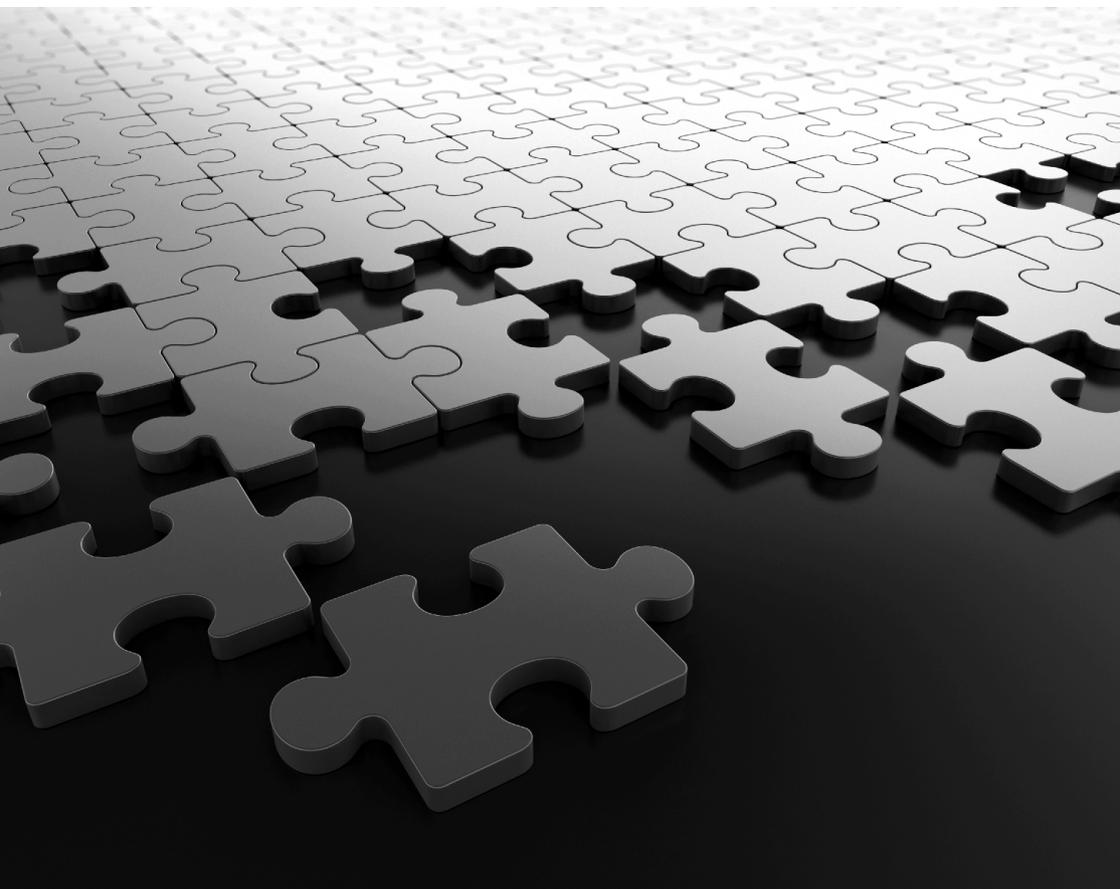


**VISION**  
**Quick Start**





## **VISION**

The Office Communicator

*Quick Start*



# Documentation Disclaimer

Matrix Comsec reserves the right to make changes in the design or components of the product as engineering and manufacturing may warrant. Specifications are subject to change without notice.

This is a general documentation for all models of the product. The product may not support all the features and facilities described in the documentation.

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# Contents

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<b>Know Your VISION .....</b>	<b>1</b>
<i>Overview .....</i>	<i>1</i>
<b>Installing VISION .....</b>	<b>3</b>
<i>Before you Start .....</i>	<i>3</i>
<i>Installing VISION .....</i>	<i>4</i>
<b>Configuring VISION .....</b>	<b>7</b>
<i>How to Configure .....</i>	<i>7</i>
<i>Test Calls .....</i>	<i>13</i>
<i>Reinstate Default Settings .....</i>	<i>13</i>
<i>Forgot Programming Password? .....</i>	<i>14</i>

# *Know Your VISION*

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Thank you for choosing the Matrix VISION! Please read the instructions in this Quick Start carefully to install and program this versatile Small and Medium Business PBX with powerful features.

## Overview

The VISION is available in 3 models:

- VISION 206S (2 trunk lines, 6 stations)
- VISION 308S (3 trunk lines, 8 stations)
- VISION 309P (3 trunk lines, 9 stations)

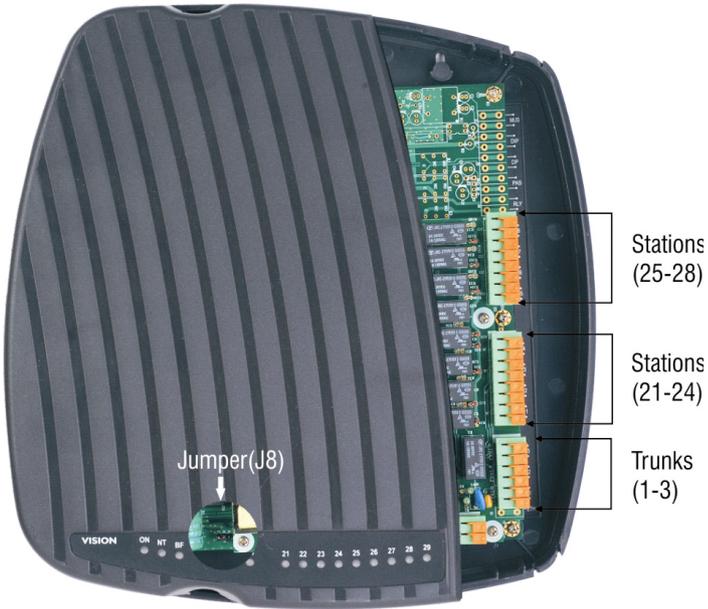
VISION 206S and VISION 308S are Standard models. VISION 309P is a Premium model.

This is a common Quick Start for all models. For the purpose of illustration, the model VISION 308S has been used.

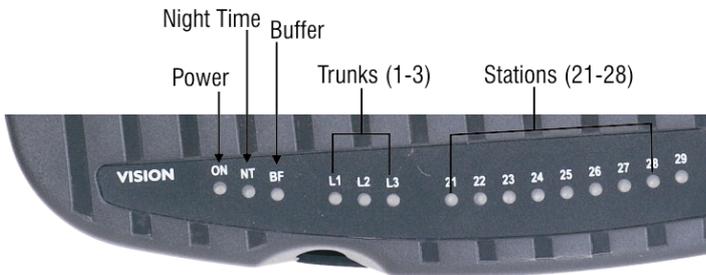
The Trunk ports of VISION are numbered as 0, 1 and 2. The software ports of the stations are numbered from 00-08 in VISION 309P.

The software ports of the stations also have corresponding 'flexible numbers', from 21-29 (default). These flexible numbers can be reprogrammed as per your preference.

# VISION 308S



## LED Indication



# Installing VISION

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## Before you Start

### 1. Verify the package contents.

Unpack the box. Make sure that the package contains the following items.

Sr. No.	Item Name	Quantity
1	VISION Unit	1
2	Battery Cable	1
3	Mounting Template	1
4	Screw Grips	2
5	M7/30 Screw	2
6	Warranty Card Set	1
7	VISION CD (System Manual, Quick Start and User Card)	1
8	VISION Quick Start and User Card (printed copy)	1

If any item is missing or damaged, please contact the dealer/reseller from whom you have purchased your product.

### 2. Get your Trunk and Station Cables ready.

For the Trunk and Stations, use a standard telephone cable (two-pair twisted cable with 0.5 mm connector diameter). The length of the station cable may be extended up to 800 meters.

Strip the ends of the trunk and station cables to be inserted on the system side about 1cm to ensure firm and neat contacts.

### 3. Get your Station Telephones ready.

You will need Single Line Telephones (SLT) to be connected as stations. Any ordinary push button phone, with or without Call Line Display, even cordless phones can be connected to the VISION. Decide the number of stations you would like to connect and arrange for the SLTs.



Use SLTs equipped with a Flash Key, as several features supported by VISION require you to use the Flash Key. If your phone does not have a Flash Key, tap the Hook switch to dial Flash.

## Installing VISION

### 1. Select a suitable place on the wall to mount VISION.

- Use the wall mount template provided in the package, to mark the nail holes on the wall. Drill two holes of appropriate size. Fix the two M 7/30 screws (supplied) in the holes you drilled on the wall with the help of the screw grips (supplied). The screws must protrude slightly from the wall. Align the keyhole slots on the backside of VISION with the screws fixed on the wall. Slide the VISION down on the screws to secure it on the wall.

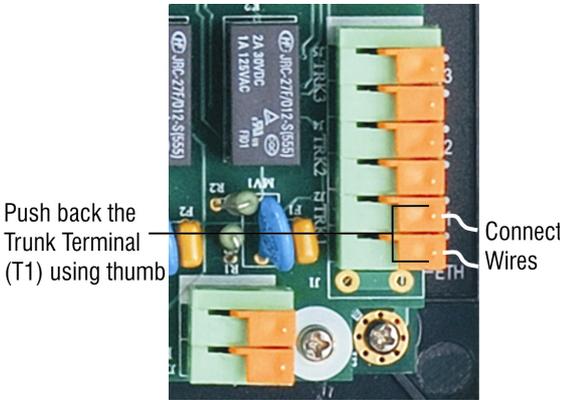
You may also mount VISION on a table, with its front side facing up.

### 2. Connect the Trunk line and the Station lines.

- Remove the cover of the VISION by pressing the snaps on the top panel as indicated in the figure below.



- Using your thumb and index finger, grip and push back the **Trunk Terminal (T1)**. Insert the stripped ends of the two wires of the trunk cable into the two terminal openings (one wire in each opening). Release your grip. Ensure that both wires fit neatly.



- Similarly, using your thumb and index finger, grip and push back the **Station Terminal** of Station number 01. Insert the stripped ends of each wire of the station cable into the openings (one wire in each opening). Release your grip. Ensure that both wires fit neatly.

Push back the Station Terminal 1 (21) using thumb



Connect Wires

Repeat the above steps to connect other Trunks and Stations.

### 3. Connect a Computer.

- Connect the COM Port of VISION to the COM Port of the Computer using the RS232C cable (9-pin, with D-type female connectors at both ends).

On the Windows operating system use the Hyperterminal to generate the Configuration and the Station Message Detail Recording Reports. For detailed instructions refer to the System Manual.



To access the Hyperterminal, on a Windows operating system, select **Start→All Programs →Accessories →Communications →Hyperterminal.**

#### **4. Connect Other Interfaces.**

- VISION 309P provides other interfaces like Auto Attendant, Door Phone, Door Lock, External Music devices, Public Address System and the Security Dialer. To connect these interfaces,
  - Locate the respective terminal connector.
  - Follow the same instructions as given under **Connect the Trunk line and the Station lines.** For detailed information and instructions, refer to the System Manual.

#### **5. Connect a Battery.**

- To ensure that the system works even when there is no power supply, you must connect a battery of 12V/7AH to the system. Ensure that the battery is fully charged.

Use the Battery cable (supplied by Matrix) to connect a battery of 12V/7AH to the Battery Terminal on the system as per the polarity indications.

#### **6. Power ON VISION.**

- Check voltage in the mains supply. Voltage should be in the range of 90-265VAC, 47-63Hz.
- Insert the 3-pin plug of the power cord into the electrical outlet.
- Switch On the main power supply and observe the Reset Cycle.
- All the LEDs on the front panel will glow at once and remain on for half a second. After this, except for the Power LED all other LEDs will turn Off.

# *Configuring VISION*

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## How to Configure

VISION can be programmed by dialing commands or using the Phone Wizard provided for quick programming of basic features.

Follow the instructions given below to configure the system using the Phone Wizard.

### **1. Enter the Programming Mode from Station-21.**

- Dial 1#98-SE Password (Default:1234)
- You will get the programming tone.

### **2. Set the following System parameters.**

- To set the Current Date, dial:  
**27-Date-Month-Year-Day**  
Where,  
Day = 1-7, 1 = Sunday, 2 = Monday.....7 = Saturday.
- To set the Current Time, dial:  
**28-Hours-Minutes**  
Where,  
Hours = 00-23  
Minutes = 00-59
- To change the SE Password, dial:  
**291-New SE Password**  
Where  
New SE Password must be a number string of 4 digits. Valid Digits: 0 to 9.
- To change the SA Password, dial:  
**292-New SA Password**  
Where  
New SA Password must be a number string of 4 digits. Valid Digits: 0 to 9.

### 3. Set the following Station Parameters.

#### Flexible Number

- To assign a Flexible Number to a station, dial:  
**37-Station Software port number-Flexible number-#\***  
Where,  
Station Software port number = 00-08.  
Flexible number = any 4-digit number.
- To assign Default Flexible Numbers, dial:  
**37-\*-0**



The default Software Port numbers of the stations are 00-08 and their corresponding default flexible numbers are 21-29. A Flexible Number can be changed to any number, a maximum of upto 4 digits.

#### Class of Service

- To assign a different Class of Service (CoS) groups for Day and Night time to a station, dial:  
**31-Flexible number of the Station-Day CoS Group-Night CoS Group**  
Where,  
Day CoS group = 0 to 7.  
Night CoS Group = 0 to 7.
- To assign the same CoS group on all stations, dial:  
**31-\*-Day CoS Group-Night CoS Group**

#### Toll Control

- To set Toll Control on each station, dial:  
**32-Flexible number of the Station-Day Allowed/Denied List-Night Allowed/Denied List**  
Where,  
Allowed List (AL) = 0 to 7.  
Denied List (DL) = 0 to 7.
- To set the same Toll Control on all stations, dial:  
**32-\*-Day Allowed/Denied List-Night Allowed/Denied List**

#### Clear All Features

- To clear all features on a station, dial:  
**343-Flexible Number of the Station**

### Flash Timer

- To set a different Flash Timer Count for a station, dial:  
**36-Flexible number of the Station-Flash Timer Count**  
Flash Timer Count is from 3 to 9 (Count 3 implies 300ms) i.e Flash Timer Count is 6 then Flash timer is 600ms.

### Operator Station

- To program an Operator Station, dial:  
**391-Flexible Number of the Station**

## 4. Set the following Trunk Parameters.

### Dial Type

- To Enable/Disable Dial Type and set the Dial Type for each trunk, dial:  
**41-Trunk-Enable/Disable Flag-Dial Type**  
Where,  
Trunk = 0 to 2.  
Flag is  
Disable = 0.  
Enable = 1.  
  
Dial Type is  
Pulse = 0.  
Tone = 1.
- To Enable/Disable Dial Type and set the same Dial Type for all the trunks, dial:  
**41-\*-Enable/Disable Flag-Dial Type**

### Direct Inward Dialing (DID)

- To Enable/Disable DID on a trunk, dial:  
**43-Trunk-Day Code-Night Code**  
Where,  
Trunk = 0 to 2.  
Day Code / Night Code  
Disable = 0.  
Enable = 1.

### Direct Outward System Access (DOSA)

- To Enable/Disable DOSA on a trunk, dial:  
**45-Trunk-Day Code-Night Code**  
Where,  
Trunk = 0 to 2.  
Day Code / Night Code  
Disable = 0.

Enable = 1.

### **Trunk Landing Destination for the Day Mode**

- To configure the stations as the Trunk Landing Destination for the Day Mode, dial:

**47-Trunk-Stn1-Stn2-Stn3-Stn4**

Where,

Trunk = 0 to 2.

Stn1-Stn4 = Flexible numbers of stations (default: 21-29). A maximum of four destinations can be configured for one trunk.

- To configure the same Trunk Landing Destinations for the Day Mode for all the trunks, dial:

**47-\* -Stn1-Stn2-Stn3-Stn4**

### **Trunk Landing Destination for the Night Mode**

- To configure the stations as the Trunk Landing Destination for the Night Mode, dial:

**48-Trunk-Stn1-Stn2-Stn3-Stn4**

Where,

Trunk = 0 to 2.

Stn1-Stn4 = Flexible numbers of stations (default: 21-29). A maximum of four destinations can be configured for one trunk.

- To configure the same Trunk Landing Destinations for the Night Mode for all the trunks, dial:

**48-\* -Trunk-Stn1-Stn2-Stn3-Stn4**

### **Hunting Scheme**

- To configure a Hunting Scheme on a trunk, dial:

**46-Trunk-Day Hunting Scheme-Night Hunting Scheme**

Where,

Trunk = 0 to 2.

Hunting Scheme is

0 = Hunt Off.

1 = Round Robin Ring.

2 = Delayed Simultaneous Ring.

3 = Immediate Simultaneous Ring.

- To configure the same Hunting Scheme on all the trunks, dial:

**46-\* -Day Hunting Scheme-Night Hunting Scheme**

### **Hunt Timer**

It is the time for which a station rings when a call lands on it. After expiry of the timer, the next station in the Station Group starts ringing.

- To configure the Hunt Timer, dial:

**212-Timer**

Where,

Timer = 01-99 seconds.

**5. Exit the Phone Wizard.**

- Dial '0'

You will get the dial tone.

For the system to function you must also configure the Trunk Access Groups and Codes. Enter the SE programming mode and follow the instructions given below:

**6. Enter System Engineer (SE) Programming Mode:**

- Dial **1#91**-System Engineer (SE) password (Default:1234).

You will get the programming tone.

**7. Assign Trunk Access Groups and Codes to Stations.**

There are 8 Trunk Access Groups, 0-7. Each group can be accessed by using a Trunk Access Code. The default Trunk Access Groups and Trunk Access Codes are as follows:

Trunk Access Group	Trunks in the Group	Access Code to be Dialed to access the Trunks in the Group
0	Trunks 0, 1, 2	0 and 5
1	Trunk 0	61
2	Trunk 1	62
3	Trunk 2	Code not assigned
4	No Trunk	Code not assigned
5	No Trunk	Code not assigned
6	No Trunk	Code not assigned
7	No Trunk	Code not assigned

Trunk Access Group Index	Access Code to be Dialed to access the Trunks in the Group
0	0
1	5
2	61
3	62
4	Code not assigned
5	Code not assigned
6	Code not assigned
7	Code not assigned

By default, all stations can access all trunks by dialing '0' or '5'. Dialing '61' allows access to the first Trunk only. Similarly, dialing '62' allows access to the second Trunk. You can reconfigure the trunk access groups and reassign trunk access group to a station for a particular trunk access code.

- To configure a trunk in a Trunk Access Group, dial:  
**4402-1-Trunk Access Group-Trunk Software Port Number-#**  
Where,  
Trunk Access Group = 0 to 7.  
Trunk Software Port Number = 0 to 2.
- To configure the same trunks in all the Trunk Access Groups, dial:  
**4402-\*-0-1-2-#**
- To assign the default values to a Trunk Access Group, dial:  
**4401-1-Trunk Access Group-#**
- To assign the default values to all the Trunk Access Groups, dial:  
**4401-\*-#**
- To configure a Rotation Code for a Trunk Access Group, dial:  
**4403-1-Trunk Access Group-Rotation Code**  
Where,  
Trunk Access Group=0 to 7.  
Rotation Code is  
0=Off Rotation  
1=On Rotation
- To configure the same Rotation Code for all the Trunk Access Group, dial:  
**4403-\*-Rotation Code**
- To assign a Trunk Access Group and Trunk Access Code to a station for Day time, dial:  
**4411-1-Station-Trunk Access Group Index-Trunk Access Group-#\***  
Where,  
Station = Software port numbers 00 to 08.  
Trunk Access Group Index = 0 to 3.  
Trunk Access Group = 0 to 7.
- To assign a Trunk Access Group and a Trunk Access Code to all stations for Day time, dial:  
**4411-\*-Trunk Access Group Index-Trunk Access Group**
- To assign a Trunk Access Group and Trunk Access Code to a station for Night time, dial:  
**4412-1-Station-Trunk Access Group Index-Trunk Access Group-#\***

- Assign a Trunk Access Group and Trunk Access Code to all stations for Night time, dial:  
**4412-\*Trunk Access Group Index-Trunk Access Group**

#### 8. Exit the SE Programming Mode.

- Dial **00**.

Congratulations! Your VISION is now ready for call operations.

## Test Calls

### Making a call

To make an external call:

- Lift the handset of a station phone.
- Dial '**0**' or '**5**' to access any Trunk.
- Wait for Dial tone.
- Dial the desired number.
- Talk.
- Replace the handset to disconnect.

To make an internal call:

- Lift the handset of a station phone.
- Dial the desired station number.
- Talk.
- Replace the handset to disconnect.

### Receiving a call

To receive an incoming call:

- Lift the handset when the station rings.
- Talk.
- Replace handset to disconnect.

## Reinstate Default Settings

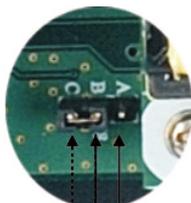
To reinstate the default settings:

- Enter the programming mode. (Dial 1#91- SE Password)
- Dial **1103-Reverse SE Password** to default the system.
- Dial **1107-\*#** to default all timers.

## Forgot Programming Password?

To restore the default value of the programming password:

- Switch off power supply, plug out the power cord.
- Remove top cover.
- Change position of mini jumper on the PCB (**J8**) to A-B position as shown below.



AB Position BC Position

- Plug in power cord, switch on power supply.
- Wait for 15 seconds. **Do not touch the device!**
- Switch off power supply, remove power cord.
- Restore mini jumper to original position B-C.
- Replace top cover.
- Switch on power supply.
- Default SE password is restored.



## **MATRIX COMSEC PVT. LTD.**

### **Corporate Office**

394-GIDC, Makarpura, Vadodara - 390010, India.  
Tel.: +91 265 2630555, Fax: +91 265 2636598  
E-mail: [Info@MatrixComSec.com](mailto:Info@MatrixComSec.com)

### **Factory**

15 & 19-GIDC, Waghodia - 391760, Dist. Vadodara, India.  
Tel.: +91 2668 263172/73

### **Customer Care**

Tel.: +91 265 2630555  
E-mail: [Customer.Care@MatrixComSec.com](mailto:Customer.Care@MatrixComSec.com), [Support@MatrixComSec.com](mailto:Support@MatrixComSec.com)

[www.MatrixComSec.com](http://www.MatrixComSec.com)