IP 2 Smart Home Intercom
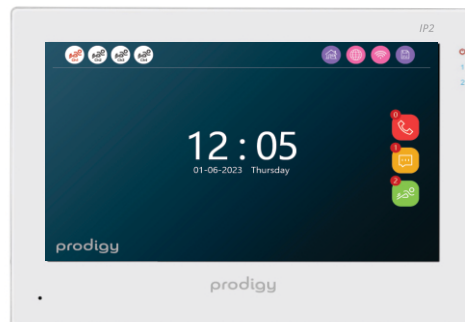## IP Based High Definition Touch Screen
2 Wire System
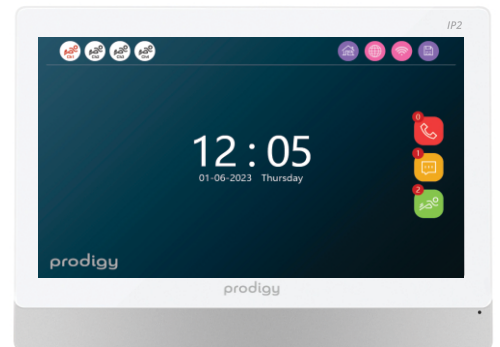
IP2-DS   **IP2-DS-KP**   **IP2-7IM**   **IP2-9IM**

ALL APP Configuration and Motion Alarm Settings are made on the First Monitor ONLY
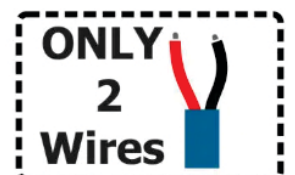
ONLY
2
Wires

Table of Contents

Specifications

IP2-7IM/IP2-9IM

Screen: 7"/9" 1024x600
Video Standard: PAL
Power Supply: 24V DC
Wi-Fi: 2.4GHZ
Expansion: Max 128.GB Micro SD
Operation temp.: -10~+50℃
Installation: Surface mount

7"

9"
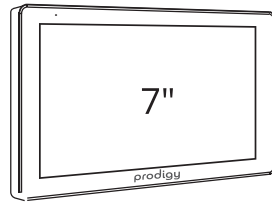
Dimensions: 127(H)x184(W)x24(D)mm
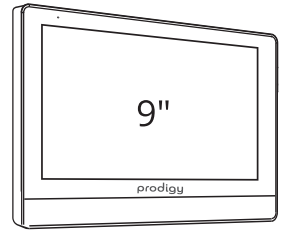
Dimensions: 162(H)x223(W)x24(D)mm

IP2-DS-KP
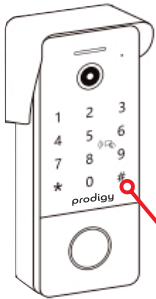
Camera Sensor: CMOS
View angle: 3.2mm(148°)
Definition(Hor.): 1080
Night Vision: IR LEDs(120°)
Power supply: Via Intercom BUS Line
Operation temp.: -10~+50℃
Installation: Surface mount

Built In IC Tag Reader

Dimensions: 138(H)x68(W)x33-39(D)mm

IP2-DS

Camera Sensor: CMOS
View angle: 3.2mm(148°)
Definition(Hor.): 1080
Night Vision: IR LEDs(120°)
Power supply: Via Intercom BUS Line
Operation temp.: -10~+50℃
Installation: Surface mount

Dimensions: 128(H)x58(W)x24-34(D)mm

Micro SD Card Instructions

Before inserting a Micro SD card please ensure to pre-format on a computer as follows:
16/32GB Capacity formatted to **FAT32**
64/128GB Capacity formatter to **exFAT**

The maximum capacity is 128GB

After inserting the Micro SD card which has been formatted by PC we must format from the monitor main menu - settings - system then Formatting SD.

12 : 05

IP2-7

SD Card Contact
towards **REAR**

LEXAR

12 : 05

SD Card Contact
towards **FRONT**

IP2-9

Monitor Installation (IP2-7IM/IP2-9IM)

Cables

Wall Plugs

9"

7"

150-160cm

Outdoor Station Installation

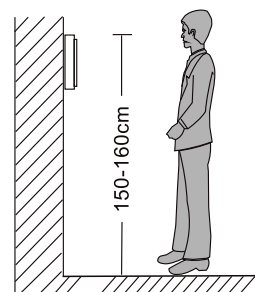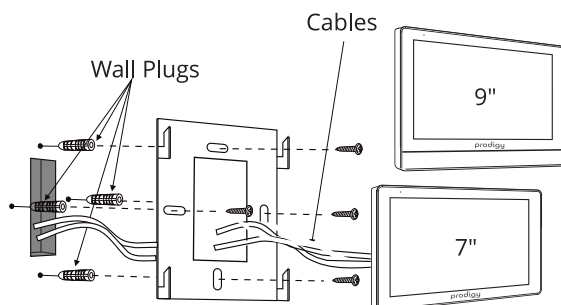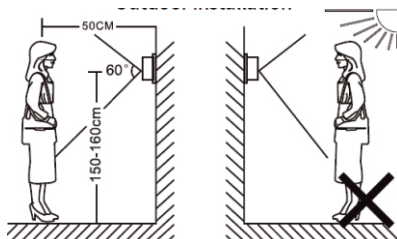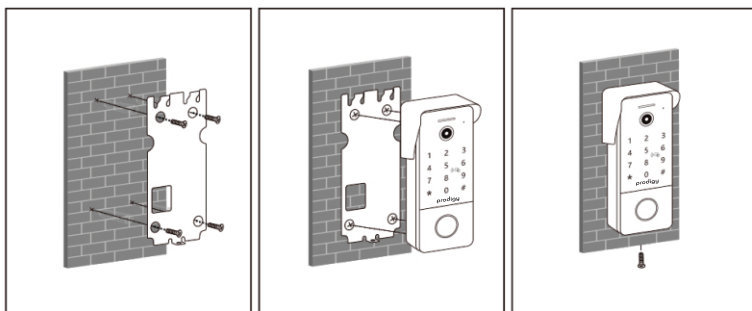- Avoid (if possible) installing the outdoor station where it will be seeing direct sunshine as it can affect the video quality.
- Keep all cabling and the device at least 30cm away from AC power to avoid induction and interference
- Always ensure the system is de-powered whilst carrying out any work

Outdoor Station Installation (IP2-DS-KP)

1. Install the sticky side of the gasket to the BACK (WALL SIDE) of backing plate
2. Drill the 6mm diameter holes for the outdoor station mounting
3. Install the backing plate to the post/wall
3. Connect the wires through the hole
4. Fasten the bottom security screw

Outdoor Station Installation (IP2-DS)
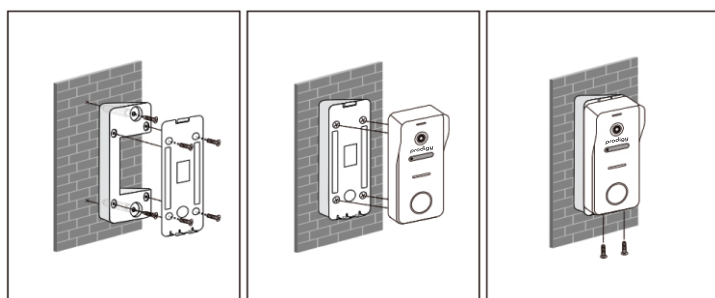
Wedge Bracket Method
1. Drill the 6mm diameter holes for the wedge bracket mounting
2. Install the sticky side of the gasket to the BACK (WALL SIDE) of the outdoor stations backing plate
2. Install the backing plate to the wedge bracket (Four screws)
3. Connect the wires through the hole
4. Fasten the bottom security screws

Direct Method
1. Install the sticky side of the gasket to the BACK (WALL SIDE) of the outdoor stations backing plate
2. Drill the 6mm diameter holes for the outdoor station mounting
3. Install the backing plate to the post/wall
3. Connect the wires through the hole
4. Fasten the bottom security screws

Basic System Wiring

DC

Refer to Outdoor Station Section for Door Release Connection

Set Device ID 1

DC IN

BUS B

Set Device ID 2

DC IN

BUS B

2   2   2   2

2 Wire Connector Detail

Black   Black
Red   Red

Connect **RED** to **RED** - Connect **BLACK** to **BLACK**

IP2-DS Overview

Red (BUS +)
Black (BUS -)

To Indoor Monitor

Gate/Door Release

Grey (Exit Button Common)
Orange (Exit Button N/O)
Black/White (GND)
Green (Relay N/C)
Blue (Relay COM)
Brown (Relay N/O)

IP2-DS-KP Overview

Set Button

To Indoor Monitor

Gate/Door Release

Orange (Exit Button N/O)
Red (DC 12V)
Black (GND/COM)
Green (Relay N/C)
Blue (Relay COM)
Brown (Relay N/O)

IP2-DS-KP Electric Strike (Power ON to Unlock/Fail Secure)

Black

Blue

Join Brown

Red

Gate/Door Release

Not Used

Orange (Exit Button N/O)
Green (Relay N/C)

IP2-DS-KP Automatic Gate/Garage Door

Typical Input Names:
OSC/PB/START

Blue

Brown

Gate/Door Release

Not Used

Orange (Exit Button N/O)
Red (DC 12V)
Black (GND/COM)
Green (Relay N/C)

IP2-DS-KP Egress/Exit Button

PRESS TO EXIT

Orange

Black

Gate/Door Release

IP2-DS Egress/Exit Button

PRESS TO EXIT

Orange

Grey

Gate/Door Release

IP2-DS Electric Strike (Power ON to Unlock/Fail Secure)

12V Power Adapter

+→ Blue

←+ Brown

Gate/Door Release

IP2-DS Automatic Gate

Typical Input Names:
OSC/PB/START

Brown

Blue

Gate/Door Release

Set Device ID 1

DC IN

GND
VCC
24V-IN
BUS -
BUS +
BUS -
BUS +

BUS 1

2

Set Device ID 2

DC IN

GND
VCC
24V-IN
BUS -
BUS +
BUS -
BUS +

BUS 1

2

Set Device ID 3

DC IN

GND
VCC
24V-IN
BUS -
BUS +
BUS -
BUS +

BUS 1

2

→ Next Indoor Monitor

DC

2

DC

2

2

→ Next Outdoor Station

2 Wire Connector Detail

Black — Black
Red — Red

Connect **RED** to **RED** - Connect **BLACK** to **BLACK**

Refer to Outdoor Station Section for Door Release Connection

SEE PAGE 9 for MULTI-MONITOR/MULTI-OUTDOOR STATION POWER ON SEQUNCE

Set Device ID 1

DC IN

GND
VCC
24V-IN
BUS -
BUS +
BUS -
BUS +

BUS 0

2

BUS 1

BUS 1

2

Set Device ID 2

DC IN

GND
VCC
24V-IN
BUS -
BUS +
BUS -
BUS +

BUS 0

BUS 1

2

Set Device ID 3

DC IN

GND
VCC
24V-IN
BUS -
BUS +
BUS -
BUS +

BUS 1

2

→ Next Indoor Monitor

→ Next Outdoor Station

DC

2

2

DC

2

2 Wire Connector Detail

Black — Black
Red — Red

Connect **RED** to **RED** - Connect **BLACK** to **BLACK**

Refer to Outdoor Station Section for Door Release Connection

SEE PAGE 9 for MULTI-MONITOR/MULTI-OUTDOOR STATION POWER ON SEQUNCE

Method 3 System Wiring in a Star to Parallel (Bus line Powered - No Adapters)

Set Device ID 1

BUS 1

Set Device ID 2

BUS 1

Set Device ID 3

BUS 1

L N

ON OFF

BUS+ BUS- BUS+ BUS-

DC

DC

Next Indoor Monitor

Next Outdoor Station

Refer to Outdoor Station Section for Door Release Connection

Connector Detail

BUS+ BUS- BUS+ BUS-

Red

Black

Black

Red

Connect **RED** to **BUS+** - Connect **BLACK** to **BUS-**

SEE PAGE 9 for MULTI-MONITOR/MULTI-OUTDOOR STATION POWER ON SEQUNCE
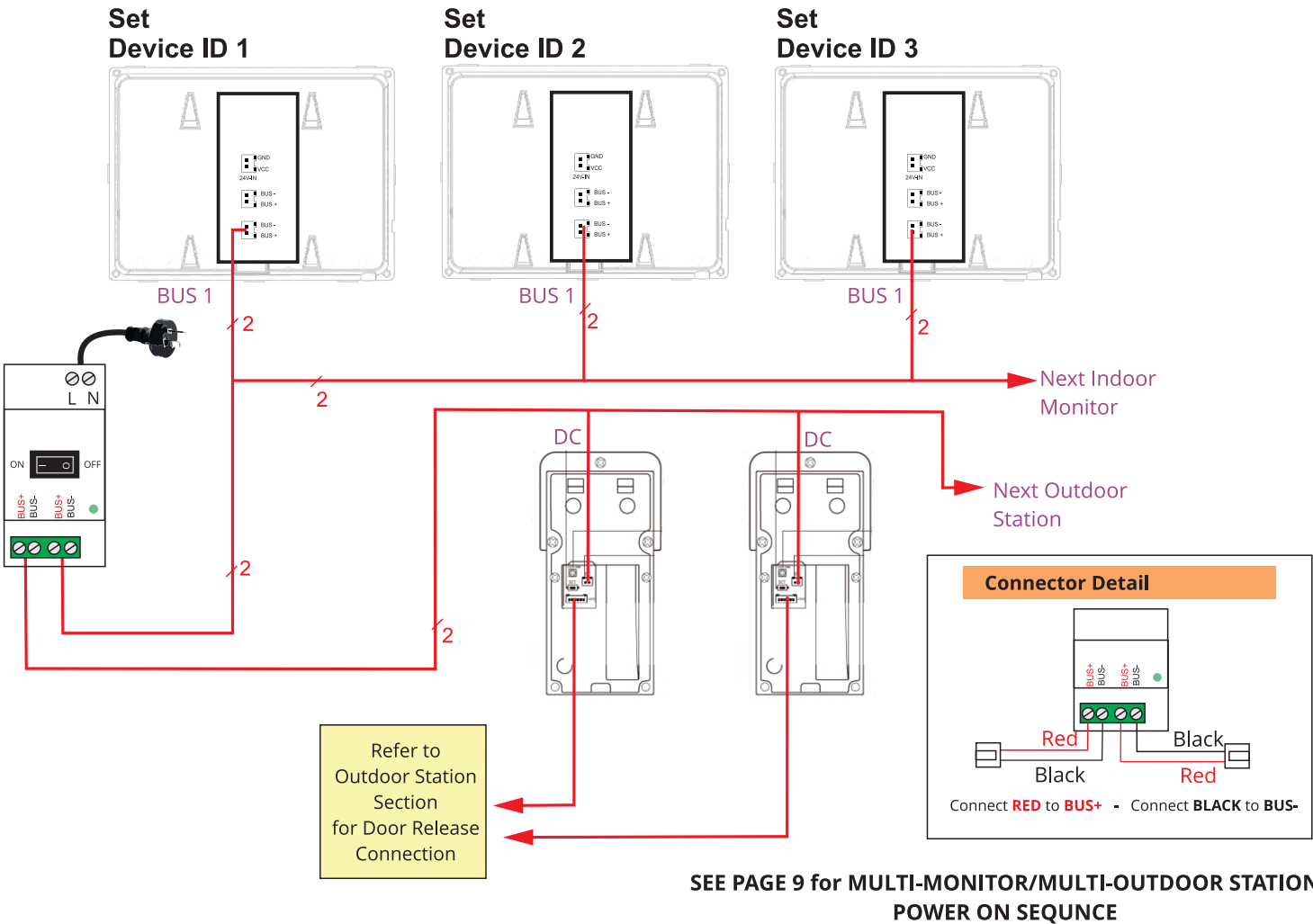
Method 4 System Wiring in Star (Bus line Powered - No Adapters)

Set Device ID 1

BUS 1

Set Device ID 2

BUS 1

Set Device ID 3

BUS 1

L N

ON OFF

BUS+ BUS- BUS+ BUS-

Next Indoor Monitor

DC

DC

Next Outdoor Station

Refer to Outdoor Station Section for Door Release Connection

Connector Detail

BUS+ BUS- BUS+ BUS-

Red

Black

Black

Red

Connect **RED** to **BUS+** - Connect **BLACK** to **BUS-**

SEE PAGE 9 for MULTI-MONITOR/MULTI-OUTDOOR STATION POWER ON SEQUNCE

System Map

	Change ADMIN Code 0#	New ADMIN Code xxxxxx#
	Add Unlock PIN CODE 1#	USER ID xxx# Add Unlock PIN CODE xxxxxx#
Enter ADMIN CODE (123456) #	Delete Unlock PIN CODE 2#	User ID for Unlock PIN CODE XXX#
	Add Swipe Tag 3#	USER ID xxx# Swipe the Tag
	Delete ALL Swipe Tags 4#	99#
	Keypad Back light Setting 7#	Disabled 00# Always ON 01# Upon Touch 02#
	Unlock time (from Keypad/EM) 8#	In seconds 1#~9#

Setting USER PIN codes

1. In standby mode enter the ADMIN CODE (DEFAULT 123456) and press # button to enter settings the settings. A double long beep sound will be heard.

2. Press 1 and # button to enter into the menu of adding an UNLOCK PIN CODE. One long beep sound will be heard.

3. Set 3-digitUser ID from 000 to 199, and press # button. One long beep sound will be heard.

4. Set a 6-digit UNLOCK PIN CODE and press # button. One long beep sound will be heard if successfully added. If current USER ID is already occupied then a double short beep sound will be heard.

5. Press * button twice to exit into standby mode. Double short beep sound will be heard.

Example:
Add 333333 password into 003 cell number and 444444 password into 004 cell number.
123456#1#003#333333#**
123456#1#004#444444#**

Adding Swipe Tags

1. In standby mode enter the ADMIN CODE (DEFAULT 123456) and press # button to enter settings the settings. A double long beep sound will be heard.

2. Press 3 and # button to enter into the menu of adding an UNLOCK PIN CODE. One long beep sound will be heard.

3. Set 3-digitUser ID from 000 to 199, and press # button. One long beep sound will be heard.

4. Touch the swipe tag to the outdoor station read symbol. One long beep sound will be heard if successful added.

5. Press * button twice to exit into standby mode. Double short beep sound will be heard.

Example:
Add Swipe Tag into 005 User ID Number
123456#3#005# Touch the tag to the reader**
Add RFID key into 006User ID Number
123456#3#006# Touch the tag to the reader**

Keypad Unlock Time (Electric Striker Plates Only)

Please note that the set time on the indoor monitor will always overwrite the unlock time of the outdoor unit each time the door bell call button is pressed.

1. In standby mode enter the ADMIN CODE (DEFAULT 123456) and press # button to enter settings the settings. A double long beep sound will be heard.

2. Press 8 and # button to enter into the menu of UNLOCKING TIME. One long beep sound will be heard.

3. Type in the unlocking time in seconds (1-9) followed by #

4. Press * button to exit into standby mode. Double short beep sound will be heard.

Deleting PIN Code Users

1. In standby mode enter the ADMIN CODE (DEFAULT 123456) and press # button to enter settings the settings. A double long beep sound will be heard.

2. Press 2 and # button to enter into the menu of adding an UNLOCK PIN CODE. One long beep sound will be heard.

3. Input the 3-digit User ID relating to the PIN to be deleted and press # button. One long beep sound will be heard.
OR
to Delete ALL PIN USERS input 99 then press #

Press * button twice to exit into standby mode. Double short beep sound will be heard.

Example:
Delete passwords from 003 and 004 user id:
123456#2#003#**
123456#2#004#**
delete all passwords:
123456#2#99#**

Deleting Swipe Tag users

1. In standby mode enter the ADMIN CODE (DEFAULT 123456) and press # button to enter settings the settings. A double long beep sound will be heard.

2. Press 4 and # button to enter into the menu of adding an UNLOCK PIN CODE. One long beep sound will be heard.

3. Input the 3-digit User ID relating to the swipe tag to be deleted and press # button. One long beep sound will be heard.
OR
to Delete ALL swipe tag USERS input 99 then press #

Press * button twice to exit into standby mode. Double short beep sound will be heard.

Example:
Delete swipe tags from 003 and 004 user id:
123456#4#003#**
123456#4#004#**
delete all swipe tags:
123456#4#99#**

Change the ADMIN Code

1. In standby mode enter the ADMIN code (default code is 123456) and press # button to enter settings mode.

2. A double long beep sound will be heard. Press 0 and # button to enter into ADMIN Code setup mode. One long beep sound will be heard.

3. Enter a new 6-digit password and press # button. One long beep sound will be heard.
Press * button to exit into standby mode. Double short beep sound will be heard.

Keypad Backlight

1. In standby mode enter the ADMIN CODE (DEFAULT 123456) and press # button to enter settings the settings. A double long beep sound will be heard.

2. Press 7 and # button to enter into the menu of adding an UNLOCK PIN CODE. One long beep sound will be heard.

3. Type in one of the following based on the setting required:
00# - keypad backlight disabled
01# - keypad backlight Always ON
02# - keyboard backlight ON upon touch

4. Press * button to exit into standby mode. Double short beep sound will be heard.

Example:
Enable keypad backlight only when touched
123456#7#02#*

Reset to Factory Default

1. Whilst the outdoor unit is still connected to the BUS line press and hold the SET button for 3 Seconds and release a long beep will be heard.

2. Immediately press the reset button 3 times consecutively and 3x long beeps heard.

Multi-Monitor Power ON Procedure

The system is designed to Automatically assign its own internal IP addressing with no user interference, power up the devices as follows:

Under no circumstances should the BUS LINE power supply be used to power an indoor monitor on the DC input, ALWAYS use a power adapter.

Ensure NO BUS line is connected to the Monitors, Ensure any outdoor stations are not connected to the BUS line, Outdoor Station(s) are connected afterwards.
1. Power ON all INDOOR MONITORS ONLY **without** a BUS LINE connection <u>using a power adapter</u> (Fig. 1)
2. Go to Settings and select Factory Reset (Fig. 2)
3. Power Down all Monitors

4. Connect the BUS line to the FIRST INDOOR MONITOR and Power ON the FIRST INDOOR MONITOR (if using power adapters)
- Wait 60 seconds

5. Connect the BUS Line to the SECOND INDOOR MONITOR
6. Power ON the SECOND INDOOR MONITOR (if using power adapters), it MAY prompt to Restart System, press OK
- Wait 60 seconds

<u>* Repeat steps 5 and 6 for any further indoor monitors</u>

Fig. 1
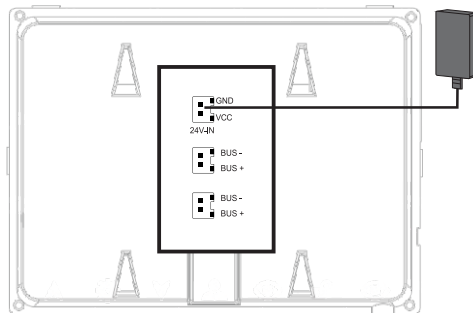
Power on by power adapter

Fig. 2
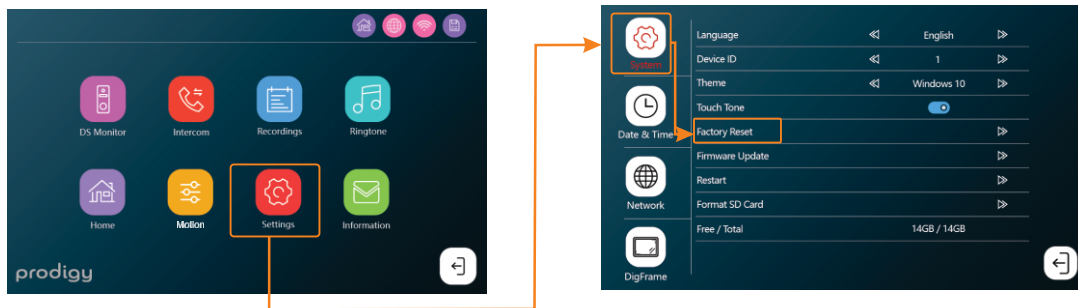
Multi-Outdoor Station Power ON Procedure

Upon power ON of the outdoor station it will be assigned an IP address. The system allows for assignment into a specific door position by assigning the IP of the connected outdoor station manually to the channel.

1. Connect the BUS line to the first outdoor station (Door 1) then wait 60 seconds
2. Go to DS Monitor ON THE FIRST MONITOR and select DS 1 Settings.
3. Use the Search to Find the Door station and select to add it as DS 1.

4. Connect the BUS line to the NEXT outdoor station (Door 2) then wait 60 seconds
4. Go to DS Monitor ON THE FIRST MONITOR and select DS 2 Settings.
5. Use the Search to Find the Door station and select to add it as DS 2.

Repeat the Above for DS 3 and DS 4 if applicable.

Monitor Speaker volume
(only appears whilst the audio communication takes place such as answering a call)

Brightness, Contrast and Colour Intensity

Adjustment	Take a Photo Snapshot	Take a Video Recording	Switch Outdoor Station	Door Release (Outdoor Station)	Answer/ End Call
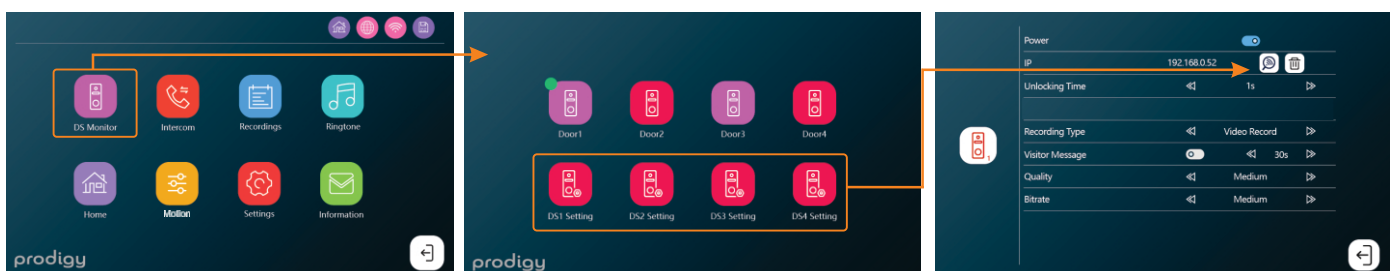
Graphic User Interface

Main Menu

Home
Ring tones are as per the scheduled settings, visitor prompts to leave a message after the set timeout (micro sd card must be installed) for the voicemail feature

Away
The visitor is prompted to leave a message immediately (micro sd card must be installed)

Do Not Disturb
Functions as per HOME method EXCEPT the monitor will not ring

Wi-Fi Connection Status

APP Connection Status

SD Card Status

Clock Screen

Motion Detection
Enabled/Disabled

12 : 05
01-06-2023 Thursday
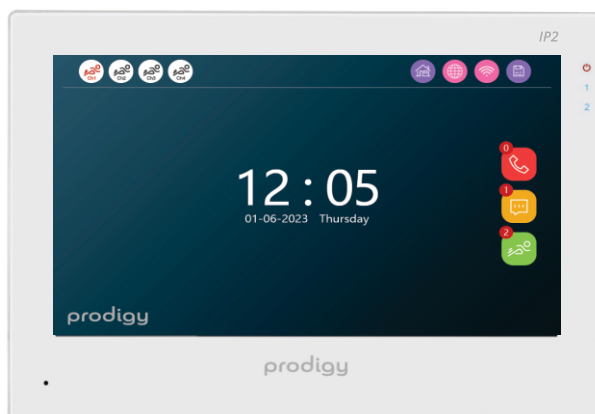
Call Log

Visitor Message Log

Motion Detection Log

DS Monitor

If only one outdoor station is connected then Door 1 is the primary.

If multiple outdoor stations are connected there allocation is configured by the DS settings for that particular channel.
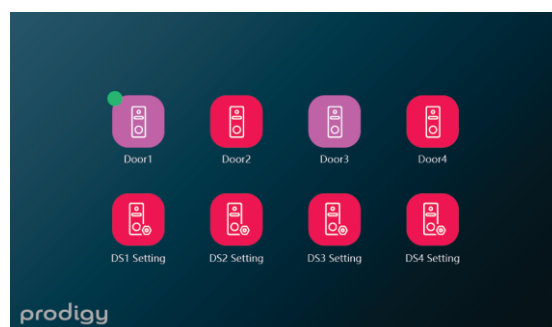
DS Settings

Power will only work once an IP is nominated to the outdoor station channel.

Use the **IP scan function** (Magnifying glass) to add connected outdoor stations, it is good practice to only have the desired outdoor station to be added powered on to help with identification.

Unlock Time nominates the release time when pressing unlock.

Recording type (SD card required) will set to take photos or short videos when the guest rings the doorbell.

Visitor Message (SD card required) will request to leave a message after the nominated timeout.

Quality and Bitrate can be adjusted to cater for low quality cables used in the application.
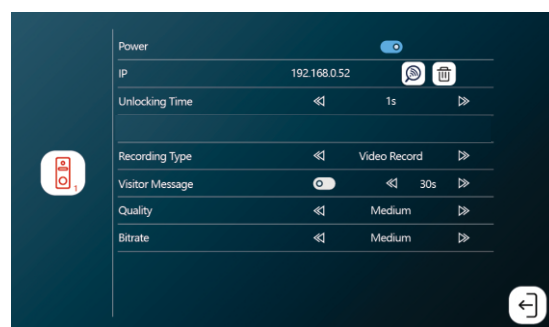
Motion
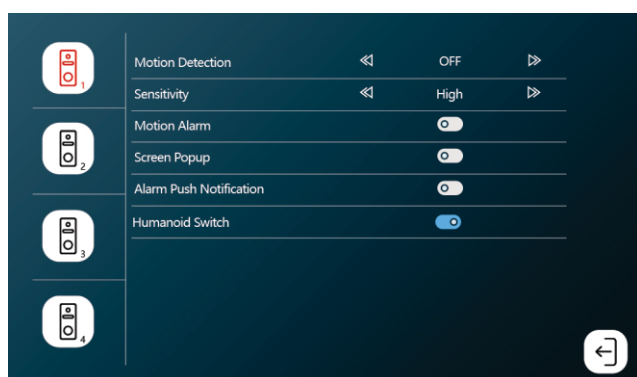
OFF/Motion sets the motion detection mode to be based on any motion OR OFF.

The **Sensitivity** Can be set to High, Medium or Low

Motion Alarm creates an audible alarm tone from the monitor when motion is detected.

Screen Popup Will show the real time video upon each motion event.

Alarm Push Notification Sets the devices connected to the APP to also prompt a notification.

PLEASE NOTE THAT MOTION DETECTION EVENTS ARE TRIGGERED BY ANY MOVEMENTS. IT IS BEST TO SET THE MOTION DETECTION ONLY FOR UNITS IN SHELTERED AREAS SUCH AS ENTRY DOORWAYS.

Recordings

Select a specific outdoor station or ALL Outdoor stations

Select the event type of Call, Motion Detection, Visitor Message or ALL events

Select a specific date/time

Filter and Search

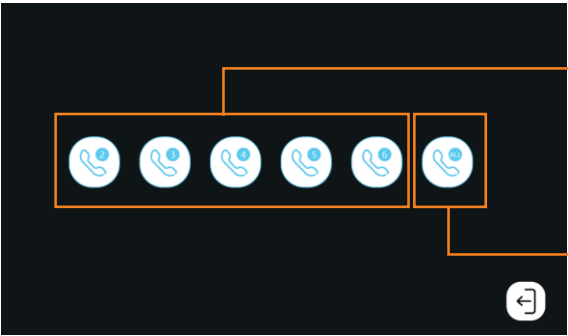Select a specific date within the month

Channel	Time	Type
Cam1	11:12:20	0001 jpg
Door1	09:45:39	0006 avi
Door1	09:13:45	0003 avi
Door1	09:01:06	0002 avi
Door1	08:18:48	0003 avi
Door1	07:36:24	0015 avi
Door1	01:23:02	0018 avi

1 / 1

Intercom

Intercom Call a specific monitor
Each INDIVIDUAL indoor monitors Device ID number is set via the;
Settings menu then System sub menu

Intercom Call ALL Indoor Monitors

Settings

Languages: Select from English, German, French, Spanish, Italian and Polish
Device ID: Set the INDOOR monitors identification number
Theme: Three designs to choose from (See below)
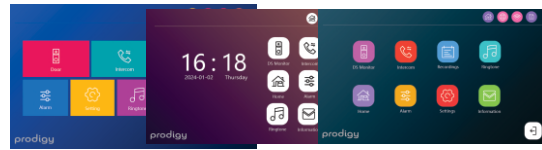
Touch Tone: Enable/Disable the indoor monitors touch tone
Factory Reset: Reset the indoor monitor to factory default
Firmware Update: Used for patch updates
Restart System: Reboot the System
Format SD Card: A necessity when installing a new SD card into the system. A pre-format is required by PC:
* FAT32 for 16/32GB cards OR * exFAT for 64/128GB Cards
Free/Total: Advises the available space and capacity of the installed SD card
SW Versions: The current version of software in use
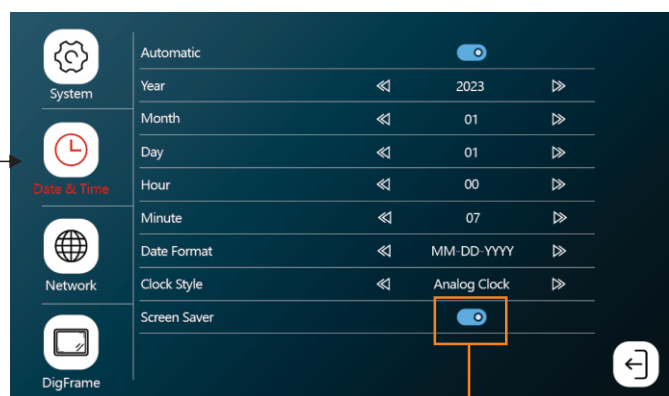
Set the Date, Time and Format of Date

The system will hold time for up to 100 hours without power thanks to the on-board super capacitor)

Clock Style: Set the menu EXIT screen as either an analogue format clock, digital time.

Analogue Clock/Digital Time will always return to Standby/OFF after 10 seconds OR move on to screen saver if enabled.

Screen Saver: If enabled will show a graphical wallpaper based on the time of day.
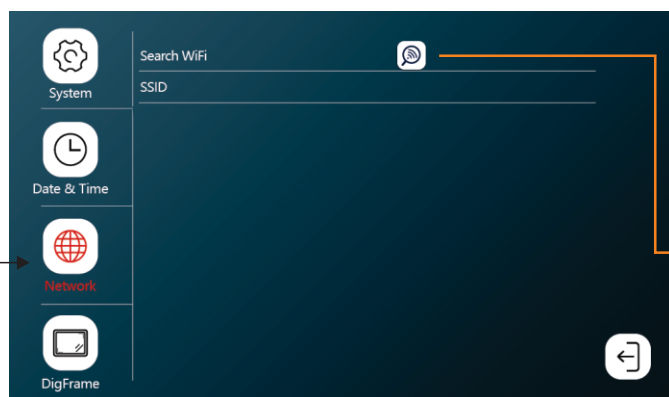
Search WiFi to find the 2.4GHZ WiFi networks that are broadcasting. Select your homes network and input the password to connect the device to the Tuya/Smartlife servers.
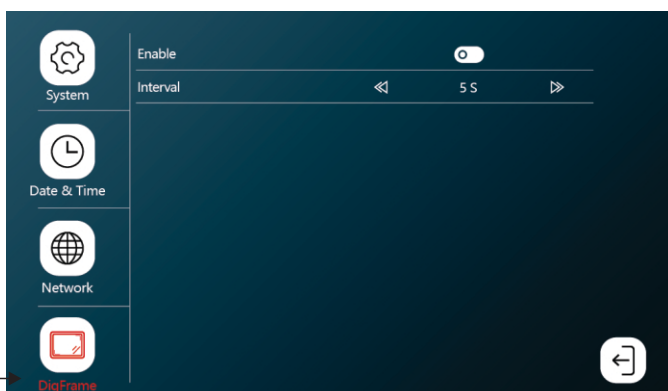
Enable/Disable the Digital Photo Frame, *a Micro Sd card is required with .jpg images loaded to the correct folder.*

Interval dictates how long a photo will show on the screen before the next photo is shown.
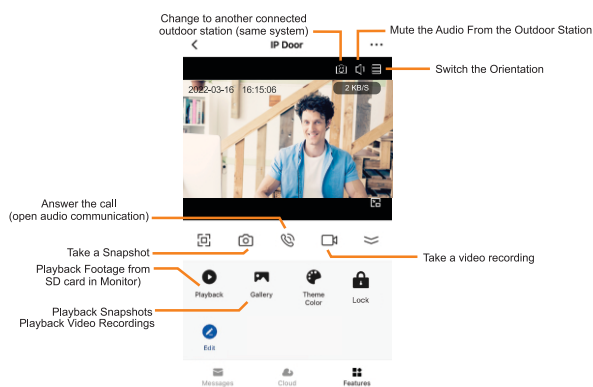
Micro SD Card Folder Structure

After initial use the system will create a folder structure as shown below onto the micro sd card. This allows for UPLOAD of images, music and videos for Media and Digital photo frame along with the DOWNLOAD of stored videos and photos taken by the system
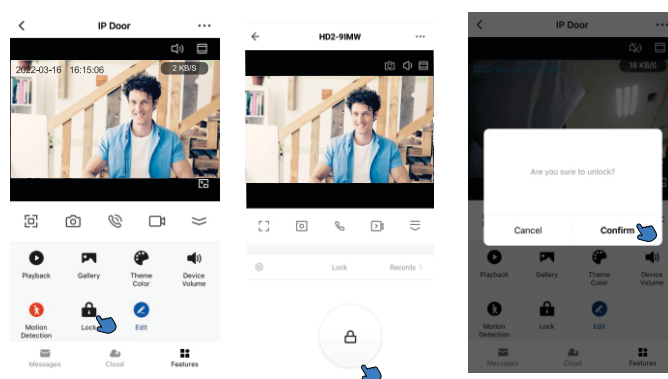
2024 — Year Folder contains all recordings within the year, the sub folders are broken into months and days

DigitalFrame — Digital Photo Frame Photos

Ring — Custom Mp3 Format ring tones

Acceptable upload for audio (.mp3 format) 2mb max, 30 seconds length
Acceptable upload for images (.jpg format Landscape orientation)

APP Operation

Change to another connected outdoor station (same system)
Mute the Audio From the Outdoor Station
Switch the Orientation
Answer the call (open audio communication)
Take a Snapshot
Playback Footage from SD card in Monitor)
Take a video recording
Playback Snapshots
Playback Video Recordings

Door Release Feature

Are you sure to unlock?
Cancel   Confirm

Register an account (each device)

1. Download the app by scanning the QR code OR download directly from the APP Store.
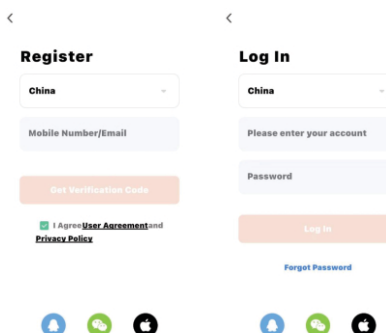
Tuya Smart app   **Smart Life app**

2. Register an account or sign in if you already have an account. ENSURE you use the correct country upon registration.

Register
China
Mobile Number/Email
Get Verification Code
☑ I Agree User Agreement and Privacy Policy

Log In
China
Please enter your account
Password
Log In
Forgot Password

This is a required step if you wish to share access with other users. If you plan to be the only user please disregard and add the device (next section).

1. From the settings select MY HOME on the first users APP, add the relevant "rooms" or create a new room.
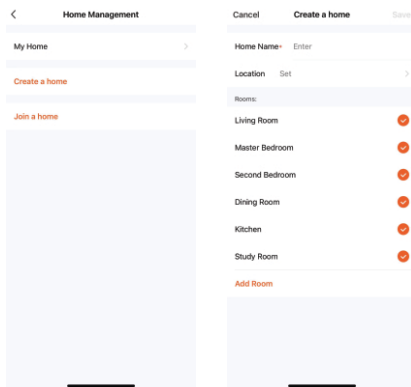
2. Add a user to the HOME and assign there pillages via Family Role, they could be common users (normal user) or an Administrator. note: Any users being added must have already registered and signed into there account
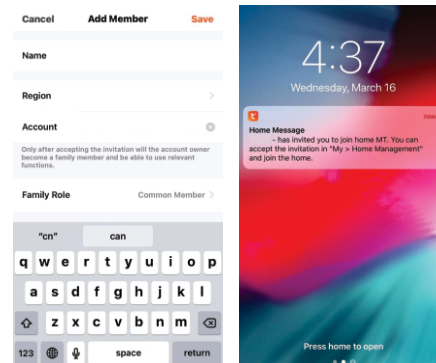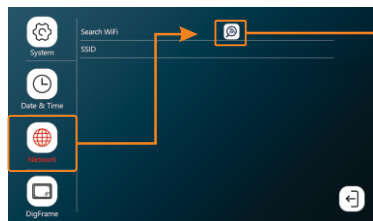

3. The new user(s) now have access to the HOME devices after they accept, begin to add the device in the next section.

Connecting to Wi-Fi (2.4GHZ Only)
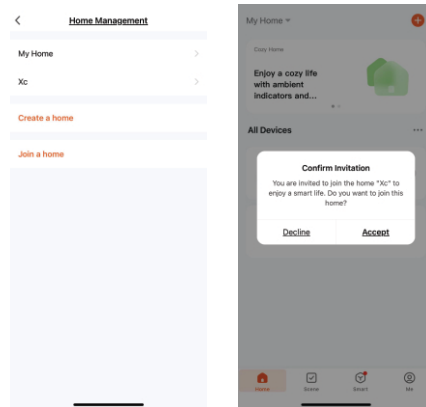
Ensure the Wi-Fi 2.4GHZ band is enabled, if not consult your modem/router user guide.
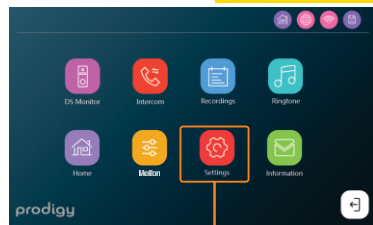
From the menu select "Settings"

Go to the "Network" Sub-Menu then press the 🛜 to search available 2.4GHZ Wi-Fi networks.

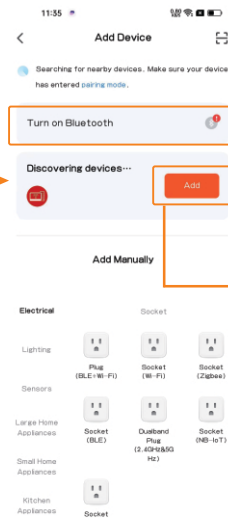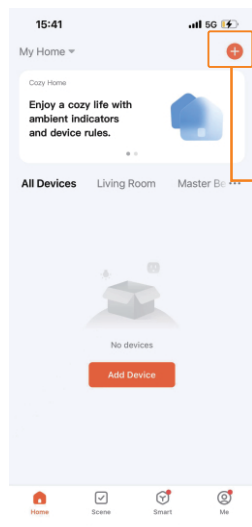Select YOUR 2.4GHZ Wi-Fi Network then press the Password field.

Input the correct password then press ✓
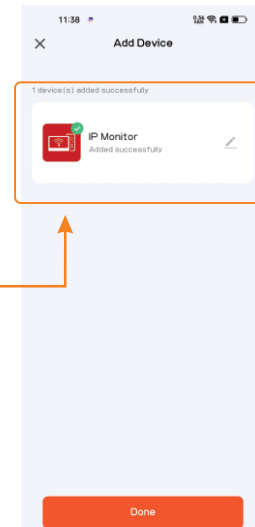
Adding the Intercom to the Home Owners APP

Ensure the mobile device is connected to the SAME Wi-Fi Network as the intercom for this step.

From the APP menu select ⊕ in the top right corner.

The APP will AUTO SCAN, if prompted to turn on Bluetooth or other communications please do so.
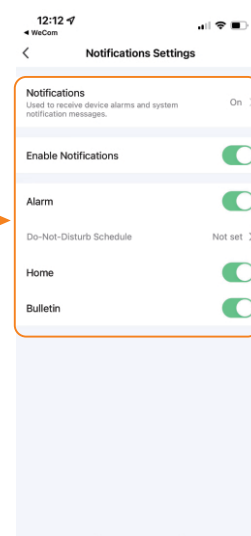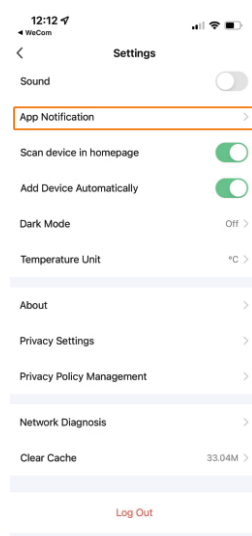
Once the device is found press Add

The device will be added and ready to use.

Motion Detection in Mobile Device Settings

Ensure that motion detection is enabled on the first intercom monitor before settings adjustment on the mobile phone, typically these setting adjustments are not required unless permissions were not accepted on first launch of APP.
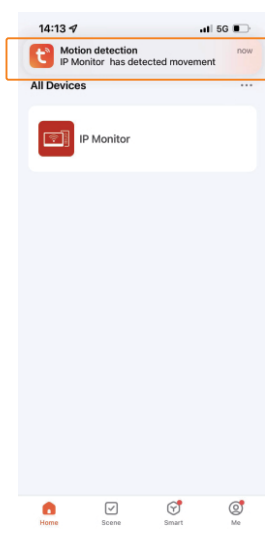
Warranty Terms and Conditions

The product is warranted for a period of twelve months (one year) from the date of purchase, unless expressly specified as extended warranty (extension to the warranty period). The product is to be installed for its intended purpose and for normal use as outlined within the installation manual, the product warranty is exclusively for defects in manufacturing and manufacturing workmanship. It does not cover out of guidelines use, natural or other disasters, abnormal weather conditions, damage incurred in shipping or handling, damage caused by disaster such as fire, flood, wind, earthquake, lightning, excessive voltage, mechanical shock, water damage, damage caused by unauthorized attachment, alterations, modifications, or foreign objects, damage caused by peripherals (unless such peripherals were supplied by Prodigy), defects caused by failure to provide a suitable installation environment for the products, damage caused by usage of the products for purpose other than those for which it was designed, damage from improper maintenance, damage arising out of any other abuse, mishandling, and improper application of the products.

At is discretion Prodigy will require the item determined by the support staff to be returned to base in it original unmodified condition for a warranty inspection if within the warranty period. A return authorization "RA" number will be provided to be enclosed with the product in question. The warranty will not cover freight fees to base, customs fees or any labour costs at the installation site but will cover repair or replacement of the product as seen fit. Prodigy will cover the freight of the returned item to the original address if deemed as a warranty repair or replacement item. Any warranty repairs or replacements continue to carry through the remaining warranty period and do not extend or restart the period.

Under no circumstances shall Prodigy be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose). And of all other obligations or purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

Prodigy will at its option repair or replace out-of-warranty products at a determined cost which are returned to its base according to the following conditions. Anyone returning goods to Prodigy must first obtain an authorization number. Prodigy will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which Prodigy determines to be repairable will be repaired and returned. A set fee which Prodigy has been predetermined and which may be revised from time to time will be charged for each unit repaired. Products which Prodigy determines not repairable will be replaced by the nearest equivalent product available at that time. The current market price for the replacement product will be charged for each replacement unit.