

2N Telecommunications

H.I.M. USER GUIDE

Helios Interface Module



Helios Interface Module for Single PSTN Line



PRODUCT DESCRIPTION

The Helios Interface Module (HIM) is designed to connect the Helios Door Phone device to all telephones connected to a Residential Telephone line, by ringing them, so that you can answer and communicate with your visitor.

The Helios Interface Module (HIM) can also allow your Helios Door Phone device to DIAL OUT to a pre-programmed external telephone number if you are not home. It can do this after a User Selectable number of Rings or Immediately.

Once correctly installed, HIM will RING all of the telephones that are connected to it as soon as a visitor pressing the Call Button of the attached Helios Door Phone activates it.

If you are using an ordinary single telephone line, you will notice that your telephones WILL RING DIFFERENTLY, to alert you that the call is from your Door Phone.

If you are using a Cordless Phone or a Commander/PABX telephone line, your telephones MAY NOT RING DIFFERENTLY, as many of these devices ignore our ring and output their own ring.

HIM can be used with MOST CORDLESS PHONE MODELS. However, a small number of CORDLESS PHONE MODELS totally ignore the ring from HIM and will NOT RING when there is a Door Phone call.

CORDED TELEPHONES will ALWAYS RING, and will alert users of CORDLESS PHONES that do not ring that there is an incoming Door Phone call. You can still ANSWER and COMMUNICATE with CORDLESS PHONES that do not ring.

HELIOS DOOR PHONE PROGRAMMING

To enter the programming menu of the Helios Door phone pick up any telephone press **##** and wait. When you hear the confirmation beeps enter the factory password * **12345** * and you have entered the programming menu. **To exit the programming menu you must press the # Key.**

HELIOS DOOR PHONE DIAL OUT

By simply answering any ringing telephone on your line, you will be immediately connected direct to your visitor, so that you can converse with them. When you are finished with your conversation, you may need to press key code for the door lock and then the **# key to cause Helios to hang up.**

If you are already on a telephone call, HIM will instead inject a faint 'Beeping Tone' into the background of your call to alert you. You will then be able to place your existing call 'ON HOLD' and switch to the door or gate by simply pressing the **##** key (twice) on your telephone. To resume your original call, all you need due is to press **##** again. This can be done as many times as required.

GATE or DOOR LOCK RELEASE

Your Helios Door Phone provides for electric Lock or Gate release. You can open the door/gate by entering the key code set up during installation

Call-Forward using HIM

Your Helios Interface Module (HIM) can also allow your Helios Door Phone device to DIAL OUT to a pre-programmed external telephone number if you are not home. **Your Helios Door Phone needs to be programmed with an External Telephone number to do this. Please refer to your Helios Door Phone User Guide for further detail.**

HIM can be programmed to allow the Helios Door Phone to call out immediately. To effect immediate Dial Out, **HIM** should be switched to '**Unattended Mode**' from any telephone on your line.

To set '**Unattended Mode**' (Dials out immediately to pre-programmed number like your mobile)

Pick up any telephone, press #1 and then hang up. (You will hear 1 beep' to confirm setting)

When returning to your site, **HIM** can then be quickly and easily switched to '**Attended Mode**' from any telephone on your line. In this mode Helios will only DIAL OUT if the Door Phone call is not answered after the preprogrammed ring count.

To set '**Attended Mode**' (Rings the home phones)

Pick up any telephone, press #2 and then hang up. (You will hear 2 'beeps' to confirm setting)

You must press # at the end of your conversation to terminate the call.

INSTALLATION

An ACA approved installation technician will fit your **HIM** direct onto your incoming telephone line, immediately ahead of your first telephone socket, so that your telephone line connects to all of your telephone sockets through it. **HIM** has been designed so that it will not interfere with the normal use of your telephone line in any way. In the event of a malfunction or power cut, your telephone line will continue to operate.

NOTE. For operation of HIM on a telephone line fitted with the ADSL service, please refer to later in ADSL section.

The following instructions describe a typical installation procedure for fitting **HIM** to an ordinary telephone line. Alternative procedures which provide for INCOMING TELEPHONE LINE connection to the LINE PORT of HIM, connection of all extension telephones to the PHONE PORT of **HIM** and connection of the DOOR PHONE to the DOOR STATION PORT of HIM, may be used by the suitably qualified installation technician that you are using.

INSTALLATION INSTRUCTIONS

1) Your **HIM** unit must be fitted inside the home or office. It must not be fitted outside, next to the Door Phone.

Fit a NEW 611 TYPE telephone socket next to the ORIGINAL first telephone socket. It is best to use a TYPE 611 socket instead of the normal TYPE 610, as this socket contains switching contacts that will automatically reconnect the ORIGINAL telephone socket to the incoming telephone line, should the cable to **HIM** ever be disconnected. (A double telephone socket that contains switching contacts can also be used in lieu of separate sockets). This NEW 611 socket should be labeled **HIM ONL Y**. No other devices should be connected to this socket. If a normal telephone is to be used at this location, it should be connected to the ORIGINAL first telephone socket, along with the PHONE PORT of **HIM**, using a normal Double Telephone adaptor.

2) Transfer the incoming telephone line (normally a BLACK CABLE) from the ORIGINAL first telephone socket to the corresponding positions 2 & 6 on the NEW telephone socket. Leave all other telephone cables connected to the ORIGINAL socket, as these are the connections to your EXTENSION telephones.

3) Now connect pins 1 & 5 of the NEW TYPE 611 socket to pins 2 & 6 of the ORIGINAL telephone socket. By doing so, the incoming telephone line will be automatically reconnected to the ORIGINAL telephone should the cable to **HIM** ever be disconnected.

4) Connect the LINE PORT of **HIM** to the NEW TYPE 611 telephone socket, using a suitable telephone cable fitted with a male plug.

5) Connect the PHONE PORT of **HIM** to the ORIGINAL telephone socket, using the supplied telephone cable fitted with a male plug.

6) Connect the supplied 12V power adaptor to HIM, and switch the POWER ON.

7) Connect the HELIOS DOOR PHONE to the DOOR STATION PORT of HIM.

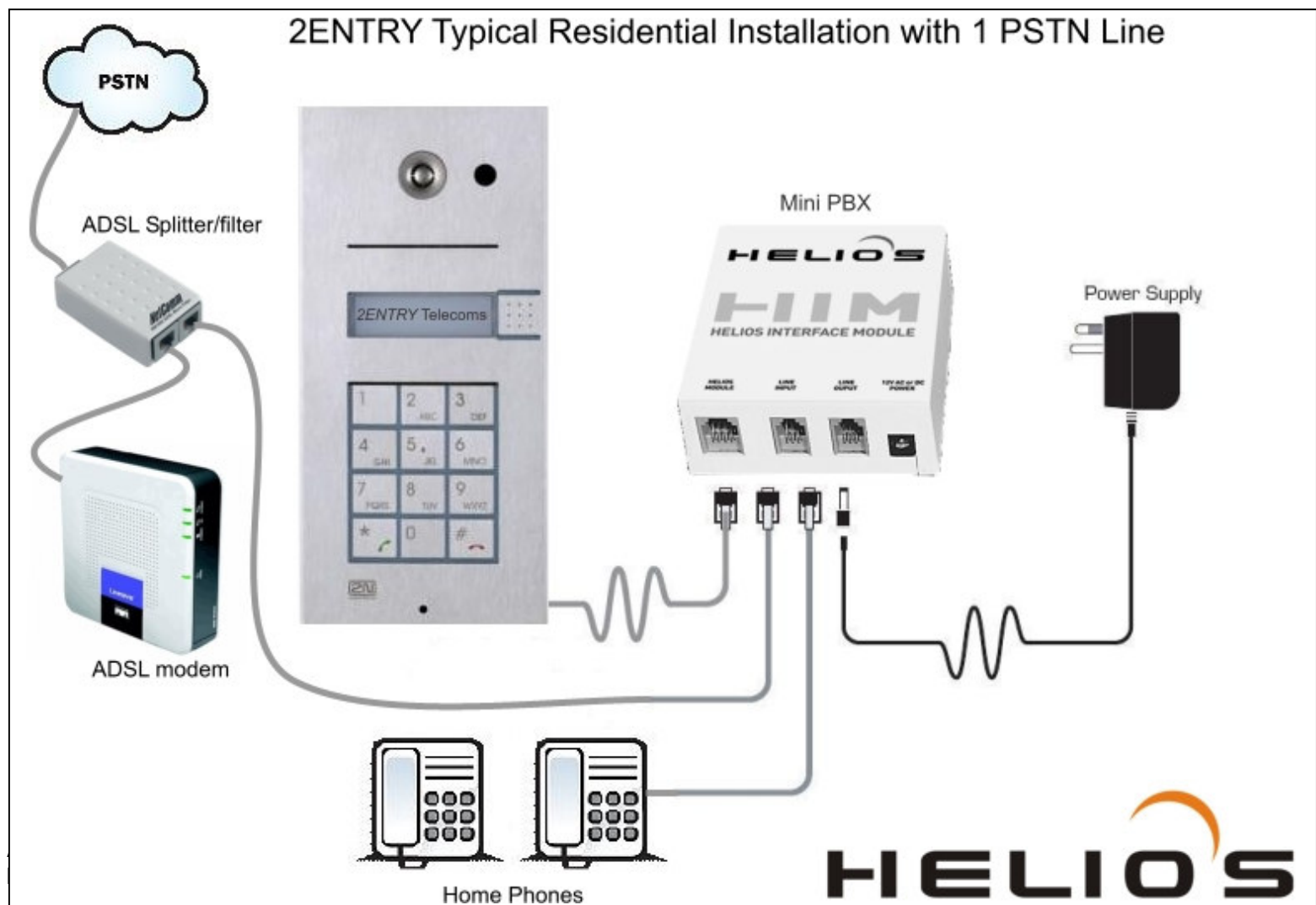
Run a solid core telephone cable (preferably CAT5) between the **HIM** Door Phone port and the Helios Door Phone. **HIM** has a 6pin RJ format socket.

8) Please now refer to the separate User Guide supplied with your Helios Door Phone, to obtain important information.

TESTING INSTALLATION

Test the HELIOS DOOR PHONE connection by pressing the Call Button on the Door Phone. All telephones should RING. Have someone answer a telephone is and then communicate.

Please ensure that you use a telephone that is located at least 10m away from the Helios Door Phone for your testing.



ADSL USERS

However to avoid conflict, it is ESSENTIAL to fit a SINGLE High Quality 'CENTRAL' ADSL filter immediately ahead of HIM. Failure to do so, or use of additional ADSL filters connected direct to your telephones, WILL cause problems in the operation of your Door Station and ADSL service.

Please Note -Basic ADSL FILTERS, designed for separate connection to each telephone on your line (as usually supplied with ADSL modems) are not suitable.

A High Quality 'CENTRAL' ADSL FILTER (model C10245E), suitable for filtering your complete telephone line, is available as an option. You can purchase these from your Dealer, or any TELSTRA shop.

DIAL OUT ALARMS

HIM can be used with a DIAL OUT SECURITY ALARM on same telephone line

However to avoid conflict, it is ESSENTIAL to fit the DIAL OUT SECURITY ALARM on the telephone line AHEAD of the **HIM** unit, using a MODE 3 switch.

If ADSL is also to be used on this same line, then it is ESSENTIAL to fit single High Quality ADSL filter immediately ahead of the MODE 3 Switch, being the first point on the telephone.

This means that the Security Alarm, **HIM** and all telephones connected on the telephone line have adequate filtering from the high frequency ADSL communication.

TROUBLESHOOTING AUDIO

If you are having trouble with AUDIO COMMUNICATION between the DOOR PHONE and ANY TELEPHONES on your line, please follow the procedure below.

Most problems encountered are caused by site-specific conditions. Through a process of elimination, problems can be determined and then rectified. The best way to do this is to isolate our equipment from the existing devices/cable, using the following procedure:

1. Disconnect the telephone cable from the LINE OUT port of your **HIM** unit and connect a single corded telephone into this port. Now test communication with this single phone. If satisfactory operation can be achieved, you should then fault find your problem with the wiring or telephones downstream of our unit by connecting them to our unit 1 device at a time.
2. If satisfactory operation cannot be achieved, you should then disconnect the telephone cable from the DOOR PHONE port of your **HIM** unit and then temporarily run NEW CATS cable from the **HIM** to your DOOR PHONE. If satisfactory operation can be achieved, you should then fault find your problem in the wiring leading to the DOOR PHONE unit.
3. If satisfactory operation cannot be achieved, you should then disconnect the telephone line input to the LINE IN port of your **HIM** unit (with the telephone line disconnected, audio communication can be achieved, but DTMF operation will not work.

If satisfactory operation can be achieved, you should then fault find your problem caused by the incoming telephone line. If you are using ADSL, ensure that you are using a high quality central style filter such as the C10 model C10245M device available from your dealer.

TO prevent sound quality Issues due to VOX problems, the telephone used for testing should be at least several meters away from the Door Phone.

If you are having trouble with AUDIO QUALITY, please trouble shoot by using the following procedure:

A) ADSL INTERFERENCE

You MUST ENSURE that a HIGH QUALITY ADSL FILTER is fitted on the LINE INPUT immediately ahead of our HIM Controller.

B) EMF INTERFERENCE

From Switch Mode Power Supplies or low end UPS (Uninterruptible Power Supplies).

Switch Mode Power Supplies are well known causes of induced interference.

Cordless Phones in particular can suffer or cause **EMF** problems

Please **TURN OFF** all **SWITCH MODE POWER SUPPLIES** located near the **HIM** controller to test for Interference.

If by turning off all nearby power supplies your audio quality improves, you should then reconnect 1 power adaptor at a time to determine the source of the problem. Once identified, the problem source should be relocated away from the **HIM** unit, at a suitable distance that overcomes interference.

SPECIFICATIONS

Dimensions:	95 x 89 x 32 mm
Weight:	225g
Power Supply:	12VAC or 12VDC/500mA
Power Consumption:	Idle -0.5 Watts Voice Call -0.75 Wat18 Ringing -3.0 Watts
Ringer Equivalence:	0.3 REN
Line In Connector:	RJ 11 6 pin (2 center)
Line Out Connector:	RJ 11 6 pin (2 center)
Door Station Connector:	RJ 11 6 pin (Audio 2 Centre)
Power Connector:	2.5mm barrel connector
ACA Compliant:	Supplier Number N 782

Your **HIM** device is guaranteed against defects from workmanship for a period of two years (24 months) from date of purchase. In the event of failure, you should return the product, along with proof of purchase date, and a written statement about the nature of the problem for replacement.

This Warranty shall not apply to any unit, which has been subject to alteration, modification, abuse, negligence, accident, external voltage, lightning surge or used in any manner contrary to these instructions. The user is responsible for freight costs to the repair point. Warrantor will be responsible for freighting the replacement unit back to the user. This Warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. The obligation is solely to repair or replace the product. The warrantor is not liable for any incidental or consequential damages due to such defects. Damage caused to the line sharer, or attached equipment, by lightning strikes or over voltage surge is not covered under the terms and conditions of your warranty.

CASE SEALED AT FACTORY OPENING THE CASE VOIDS THE WARRANTY