COSEC COGNIFACE INTEGRA

COGNIFACE INTEGRA200

COGNIFACE INTEGRA100

MATRIX
SECURITY SOLUTIONS

Safety Instructions

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

⚠️ Cautions

Do not install the device:
- On unstable surface.
- Where ferromagnetic field or noise is induced.
- Where static is created, such as desks made of plastics, carpets.
- Near volatile inflammable materials or inflammable goods such as drapes.
- Where volatile gas and/or inflammable gas is created.

🔔 Warning

- Installing and servicing should be done only by qualified technician.
- There are no user-serviceable parts inside.
- Opening or removing the device cover may result in electric shock or exposure to other hazards.
- Use the device only for the purpose for which it was designed.

Contents

Please read this guide first for correct installation and retain it for future reference. The information in this guide is prevailing at the time of publication. However, Matrix Comsec reserves the right to make changes in product design and specifications without prior notice.

Know your COGNIFACE INTEGRA

A COSEC COGNIFACE INTEGRA is an enclosure box which helps in maintaining hardware elements to encourage Face Recognition feature for Time and Attendance module through Matrix Devices. Here a COSEC device is integrated with IP Camera for Face Recognition efficiently. It is available in two models: **COGNIFCAE INTEGRA100** and **COGNIFCAE INTEGRA200**.

Figure 1: Front View
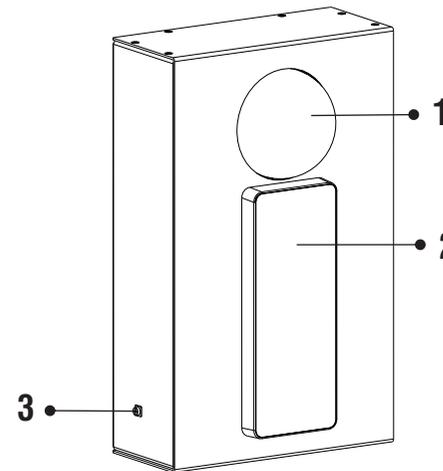
Figure 2: Back View
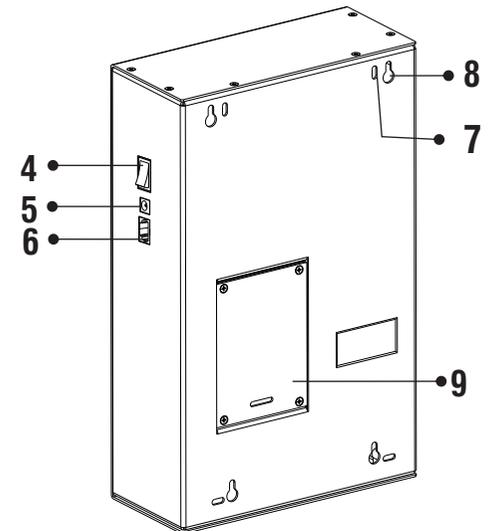
1. Matrix IP Camera
2. COSEC Device - **ARGO**
3. Earthing Screw
4. ON/OFF Switch
5. Power Cable Slot
6. LAN Slot
7. Through Slot
8. Key Slot
9. Battery Compartment

Matrix IP Camera

For providing efficient Face Recognition, IP Camera is used to capture user's image accurately. In COGNIFACE INTEGRA, Matrix IP Camera is used (Refer Figure 3). It is a Standard 2MP Dome Camera with Focal length of 2.8mm, mounted above COSEC ARGO device at a suitable height in COGNIFACE INTEGRA. It captures user image from the best angle. The captured image is used to identify users for Time and Attendance Management.

💡 The lens angle of camera is set at 15° downwards for obtaining best results.

Figure 3
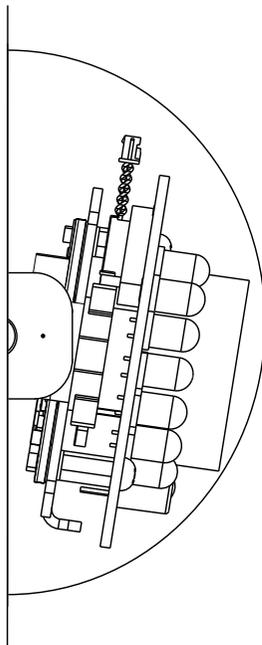
COSEC Device - ARGO

- The Matrix ARGO device, is engineered with high-end wireless terminals for Time & Attendance. Thus making it a best solution for providing Face recognition feature when it is integrated with an IP Camera. The user image captured by IP camera is processed by ARGO door to authorize the user for Time and Attendance Management. Also, other credentials like Face/ Finger, PIN and Card are supported by ARGO.
- COGNIFACE INTEGRA100 and COGNIFACE INTEGRA200 support different COSEC ARGO devices they are as follows:

COGNIFACE INTEGRA100	COGNIFACE INTEGRA200
ARGO (CAE200/ CAM200/ COM200)	ARGO (FOE212/ FOM212/ FOI212)
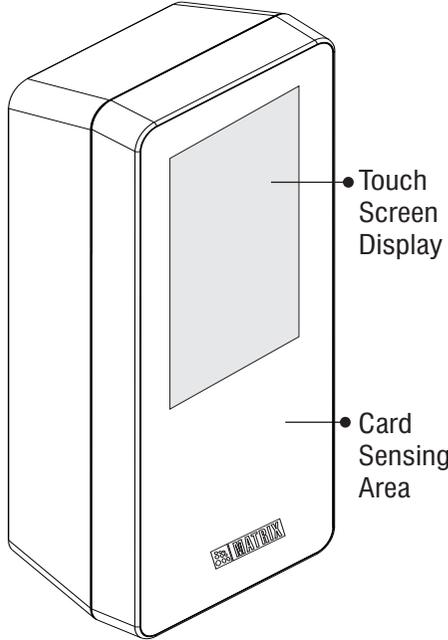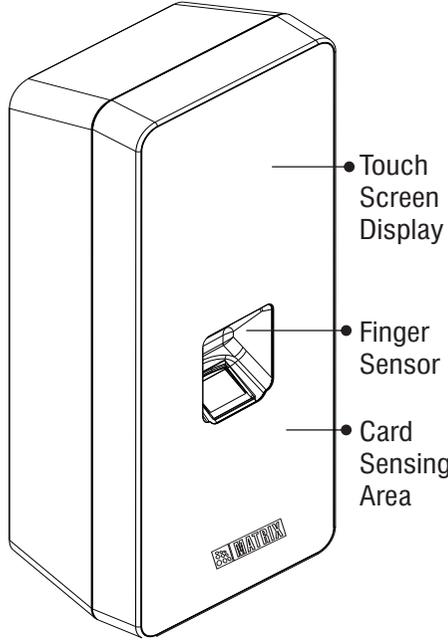
To power COGNIFACE INTEGRA, plug-in the Adapter and connect the cable into power cable slot and Switch ON the device. This will provide power to all the devices: IP Camera, COSEC ARGO and FR Module in COGNIFACE INTEGRA.

What your Package Contains

- Power Adapter 12VDC, 2A
- COSEC COGNIFACE INTEGRA device unit
- Screw Grips Plastic 8X35 - 4 Nos
- Screw M5X25 CSK PH - 4 Nos
- Mounting Template
- Earthing Cable
- EM Lock Cable
- External Reader Cable

Variants

The COGNIFACE INTEGRA100 and COGNIFACE INTEGRA200 have 3 variants each depending on type of ARGO device embedded as mentioned below:

COGNIFACE INTEGRA100 Variants

- **COGNIFACE INTEGRA100E** (ARGO CAE200)
- **COGNIFACE INTEGRA100M** (ARGO CAM200)
- **COGNIFACE INTEGRA100I** (ARGO CAI200)

COGNIFACE INTEGRA200 Variants

- **COGNIFACE INTEGRA200E** (ARGO FOE212)
- **COGNIFACE INTEGRA200M** (ARGO FOM212)
- **COGNIFACE INTEGRA200I** (ARGO FOI212)

Things you will Need

- Power Drill
- A Screw Driver
- COSEC Software with FR license.

Pre-Installation Safety Instructions

1. Do not Install the device in extremely hot temperature or under direct sunlight or at bright places. This may affect LCD and Card Sensor of the device.

2. Recommended height from ground to the top of the device is **151 cm** for best results.

3. Recommended distance between the IP Camera and the Face is **60 cm** for more effective face recognization.

4. Do not install on unstable surfaces, near volatile inflammable materials, area where volatile gas is created, where ferro-magnetic field or noise is induced, where static is created, such as desk made up of plastic or carpet.

5. Do not expose the device to extreme weather condition.

Preparing for Installation

Installation Process is same for both the COSEC COGNIFACE INTEGRA models.Before Wall Mounting COSEC COGNIFACE INTEGRA, follow the instructions given below:

Connecting Earthing Cable:
- Remove the Earthing Screw with the help of screw driver and connect the provided Earthing Cable in the slot.

Battery Insertion

💡 This is optional. If battery backup is needed, recommended Battery Specification: 3.75V, 3000mAh to 5000mAh, Li-ion (Panasonic/ LG/ Samsung).

- Remove the lid of battery compartment by unscrewing four screws with the help of screw driver. Keep those screws aside carefully because they will be required to fix the lid of battery compartment back into its position once the battery cells are inserted. Open the Battery Compartment as shown in **Figure 5**.

Figure 5
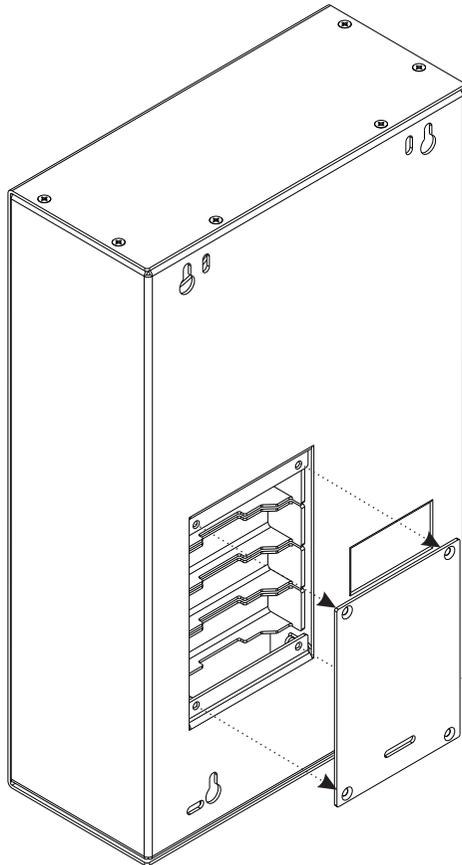
- After opening the battery compartment, place four battery cells in the space given as shown in **Figure 6**.

Figure 6
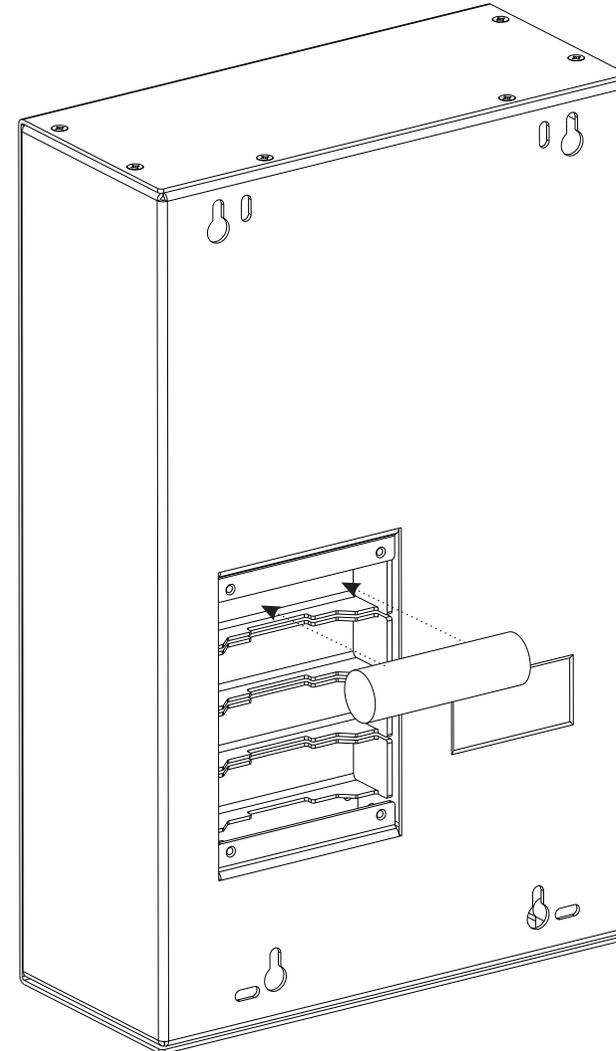
- Close the lid of the battery compartment as shown in **Figure 7** and tighten those four screws back into their position with the help of screw driver as shown in **Figure 8**.

- In case of power cut, this will provide battery back-up for minimum **2 hours.**

Figure 7
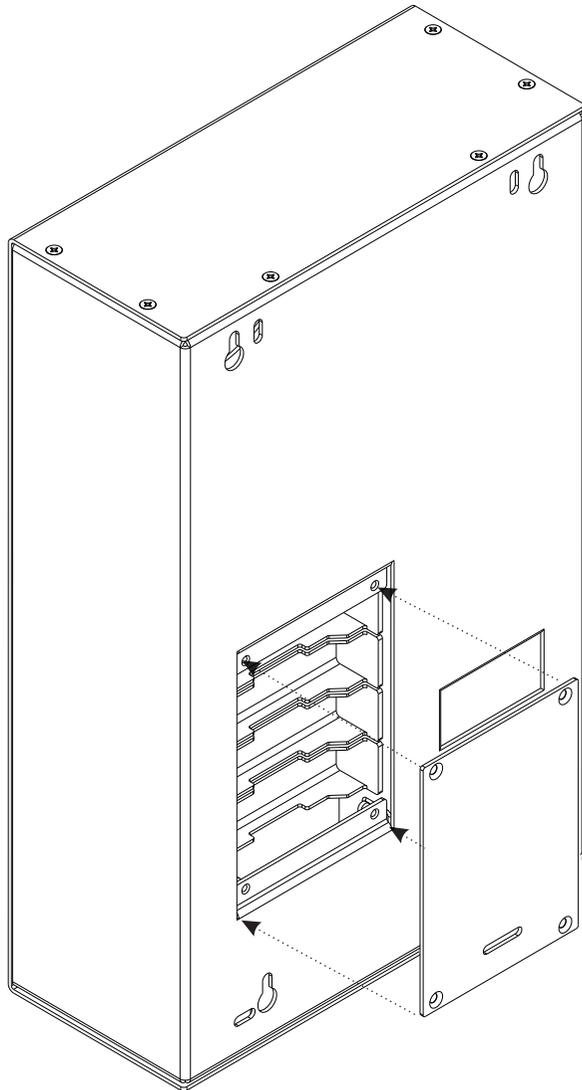
Figure 8
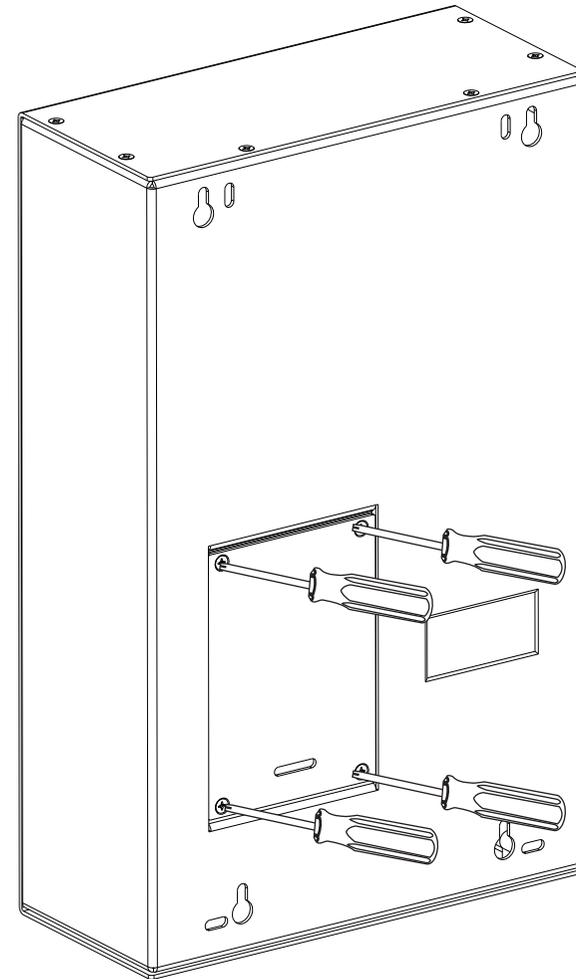
Wall Mounting
Select a location. It must be a flat surface such as wall. Place the COGNIFACE INTEGRA at specified height from the ground. There are two possible types of Wall Mounting:
1. Key Slot Mounting
2. Through Slot Mounting

The Key Slot Mounting is recommended due to less complexity.

Installation Instructions

A) Key Slot Mounting

1. Place the mounting template against the wall where Installation is to be done. Trace four screw holes using mounting template with pen/pencil as shown in the **Figure 9** and **Figure 10** below.

Figure 9
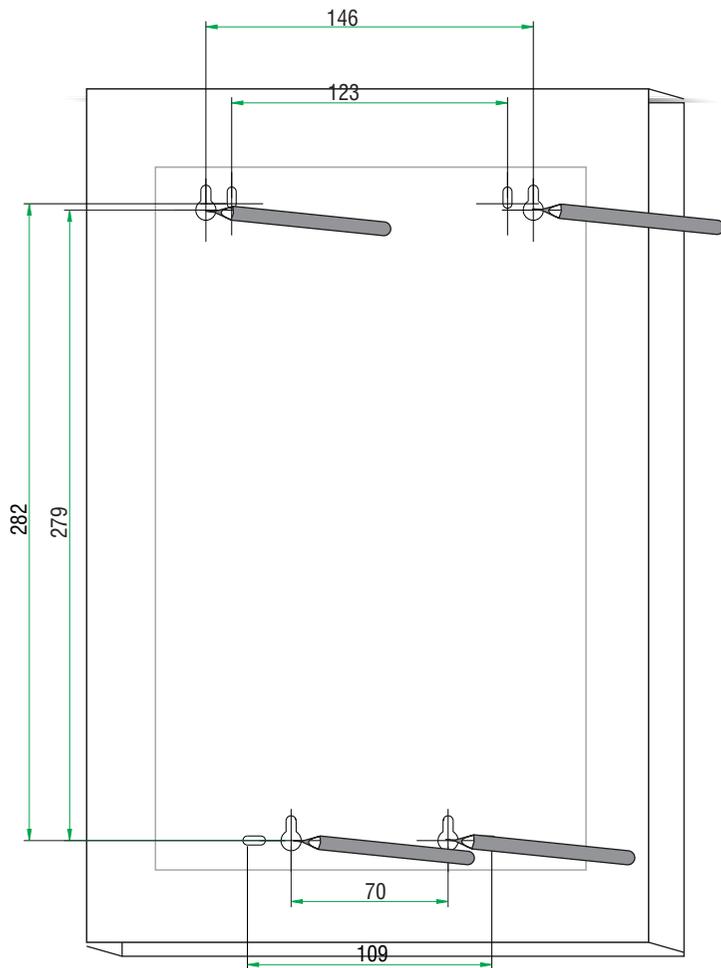
Figure 10
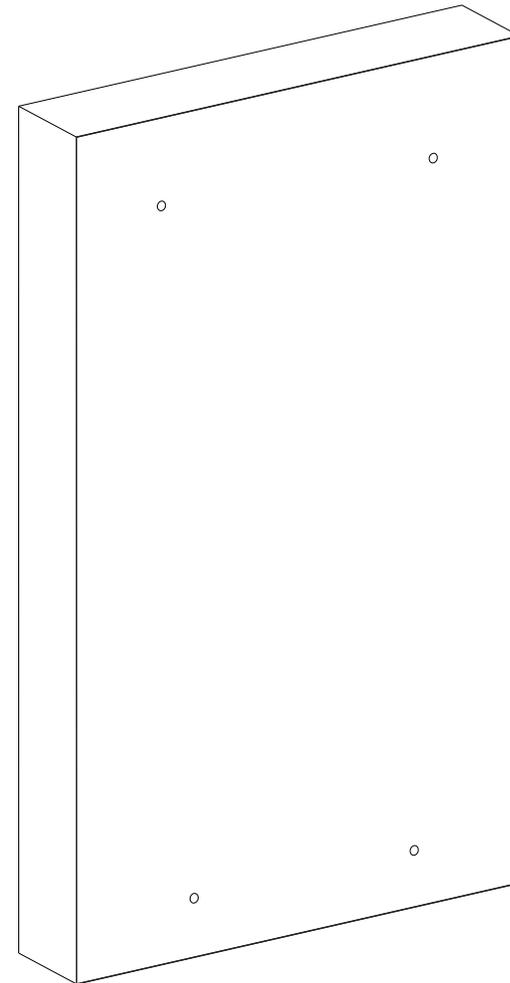
2. Drill four screw holes(**A,B,C,D**) along the traced markings with the help of power drill as shown in **Figure 11** below.

Figure 11
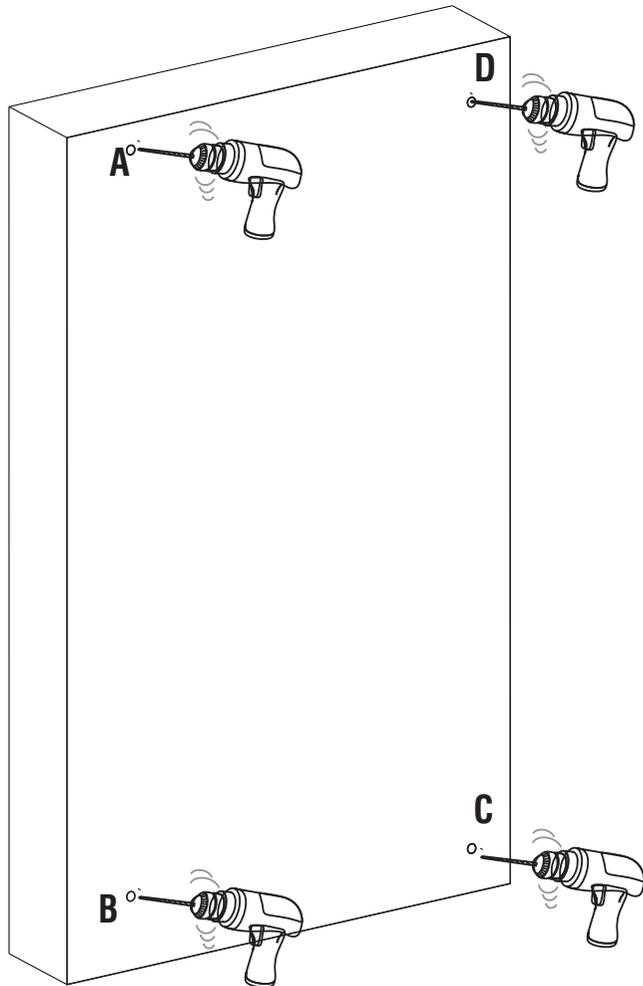
3. Fix the supplied screw grips into the **A, B, C** and **D** screw holes as shown in the **Figure 12**.

Figure 12
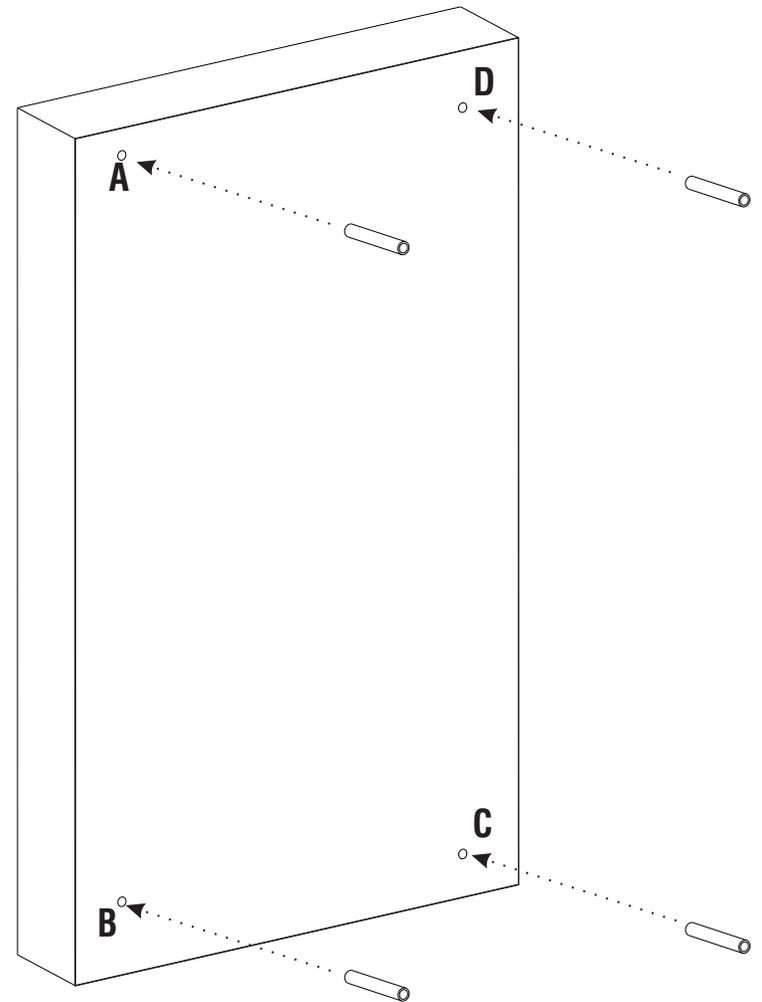
4. Insert screws into screw holes **A, B, C** and **D** having screw grips as shown in the **Figure 13** and **Figure 14**.

Figure 13
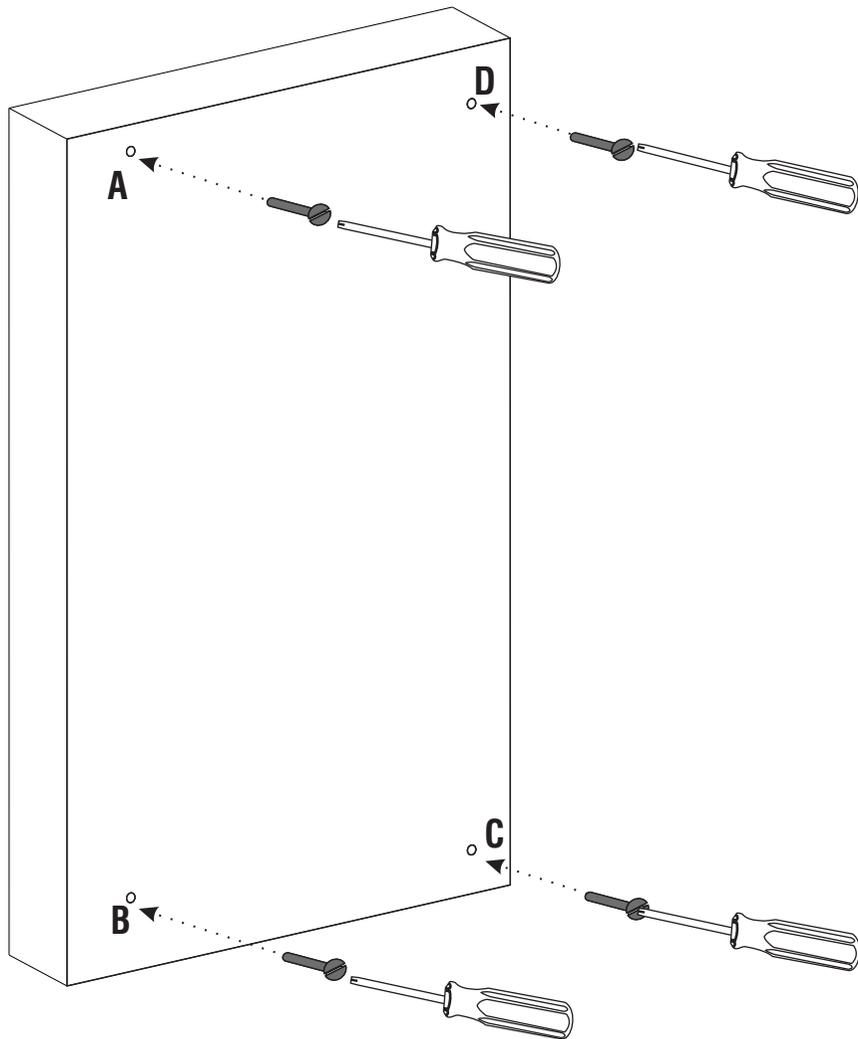
Figure 14

5. Align Key hole slots of COSEC COGNIFACE INTEGRA with the screws **A, B, C** and **D** on the wall and slightly slide it downwards as shown in **Figure 15** and **Figure 16**.

Figure 15
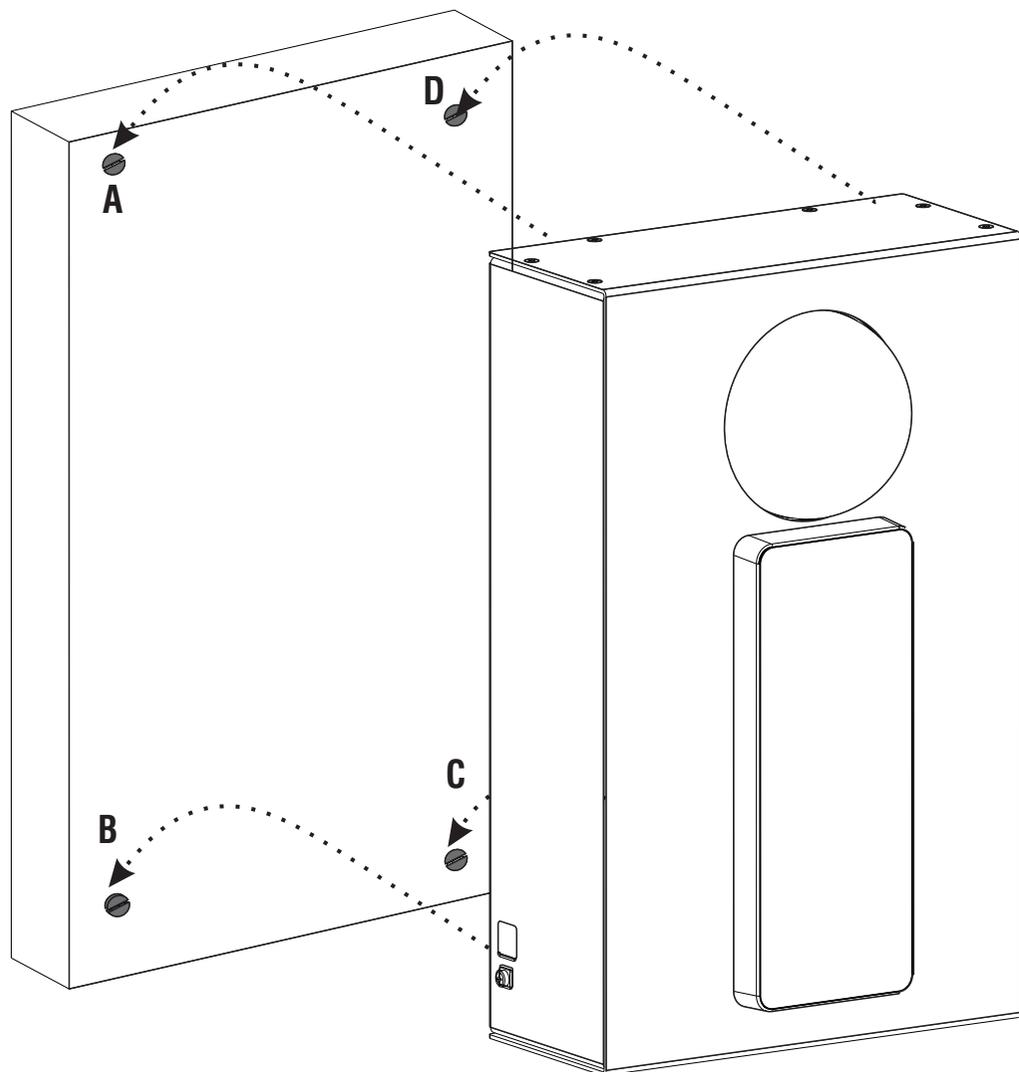
Figure 16
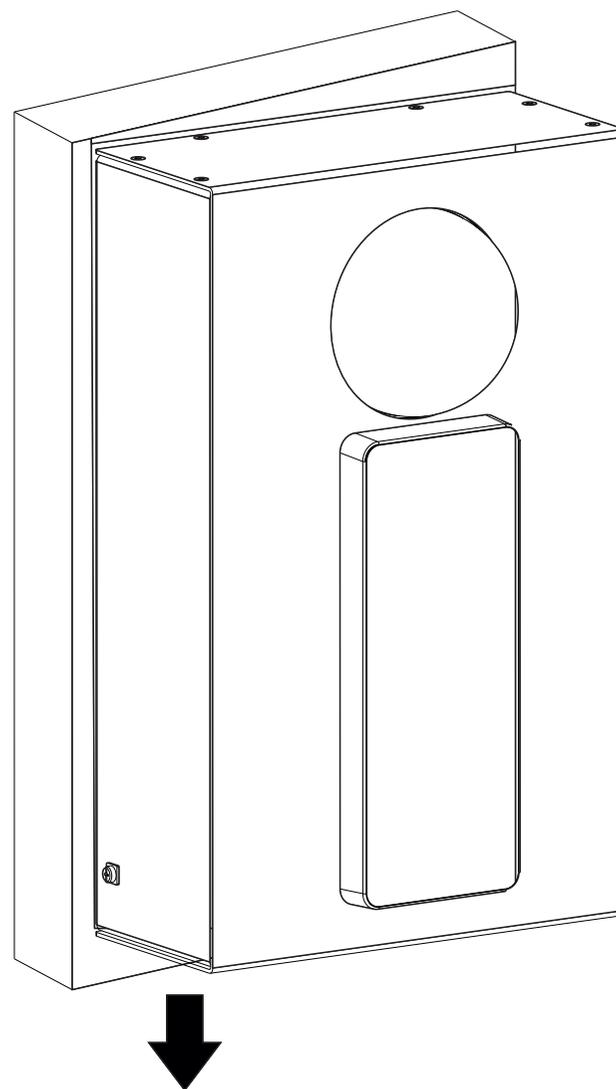
B) Through Slot Mounting

Follow Steps-1,2,3 of Key Slot Mounting as initial steps for Through Slot Mounting.

1. Place the mounting template against the wall where Installation is to be done. Trace four screw holes using mounting template with pen/pencil as shown in the **Figure 9** and **Figure 10**.

2. Drill those four screw holes(**A,B,C,D**) along the traced markings with the help of power drill as shown in **Figure 11**.

3. Fix the supplied screw grips into the **A, B, C** and **D** screw holes as shown in the **Figure 12**.

4. Now unscrew the COSEC ARGO Device as shown in **Figure 17.**

Figure 17
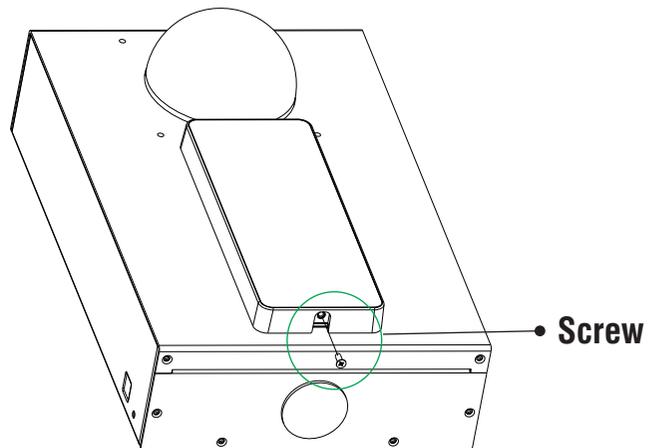
• **Screw**

5. Detach the Ethernet Cable and the DC Jack Cable of COSEC ARGO Device, see **Figure 18**.

Figure 18

Ethernet Cable
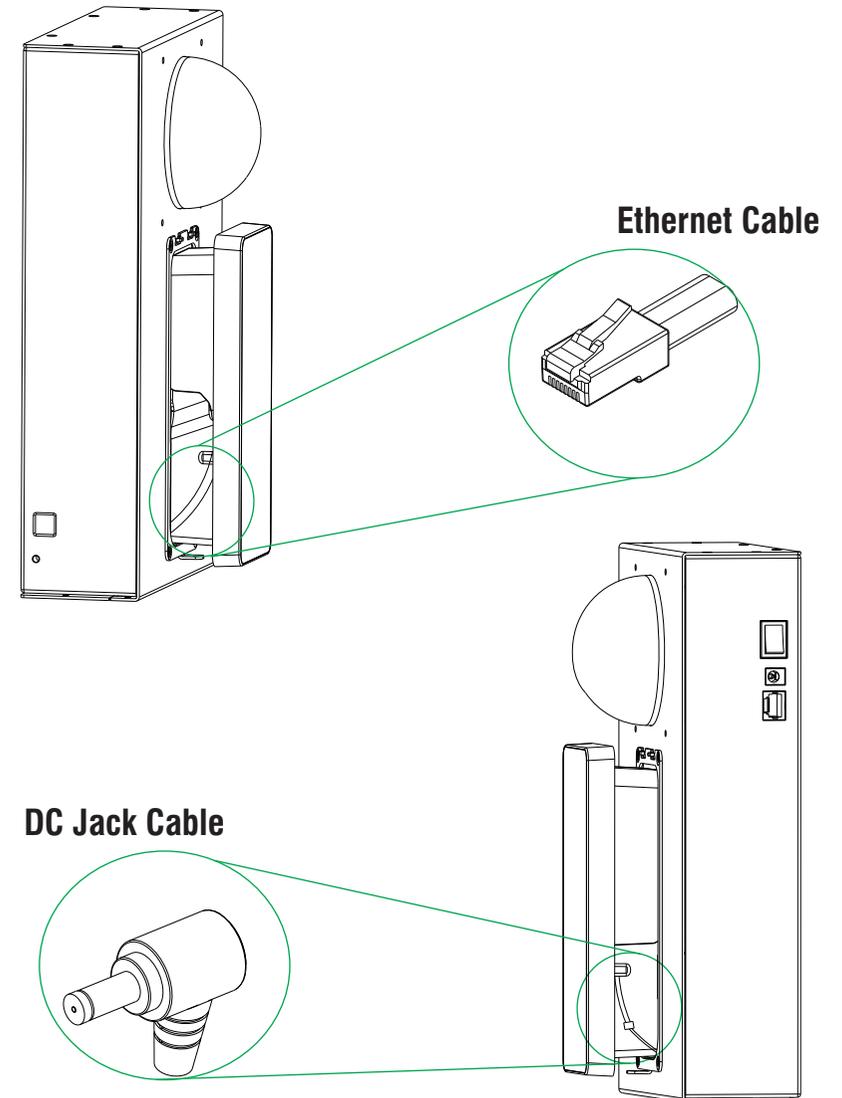
DC Jack Cable

6. Remove the COSEC ARGO Device as shown in **Figure 19** and keep it aside with caution.

Figure 19
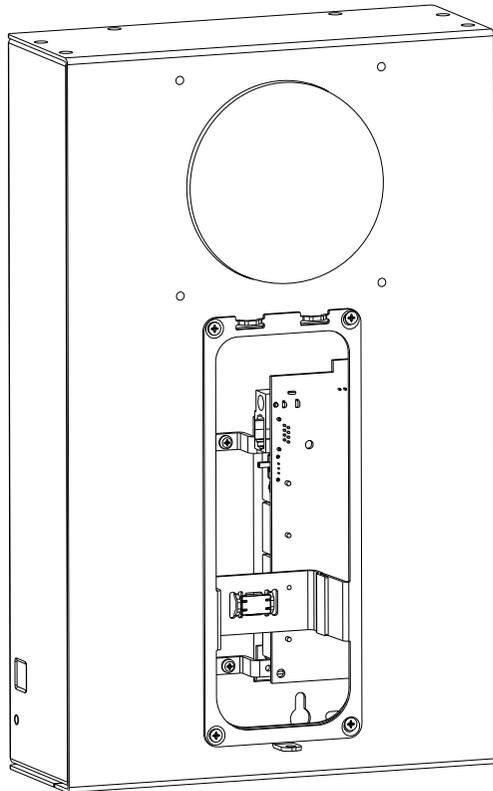
7. Unscrew the eight screws present on the Top Enclosure of the Device as shown in **Figure 20**.

Figure 20
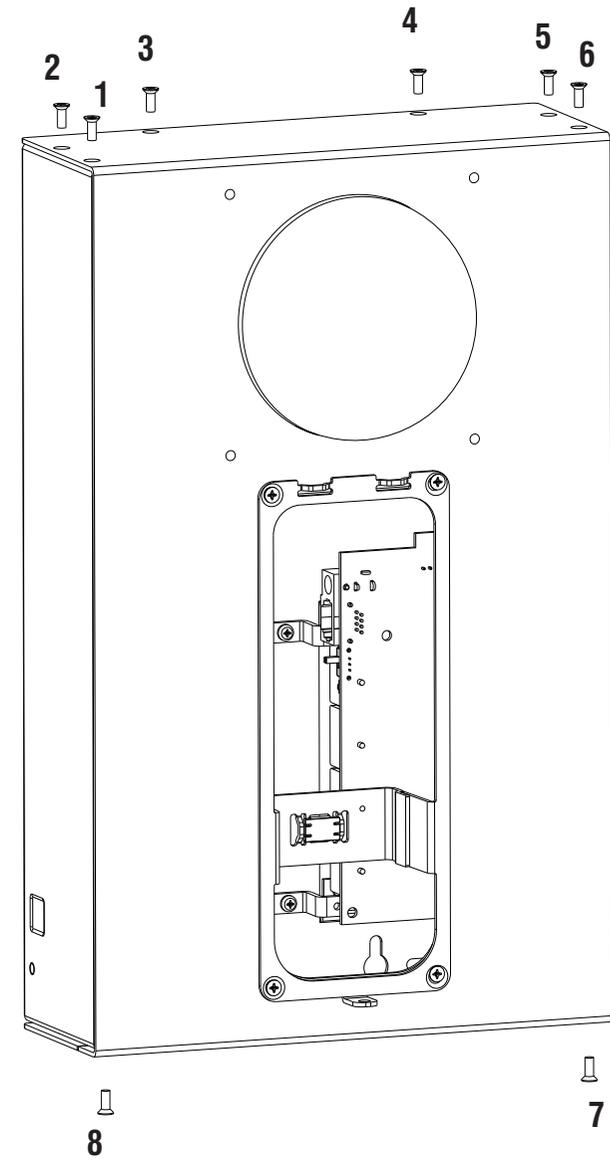
8. Detach the two connections: Ethernet Cable, DC Jack Cable present at the top and remove the Top Enclosure as shown in **Figure 21**.

Figure 21

DC Jack Cable

Ethernet Cable
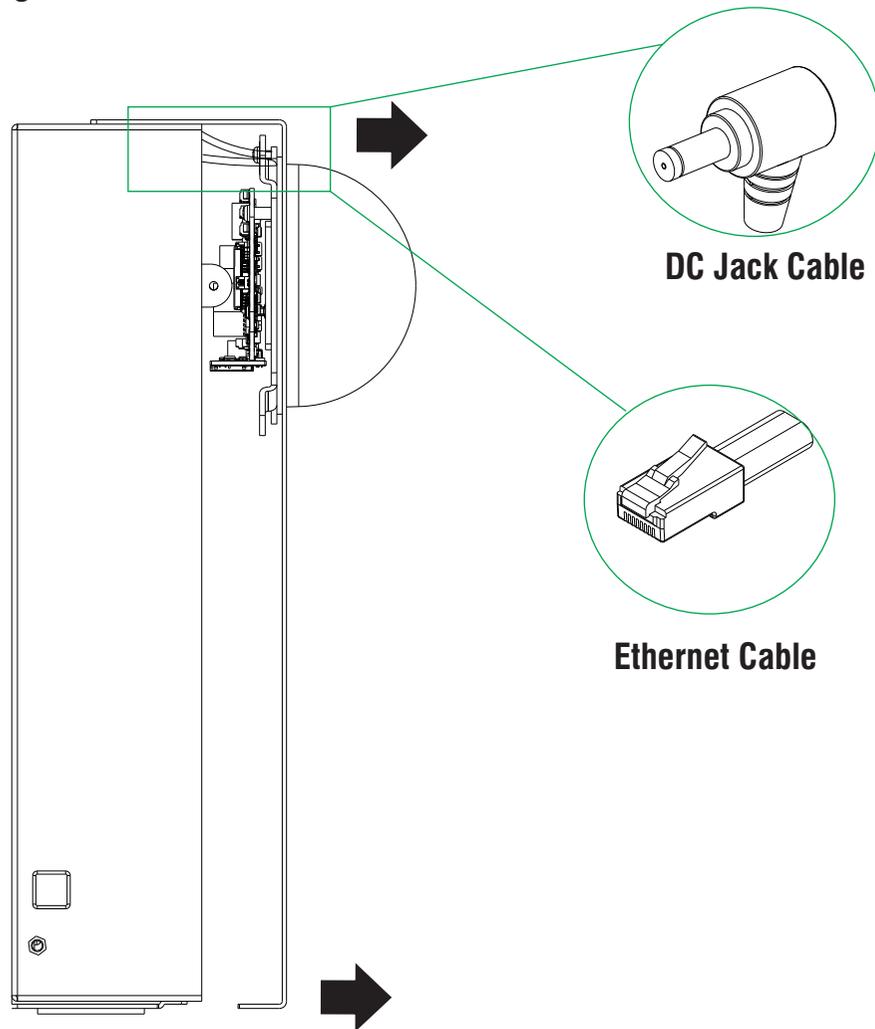
9. Fix the **four screws** in the through slots of bottom enclosure. Tighten screw **1** in screw hole **A,** screw **2** in screw hole **B,** screw **3** in screw hole **C** and screw **4** in screw hole **D** with the help of screw driver as shown in **Figure 22**.

Figure 22
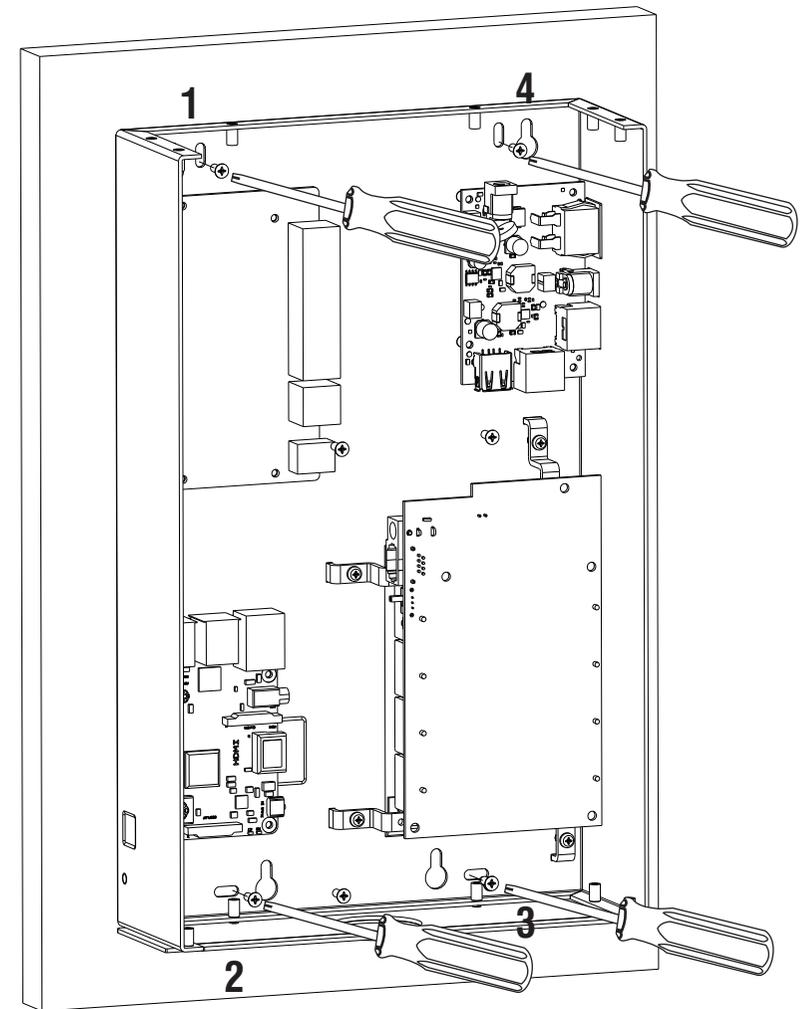
10. After properly tightening the screws, close the enclosure box by fixing top enclosure back into its position as shown in **Figure 23**. Tighten those 8 screws back with the help of screw driver.

Figure 23
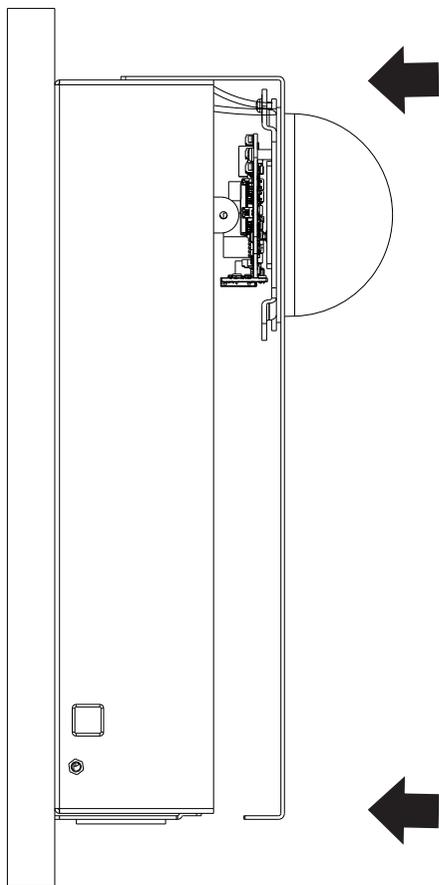
11. Before placing the ARGO Device back into its position, remember to plug-in the Ethernet Cable and the DC Jack Cable correctly. Now tighten the screw present at the bottom of the COSEC ARGO Device to fix it back into its position, see **Figure 24**.

Figure 24
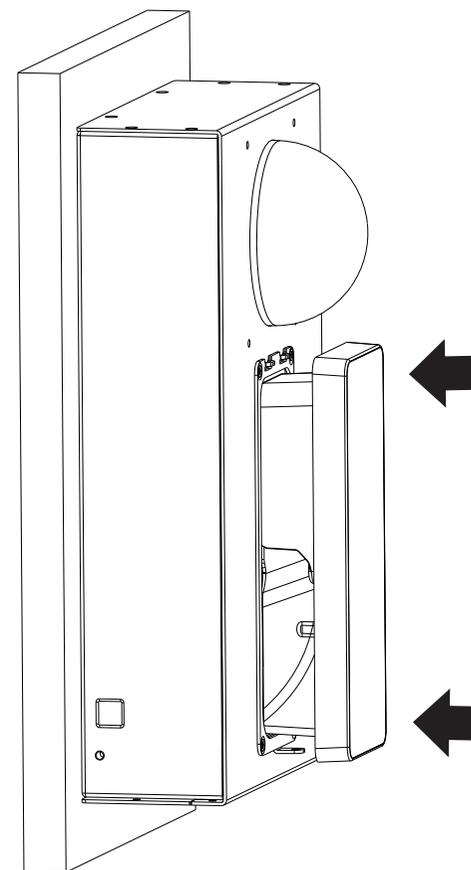
Assigning IP Address and Other Network Settings

For Face Recognition feature to work successfully, all the devices i.e COSEC ARGO device, IP Camera and FR module must be in same network by default.

> 💡 For Face recognition, there should be availability of platform and FR Licenses.
> Also check the supporting version of COSEC Server and COSEC Enroll Utility installed in computer. Ensure all licenses are activated.

- The default IP Address of ARGO is: 192.168.50.1, default IP Address of IP Camera is 192.168.50.3 and default IP of FR module is: 192.168.50.2.
- Ensure that COSEC ARGO Door, FR Module and IP Camera are in the same subnet.
- Once all the devices are connected online, configure the following:

In the COSEC Server:
- Click User Configuration>Face Recognition tab and Enable Face Recognition for the desired Users.
- Click User Configuration>Device tab and assign ARGO door to the users.
- Click Device Configuration>New (+) and add ARGO door in the COSEC Server.
- Click ARGO Door Device Configuration>Video Surveillance tab and select the Capturing Device as IP Camera, configure the Snapshot URL, User Name and Password. Click Identification Server tab IP Camera MJPEG URL, User Name, Password, set FR Mode as Local, if required change the Server Address and Port, default: 192.168.50.2 and 12000.

In the ARGO Device:
- Enter the IP Address of ARGO, default:192.168.50.1 in the address bar of the browser and press the Enter Key on the keyboard.
- The Login page appears.
- Select the User Name as **Admin**.
- You need to set the password, hence enter the desired password in **New Password** and re-enter the same in Confirm Password.
- Click Login.
- Click Settings >Face Identification Settings. Enable FR, select Server Type as Local. Enter the FR Server Host Name. Click Save.

For more details, refer to COSEC User Guide and ARGO Quick Start.

Technical Specifications

Specification Parameters	COGNIFACE INTEGRA100/200E	COGNIFACE INTEGRA100/200M	COGNIFACE INTEGRA100/200I
User Capacity	50,000		
Event Logs	5,00,000		
Type of Card	EM Prox	Mifare/ Desfire/ NFC	HID I CLASS/ HID Prox/ EM Prox/ Mifare/ Desfire/ NFC
Templates Capacity	25000 (1:N mode) and 1 lakh (1:1 mode)		
Door Lock Power			
Input Power	12 VDC @2A		
Battery Back-up	Yes (upto 2 Hours)		
Buzzer	Yes		
Built in Bluetooth	Yes BLE (4.2 and above)		
Built in Wi-Fi	Yes		
Weight	1.82 Kg (Approx)		
Dimension	Width: 193mm, Height: 311mm, Diameter: 65.5mm(without dome)/ 108.5mm(with dome)		
Operating Temperature	0°C to +45°C		

Credential Support

COGNIFACE INTEGRA100	Face, PIN and RFID Card
COGNIFACE INTEGRA200	Finger, PIN and RFID Card

FCC Compliance

This device complies with part15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits of Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE   RoHS COMPLIANT   FCC

Disposal of Product after End-Of-Life
WEEE Directive 2002/96/EC

The product refered is covered by the waste Electrical and Electronic Equipment (WEEE) directive and must be disposed of in a responsible manner.

At the end of product life cycle; batteries, soldered boards, metal components and plastic components must be disposed through recyclers.

If you are unable to dispose-off the products or unable to locate e-waste recyclers, you may return the products to Matrix Return Material Authorization (RMA) department.

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