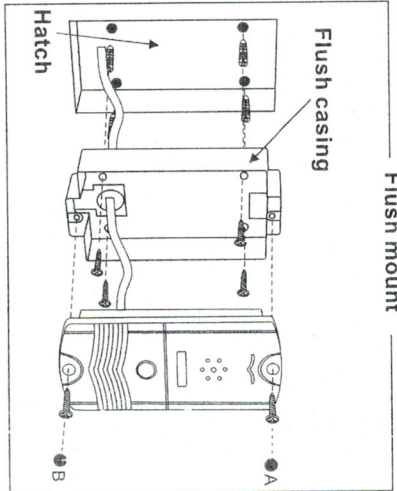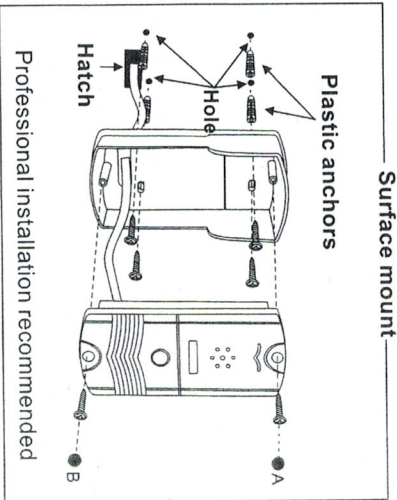You have two options to install outdoor camera: Flush mount and Surface mount

A Series

Flush mount

Surface mount

Professional installation recommend

Plastic anchors

Hatch
Hatch
Hole

Flush casing
Hatch

B
A
B
A

B Series

Flush mount

Hatch
46   129
Hole
Flush casing

Surface mount

Angle
Hatch bracket

B
A
B
A

C Series

Surface mount

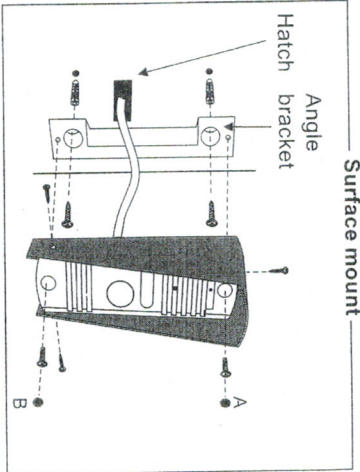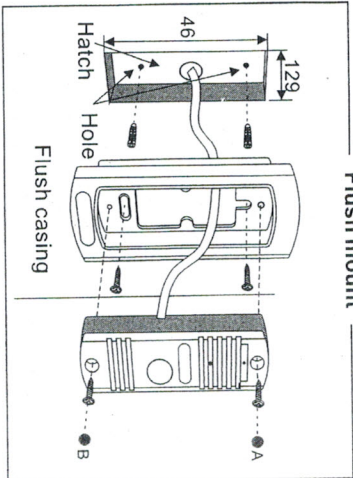Plastic anchors
Hole
Hatch

Professional installation recommended

You have two options to install outdoor camera: Flush mount and Surface mount

A Series
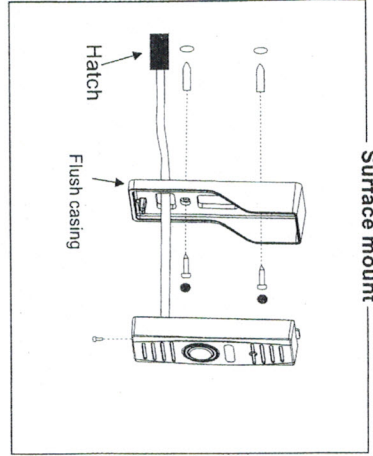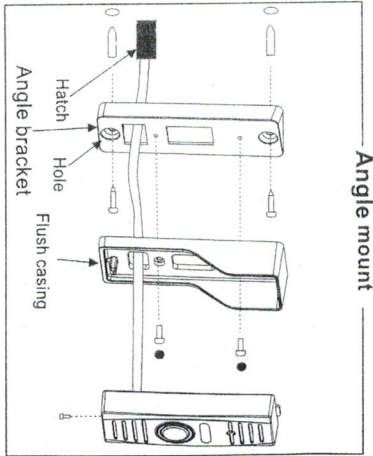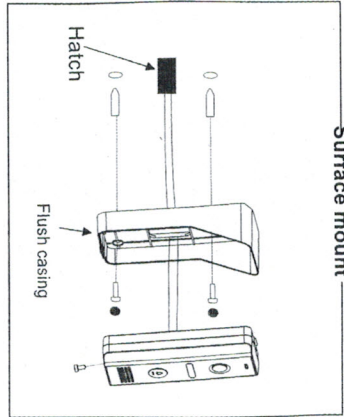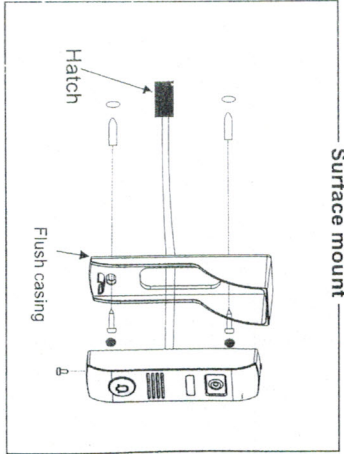
Professional installation recommended

Surface mount

Hatch
Hole
Plastic anchors

B
A

Flush mount

Hatch
Flush casing
B
A

B Series

46
129

Hatch
Hole
Hole
Flush casing

Flush mount

B
A

Surface mount

Angle
Hatch bracket

B
A

C Series

Surface mount

Hole
Hatch
Plastic anchors

Professional installation recommended

D Series

Angle mount

Hatch
Angle bracket
Hole
Flush casing

Surface mount

Hatch
Flush casing

E Series

Surface mount

Hatch
Flush casing

F Series

Surface mount

Hatch
Flush casing

To install Model B outdoor unit, please follow these steps as reference :

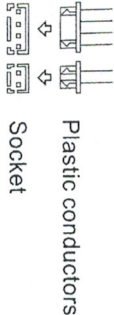1.Select the most suitable position where the camera is located at user's eye level, then drill **2** holes according the weather shield, embed **2** plastic anchors into the holes.

2.Use a screwdriver to affix the weather shield with the installation screws.

3.Drag the connection cable through the hatch at the bottom side, plug the 4P + 2P plastic conductors into the relevant socket.

4.Embed the outdoor unit into the weather shield and affix with the supplied screws.

Hole ●--- 🔩 Plastic anchor

🔩 Installation screws

Plastic conductors

Socket

MC-796 B-4