

English Version





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Preface

The practice of the Islamic Religion is structured upon five pillars, known as the Pillars of Islam. Prayer is the most important of the five pillars of Islamic religion. The Almighty God Allah has ordered Muslims to pray five times every day and night at stated times. Each prayer occurs at a particular time of the day and these times differ for every day of the year, depending upon daily changes in sunrise and sunset timings.

The God Almighty has also ordered that every Muslim, when performing his prayers, must face towards the Ka'aba, the Inviolable Place of worship, in Mecca, Saudi Arabia.

The HIL1 prayer clock, based upon audio/video alarms for each Prayer, will facilitate Muslim believers to practice their religious obligations.





Chapter 1

Legal & Regulatory

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FCC information (FCC ID: PVIHIL1IPTEQ)

FCC notice "Declaration of Conformity Information"

This equipment has been tested and found to comply with the limits for aClass B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in aparticular installation. If this equipment does cause harmful interference toradio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Only peripherals complying with the FCC class B limits may be attached to this equipment. Operation with non-compliant peripherals or peripherals not





recommended by Ipteq is likely to result in interference to radio and TV reception.

Changes or modifications made to this equipment, not expressly approved by lpteq or parties authorized by lpteqcould void the user's authority to operate the equipment.

NOTE:The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC conditions

This device complies with part 15 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.

Contact

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FAX. +41 22 594 84 26
www.ipteq.com

Caution: Exposure to Radio Frequency Radiation.

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types HIL 1 (FCC ID:PVIHIL1IPTEQ) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification when properly worn on the body is 0.212 W/kg. This device was tested for typical body-worn operations with the back of the device contact with the body. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The radiated output power of the Wireless LAN is far below the FCC radiofrequency exposure limits. Nevertheless, the Wireless LAN shall be used in such a manner that the potential for human contact during normal operation is minimized.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for





the general population; consult Safety Code 6, obtainable from Health Canada's website.

CE compliance



This product is carrying the CE-Mark in compliance with the related European Directives (1999/5/EC).

Responsible for CEMarking islpteq S.A., Avenue du Casino 52 1820, Montreux – Switzerland.

NOTE: Observe the national local regulations in the location where the device is to be used. This

device may be restricted for use in some or all member states of the European Union (EU)

Caution: Exposure to Radio Frequency Radiation.

The SAR limit of Europe is 2.0 W/kg. Device types HIL 1 has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification when properly worn on the body is 0.147 W/kg. This device was tested for typical body-worn operations with the back of the device contact with the body. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.

Working environment

The Electromagnetic Compliance (EMC) of this product has been verifiedtypically for this product category for a so called Residential, Commercial & Light Industry Environment. Any other working environment has not been verified by Ipteq and the use of this product in these working environments is maybe restricted or cannot be recommended. Possible consequences of the use of this product in not verified working environments can be: Disturbances of other products or of this product in the nearby surrounding area with temporarily malfunction or data loss/corruption as result. Example of not verified working environments and related advices:

Industrial environment (e.g. where 3-phase 380V mains is being used mainly): Danger of disturbances of this product due to possible strong electromagnetic fields especially near to big machinery or power units.

Medical environment: The compliance to the Medical Product Directive has not been verified by Ipteq, therefore this product cannot be used as a medical





product without further verification. The use in usual office environments e.g. in hospitals should be no problem if there is no restriction by the responsible administration.

Automotive environment: Please search the owner instructions of the related vehicle for advices regarding the use of this product (category).

Aviation environment: Please follow the instructions of the flight personnel regarding restrictions of use.

Additional environments not related to EMC

Outdoor use: As a typical home/office equipment this product has nospecial resistance against ingress of moisture and is not strong shock proofed.

Explosive atmosphere: The use of this product in such special working environment (Ex) is not allowed.

REACH - Compliance Statement

Following information is only valid for EU-member States: REACH - Compliance Statement.

The new European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007.

Ipteq will meet all REACH requirements and is committed to provide our customers with information about the chemical substances in our products according to REACH regulation.

Following Information is only valid for EU-member States:

Disposal of products



The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centers.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to





prevent potential negative consequences for the environment and human

Disposal of batteries and/or accumulators



The crossed out wheeled dust bin symbol indicates thatbatteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or

cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

Please refer to the section "Remove battery from HIL 1" to get more details on how remove the battery safely.

Following information is only for India



The use of this symbol indicates that this product may notbe treated as household waste.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

These symbols may not stick depending on the country and region where you purchased.

Canadian regulatory information (Canada only)

This digital apparatus does not exceed the Class B limits for radio noiseemissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

Note that Canadian Department of Communications (DOC) regulations provide, that changes or modifications not expressly approved bylpteq could void your authority to operate this equipment.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cetappareilnumérique de la class B respectetoutes les exgences du

Règlementsur le matérielbrouileur du Canada.

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Canada - Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

Following information is only for Turkey

Compliant with EEE Regulations: Ipteq meets all requirements ofTurkish regulation 26891 "Restriction of the use of certain hazardous substances in electrical and electronic equipment".

The number of possible pixel failures of your display is defined according to ISO 9241-307 standards. If the number of pixel failures is less than this standard, they will not be counted as defect or failure.

Battery is a consumption product, since the battery time depends on the usage of your HIL1. If the battery cannot be charged at all, then it is a defect or failure. The changes in battery time is not a defect or failure.





Chapter 2

Introduction

Welcome and thank you for choosing an Ipteqproduct.

About the guide

For your convenience, your Ipteq product is furnished with two guides:

- Quickstart guide, and
- This comprehensive PDF User Manual

We recommend making a backup of this User Manual in case of future reference.

Safety Instruction

All important information on the safe and proper use the HIL 1 is described in this section

In order to avoid malfunction or damage of the product, please carefullyfollow the precautions listed below.

General Information:

- The rating of the equipment is:
 - o Input: AC 100-240V 50/60Hz, 1A
 - Output: DC 5V
- The maximum operating ambient temperature of the equipment declared by the manufacturer is 50°C
- The socket-outlet shall be installed near the equipment and shall be easily accessible
- If the device is not used for long time, disconnect the equipment from the power supply to avoid being damaged by voltage peaks or lighting strike
- The HIL 1 is intended for indoor use only

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- Where the plug portion of the adaptor is used as the disconnect device, the disconnect device shall remain readily operable.
- Excessive sound pressure from earphones and headphones can cause hearing loss.

Do not:

- open the enclosure or product
- disassemble the product or parts of it
- place liquids near or on the product, as it may damage the product,cause personal injury or may result in an electrical shock or fire
- bump, drop or jar the product
- move the product while operating, as data damage may happen
- shake TFT screen hard, otherwise it may break TFT screen and cause incorrect display.
- use other connectors than USB 2.0 bus powered types
- use other AC/DC adaptors than the one bundled with your device, as otherwise your device may be damaged
- disconnect cables while operating
- expose the product to temperatures outside the range of 5°C 50°C while operating, and temperatures of -20°C - 60°C while switched off
- expose the product to wet or damp conditions
- cover the product during operation, as it may become overheated
- place the product close to hot appliances
- use alcohol, diluents or Benzene to clean its surface.

Immediately disconnect the product if:

- smoke or an unusual smell is coming from the product enclosure
- water has entered the product enclosure or if it becomes wet
- an object has entered the product enclosure
- the cable has been damaged (in such case replace the cable with anew one)

CAUTION:

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE





- DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

If the product behaves not as expected or you have doubts about the electrical safety, please contact immediately the Ipteq hotline or an authorized reseller!



Chapter 3

Getting Started

This chapter provides a general overview of your HIL1 and some basicsbefore using your HIL1.

Some of the features described in this manual may not function properly if you use an operating system that was not pre-installed by Ipteq.

Check the components

Check to make sure you have all of the following items:

Hardware

- Ipteq HIL 1
- AC adaptor (2-pin or 3-pin)
- Power cable

Documentation

- Quickstart Guide
- User Manual
- Warranty information

If any of the items is missing or damaged, contact your dealer immediately.

Grand tour

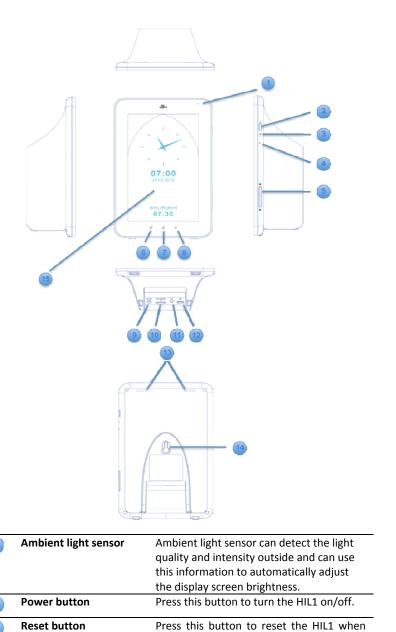
Please handle your product carefully to avoid scratching or damaging thesurface.

The following figure shows each important part of your HIL 1.



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necessary (e.g. when the device doesn't





again. The power/battery indicator LED normally glows orange when the AC adaptor is connected and the internal battery is under charging. Volume down/up Press either of the buttons to decrease or increase the volume. Settings button Press this button to access the Settings Menu Press this button to access the Home
glows orange when the AC adaptor is connected and the internal battery is under charging. Settings button glows orange when the AC adaptor is connected and the internal battery is under charging. Press either of the buttons to decrease or increase the volume. Settings button Press this button to access the Settings Menu
connected and the internal battery is under charging. Settings button Connected and the internal battery is under charging. Press either of the buttons to decrease or increase the volume. Press this button to access the Settings Menu
under charging. Settings button under charging. Press either of the buttons to decrease or increase the volume. Press this button to access the Settings Menu
Settings button Press either of the buttons to decrease or increase the volume. Press this button to access the Settings Menu
button increase the volume. Settings button Press this button to access the Settings Menu
button increase the volume. Settings button Press this button to access the Settings Menu
Menu
Menu
Home button Press this button to access the Home
Menu
Back button Press this button to go back through the UI
menus
OC IN jack Connect the AC adaptor to this jack in
order to power the device and charge the
internal battery.
Please note that you should only use the
AC adaptor supplied with the device at the
time of purchase – using the wrong AC
adaptor can cause damage to the device.
SDcard slot This slot lets you insert a micro SD™ Card
which enables you to transfer data
(software updates) into your HIL1.
Headphone jack A 3.5 mm jack that enables connection to
a stereo headphone
Micro USB Port Service micro USB port used to recover the
system in case of damages
Speaker The speakers emit sound generated by
your HIL1
Wall mount hook Hook used to hang the HIL1 on the wall
Display Screen Display screen brightness can be adjusted
either manually or automatically.
Under certain operating conditions, e.g.
very high ambient temperatures, your HIL1
might automatically dim the screen
brightness in order tomaintain a
reasonable system temperature. This is a
normal protectivefeature and you might
not be able to manually adjust the screen
brightness during auto dimming period.

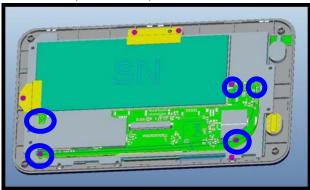




Remove battery from HIL1

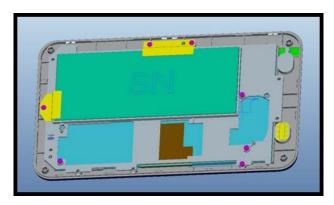
This section provides detailed information to remove the battery from the HIL1 safely.

1. Remove the bottom cover and remove the five screws which lock the main-board (illustration 3.1)



Sample Illustration 3.1

2. Pull out the battery connector on main board, and remove the mainboard (illustration 3.2)



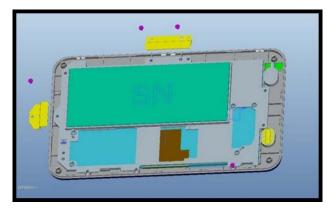
Sample Illustration 3.2

3. Remove the three screws which lock the battery, take off the holder (illustration 3.3)



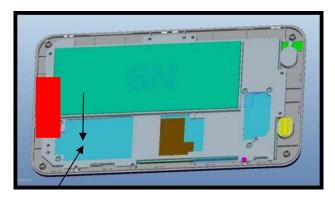






Sample Illustration 3.3

4. When removing the battery, please use plastic pick and take out the battery carefully. Please make sure the battery is smooth and no damage to the battery surface (illustration 3.4)



Sample Illustration 3.4

Using the touch screen

You can use your finger to manipulate icons, buttons, menu items, theonscreen keyboard, and other items on the touch screen.



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Simply tap your finger on the touch screen to act on items on the screen, such as application and settings icons, to type letters and symbols using the onscreen keyboard, or to tap onscreen buttons.

Press & hold

Press & hold an item on the screen until an action occurs. It functions like the right-click on a standard mouse.

Swipe or slide

To swipe or slide, you quickly move your finger across the surface of the screen, without pausing when you first touch it (so you don't drag an item instead). For example, you slide the screen up or down to scroll a list.

Notes on handling and cleaning the touch screen

Always use a soft and clean cloth with the following recommended solventto wipe the touch screen.

- Isopropyl alcohol
- Ethyl alcohol
- Trichlorotriflorothane

Do not wipe the touch screen using the following solvent with dry or hardmaterials which may damage the touch screen.

- Water
- Ketone
- Aromatics

Using the HIL1 for the first time

This section provides basic information about how to start using your HIL 1. It covers below steps followed by the details.

- Connecting the AC adaptor
- Turning on the power
- Initial Setup
- Turning off the power

Connecting the AC adaptor

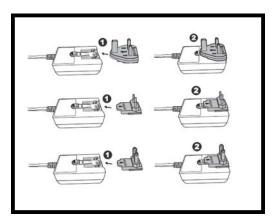
The AC adaptor can automatically adjust to any voltage ranging from 100to 240 volt and to a frequency of either 50 or 60 hertz, enabling you to use this product in almost any country/region. The adaptor converts AC power to DC power and reduces the voltage supplied to this device.

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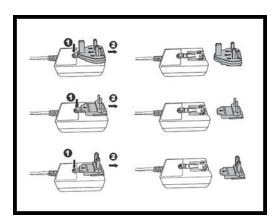




- Choose the proper plug to attach to an AC adaptor. To install the AC adaptor replaceable plug, see the illustrations 3.5.
- To remove the replaceable plugs, see the illustrations 3.6.



(Sample Illustrations 3.5) Installing the plug



(Sample Illustrations 3.6) Removing the plug

- Plug the AC adaptor cord/cable into the DC-IN on the back of the HIL1
- Connect the power plug to a live electrical outlet. The power light, on the right side of the HIL1, glows orange.





Important Notice

- Always use the Ipteq AC adaptor that was included with your HIL1, or use AC adaptors specified by Ipteq to avoid any risk of fire or other damage to the HIL1. Use of an incompatible AC adaptor could cause fire or damage to the HIL1 possibly resulting in seriousinjury. Ipteq assumes no liability for any damage caused by use of an incompatible adaptor.
- Never plug the AC adaptor into a power source that does not correspond to both the voltage and the frequency specified on the regulatory label of the unit. Failure to do so could result in a fire or electric shock, possibly resulting in serious injury.
- Always use or purchase power cables that comply with the legal voltage and frequency specifications and requirements in the country of use. Failure to do so could result in a fire or electric shock, possibly resulting in serious injury.
- When you connect the AC adaptor to the HIL1, always follow the steps in the exact order as described below. Connecting the plug to a live electrical outlet should be the last step. Otherwise, the DC output plug could hold an electrical charge and cause an electrical shock or minor bodily injury when touched. As a general safety precaution, avoid touching any metal parts.
- Never place your HIL1 or AC adaptor on a wooden surface, furniture, or any other surface that could be marred by exposure to heat since the HIL1 base and the AC adaptor's surface increase in temperature during normal use.
- Always place your HIL1 or AC adaptor on a flat and hard surface that is resistant to heat damage.

Turning on the power

Press the Power button to turn on the HIL1. The HIL1's touch panel will be illuminated and the HIL logo will appear on the screen.

Initial Setup

At startup the HIL logo is displayed on the screen followed by an animation that runs during the whole loading process.

At the end of the loading process, the Setup Screen will be the first screen displayed (only when you turn on the power the first time and until you complete the setup procedures).

Setup your HIL1 according to the following steps:

1. Language Setup:Choose your preferred system language





- 2. <u>Network Setup:</u>Connect to a Wi-Fi network.
 - You can skip and turn Wi-Fi on later in the Settings Menu.
- 3. <u>Location Setup:</u>Set your current location using one of the three available option:
 - a. Manual Location
 - b. Automatic Location (needs Wi-Fi)
 - c. Location by Coordinates
- 4. <u>Date&TimeSetup:</u>Set the Date&Time or enable the automatic mode.

NOTE: Please refer to the "Step-by-step Setup" section at the end of this Chapter to get more details

Turning off the power

If you are not going to use your HIL1 for a long time, shut it down.

The HIL1 will bootto the operating system's main screen the next time it is turned on.

- Press the Power button
- The system will ask to confirm the shutdown operation
- Select OK to turn off the HIL1

Important Notice

- Never turn off the power while the update procedure is running.
 Doing so could cause loss of data.
- Do not turn the HIL1 back on immediately wait a short period to avoid any potential damage.





Step-by-Step Setup

Language Setup

This section allows to configure the UI language



(Sample Illustrations 3.7) Language Setup

1	Next section icon	This button can be used to proceed in the setup procedure (go to the
2	Language list	"Network Setup" section) List of all the supported language for the user interface. Press above the
		preferred one in order to change the menu language.

After the selection of the preferred language, the system will ask a confirmation as shown in the illustration 3.8.

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(Sample Illustrations 3.8) Language confirmation

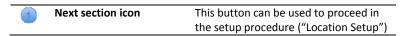
1	ОК	This button can be used to confirm the selection done
2	Cancel	This button can be used to cancel the
		selection done

Network Setup

This section allows to etup the WiFi connection.



(Sample Illustrations 3.9)Network Setup





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2	Enable Wifi	This "switch" can be used to
		enable/disable the WiFi connection
3	Enable Proxy	This "switch" can be used to
		enable/disable the Proxy support
4	List of WiFi network	List of all the available WiFi networks.
		This list is refreshed automatically by
		the system
5	Signal strength	This icon shows the signal strength of
		the related WiFi network. The padlock
		indicates that the network is protected
6	Previous section icon	This button can be used to go back in
		the setup procedure (go to the

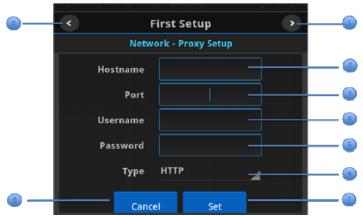
"Language Setup" section)

This module provides the following supports:

- Visible APs only (no hidden SSID support)
- WPA1 (TKIP / AES) encryption
- WPA2 (AES) encryption
- WEP 64/128 encryption

The security settings are automatically detected.

It is possible also to configure a custom Proxy server defining the *type* (HTTP or SOCKS), the *host name*, the *host port*, the optional *username* and *password*. The Proxy *host name* and *port* are the only mandatory parameters to be filled in order to complete the Proxy configuration.



(Sample Illustrations 3.10)Proxy Setup







1	Next section icon	This button can be used to proceed in
		the setup procedure (go to the
		"Location Setup" section)
2	Proxy Hostname	This field can be used to configure the
		proxy host name
3	Proxy Port	This field can be used to configure the
		proxy host name
4	Proxy Username	This field can be used to configure the
		proxy host name
5	Proxy Password	This field can be used to configure the
		proxy host name
6	Proxy type	This drop down menu can be used to
		select the proxy type (HTTP or SOCKS)
7	Set button	This button can be used to confirm the
		proxy configuration
8	Cancel button	This button can be used to cancel the
		proxy setup configuration
9	Previous section icon	This button can be used to go back to
		the "Language Setup" section

Touch above the preferred WiFi network in order to establish a connection; the system will show, if needed, the form to insert the WiFi password. Press then the "Connect" button to confirm the typed password; the system will show step-by-step the status of the connection and will highlight the related connection errors when occur.

1	Connect button	This button can be used to proceed in
		the connection procedure. This button
		becomes touchable only when the
		length of the typed password is correct
		for the encryption type
2	Virtual Keybord	This virtual keyboard can be used to
		type the WiFi password
3	Cancel button	This button can be used to abort the
		connection procedure







(Sample Illustrations 3.11)WiFi password insertion

Location Setup

This module allows to select the current location using one of the three available methods (Manual, Automatic and by Coordinates) and setup the prayer parameters.



(Sample Illustrations 3.12)Prayer & Location setup







1	Next section icon	This button can be proceed in the setup procedure
2	Setup Location	This button can be used to access the Location sub-menu and choose the preferred location method (manual, automatic or by coordinates). The current location is shown in the right part of this item
3	Prayer Calculation	This section shoes the current prayer
	Method	method that is selected automatically by the system
4	Compensation	This button can be used to access the prayer compensation configuration. (Available only when the calculation method is set to AWQAF)
5	Previous section icon	This button can be used to go back to the "Network Setup" section

Touch above the "Setup Location" button in order to complete the definition of you current location using the preferred method

Manual Location

This module allows to choose the current city from a pre-built set of cities included in the Internal DB.

The tree of selection is the following:

Zone Selection -> Country Selection -> City Selection -> DST Selection

Automatic location

This module allows to setup the current city exploitingthe Wi-Fi network information and the Google services data.

The tree of selection can be one of the following:

- 1) Geo data retrieval -> Automatic City Selection (if one of the Internal DB city is in a range of 10 Km) -> DST Selection
- Geo data retrieval -> City Selection (list of 5 nearest cities) -> DST Selection
- Geo data retrieval -> User defined city -> Set Country and Place Name -> Timezone Selection -> DST selection

Location By Coordinates

This module allows to configure the current city starting from the longitude/longitude/height coordinates.

The tree of selection can be one of the following:

1) Coordinates -> Automatic City Selection (if one of the Internal DB city is in a range of 10 Km) -> DST Selection





- 2) Coordinates -> City Selection (list of 5 nearest cities) -> DST Selection
- Coordinates -> User defined city -> Set Country and Place Name >Timezone Selection -> DST selection

The system chooses automatically the calculation method. If the city selected is one of the AWQAF cities in the Internal DB, the AWQAF prayer times are used; otherwise the system relies on the Formula.

In the latter case the Prayer & Location setup appear as shown in the illustration 3.13.



(Sample Illustrations 3.13)Prayer & Location setup-Formula

This button can be used to access the prayer parameters configuration.

(Available only when the calculation method is set to Formula)



(Sample Illustrations 3.14)Prayer Time Parameters

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The *Prayer Time Parameters* section allows to set all the Formula parameters in order to increase the accuracy of the calculation method. This section is available only when the calculation method is set to Formula.

1	Next section icon	This button can be proceed in the
		setup procedure
2	Duhr Safety Factor	This button can be used to set the Duhr
		safety factor (in minutes)
3	Maghrib Safety Factor	This button can be used to set the
		Maghrib safety factor (in minutes)
4	Asr Calculation Method	This button can be used to set the Asr
		Calculation Method (Shafi / Hanafi)
5	Fajr Calculation Method	This button can be used to set the Fajr
		Calculation Method (Twilight Angle /
		Time Before Shurukh)
6	Isha Calculation Method	This button can be used to set the Isha
		Calculation Method (Twilight Angle /
		Time After Maghrib)
7	Previous section icon	This button can be used to go back to
		the "Network Setup" section

Date&Time Setup

This section allows to etup the Date&Time of the HIL 1.



(Sample Illustrations 3.15) Date&Time Setup





1	Finish setup icon	This button can be used to complete
	•	the setup procedure
2	Automatic Mode	This "switch" can be used to
		enable/disable the Automatic
		configuration of date and time. The
		system, if the WiFi is enabled and
		connected to a valid network, retrieves
		the date&time from an internet service
		(NTP server)
3	Date	This section can be used to configure
		the current date (available only when
		the Automatic Mode is disabled)
4	Time	This section can be used to configure
		the current time (available only when
		the Automatic Mode is disabled)
5	Time Zone	This field indicates the Time Zone
		associated to the current location
6	DST	This "switch" can be used to
		enable/disable the DST. System time
		and prayer time can be affected if you
		enable/disable this option
7	Date Format	This section can be used to choose the
		preferred date format
8	Use 24 Hours Format	This "switch" can be used to
_		enable/disable the 24h visualization of
		the time
9	Previous section icon	This button can be used to go back to
		the "Location Setup" section





Chapter 4

Operating "HIL 1"

This chapter provides a general overview of the HIL1 in order to explain how to exploit the functionalities of this smart prayer clock.

Some of the features described in this manual may not function properly if you use an operating system that was not pre-installed by Ipteq.

The subsequent sections cover with specific details the following topic:

- Home Page
- Notification Area
- Digital Clock Area
- Alarms and Alerts
- Query Prayer Page
- Calendar Page
- Adages Page
- Settings Menu





Home Page

The Home screen is your starting point for using all the available features onyour HIL1 and will be the first screen displayed once completed the "Initial Setup".



(Sample Illustrations 4.1)Home Page

1

Power supply icon

This icon indicates to the user when the power supplier is connected/disconnected. For further details please see the "Notification Area" section





2	Battery icon	This icon appears when the charge of the internal battery is under the 10%. For further details please see the "Notification Area" section	
3	Updates icon	This icon indicates to the user when a new firmware is available. For further details please see the "Notification Area" section	
4	Wake Up icon	This icon appears when at least one "Wake Up" alarm is activated. For further details please see the "Notification Area" section	
5	Wi-Fi icon	This icon indicates to the user the WiFi status. For further details please see the "Notification Area" section	
6	Analog Clock	This is the analog clock that shows always the current time. IN this area appear also the graphical countdown for the enjoined prayer and the Nawafel Prohibited period. (see the section "Alert" to get more details)	
7	Digital Clock	This is the area reserved for the digital clock that displays, during the normal operation, the following information using the "fade in"/"fade out" effects (endless slideshow): current time, current date and current location. (see the section "Digital Clock" to get more details)	
8	Prayer Countdown	A countdown for the next prayer (or the prayer exposed in the carousel item)	
9	Prayer Carousel	Horizontal scroller that shows the current prayer (highlighted in blue) and the subsequent prayers with the related numerical countdown. The carousel displays only the active alerts (enjoined and optional prayer). Sliding horizontally this carousel is possible to view the active prayers in the next 24 hours; the carousel automatically roll back to the main	





	position after few seconds of inactivity	
	by the user.	
Carousel Right Arrow	This icon informs that there are other	
	prayer in the right portion of the	
	scroller. This icon disappears when the	
	user reaches the end of the scroller.	
Settings icon	This button can be used to access the	
	Settings Menu	
Mute/Unmute icon	This button can be used to	
	mute/unmute the master volume of	
	the HIL1	
Alerts icon	This button can be used to	
	enable/disable the prayer alerts	
Adages icon	This button can be used to access the	
	Adages Page	
Calendar icon	This button can be used to access the	
	Calendar Page	
Query Prayer icon	This button can be used to access the	
	Query Prayer Page	
Current Prayer	Item of the prayer carousel that	
	indicates the current prayer	
	Settings icon Mute/Unmute icon Alerts icon Adages icon Calendar icon Query Prayer icon	

Notification Area

The Notification Area, located in the top side of the screen, manages and displays all the asynchronous events.

Power supply events

- When the power supply is connected the related icon [power plug] is displayed for few seconds in the notification area (top left corner).
- When the power supply is disconnected the related blinking icon [strikethrough power plug] is displayed until the connection is established again.
- When the battery charge is under the 10% and the power supply is disconnected the related blinking icon [strikethrough power plug + empty battery] is displayed until the connection is established again.

5	Power Plug Icon
1/2	Strikethrough Power Plug Icon





Empty Battery Icon

Network events

- When the Wi-Fi network is disabled the related icon [strikethroughWiFi signal] is displayed in the notification area (top right corner)
- When the Wi-Fi network is enabled and the NTP server is reachable the related icon [WiFi signal] is displayed in the notification area (top right corner).
- When the Wi-Fi network is enabled but the NTP server is not reachable the related blinking icon [WiFi signal covered by an exclamation mark] is displayed until a usable connection is established again

令	WiFi Signal Icon
1	Strikethrough WiFi Signal Icon
够	WiFi Signal + Exclamation mark

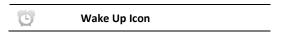
Update events

The system automatically checks for new software updates one time at day. When a new software is available the related icon is shown in the notification area (top right corner)



Wake up status

When at least one wake up alarm is enabled the related icon [a small alarm-clock] is shown in the notification area (top right corner)







Digital Clock Area

The area reserved for the digital clock displays, during the normal operation, the following information using the "fade in"/"fade out" effects (endless slideshow):

- Current time
- Current date
- Current location



(Sample Illustrations 4.2) Digital Clock Slideshow -Normal Operation

During the prayer alerts (enjoined and optional prayer) in this area are displayed alternatively the current time and the current prayer name using the "fade in"/"fade out" effects.



(Sample Illustrations 4.3) Digital Clock Slideshow –Prayer Alert

Alarms & Alerts

The Prayer Clock – HIL 1 is able to manage the following kind of alarms:

- Enjoined Prayer Alarms
- Optional Prayer Alerts

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Wake Up Alerts

Enjoined Prayer Alarms

Prayer is the most important of the five pillars of Islamic religion.

The Enjoined Prayers consist of five prayers performed at specific times of the day:

Fajr: Morning prayer

Duhr/Jumma*: Noon prayer

Asr: Afternoon prayer
Maghrib: Evening prayer
Isha: Night prayer

Fajr Alert

The Fajr Alert consists of the following steps:

Before the Event

- Display: a numerical countdown to the Fajr is displayed in the main carousel
- Audio: none

At start of the graphical countdown (set by the user):

- Display: a numerical countdown to the Fajr is displayed in the main carousel
- Display: a graphical countdown to the Fajr (white arc) is displayed in the Analog Clock
- Audio: none

At occurrence:

- Display: prayer name + prayer time flashing for 3 seconds
- Audio: 1 beep

Event in progress:

- Display: Athan text synchronized with the audio
- Audio: Athan for Fajr

After Athan completion:

- Display: Duaa text
- Audio: Duaa

After Duaa completion:

• Display: prayer name + prayer time for 5 minutes



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^{*}Noon prayers on Friday is called Jumma



Audio: none

Duhr Alert

The Duhr Alert consists of the following steps:

Before the Event

- Display: a numerical countdown to the Duhr is displayed in the main carousel
- Audio: none

At start of the graphical countdown (set by the user):

- Display: a numerical countdown to the Duhr is displayed in the main carousel
- Display: a graphical countdown to the Duhr (white arc) is displayed in the Analog Clock
- Audio: none

At occurrence:

- Display: prayer name + prayer time flashing for 3 seconds
- Audio: 1 beep

Event in progress:

- Display: Athan text synchronized with the audio
- Audio: Athan

After Athan completion:

- Display: Duaa text
- Audio: Duaa

After Duaa completion:

- Display: prayer name + prayer time for 5 minutes
- Audio: none

Asr Alert

The Asr Alert consists of the following steps:

Before the Event

- Display: a numerical countdown to the Asr is displayed in the main carousel
- Audio: none

At start of the graphical countdown (set by the user):

 Display: a numerical countdown to the Asr is displayed in the main carousel

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Audio: none

At occurrence:

• Display: prayer name + prayer time flashing for 3 seconds

Audio: 1 beep

Event in progress:

Display: Athan text synchronized with the audio

Audio: Athan After Athan completion:

Display: Duaa text

Audio: Duaa

After Duaa completion:

Display: prayer name + prayer time for 5 minutes

Audio: none

Maghrib Alert

The Maghrib Alert consists of the following steps:

Before the Event

Display: a numerical countdown to the Maghrib is displayed in the main carousel $% \left(1\right) =\left(1\right) \left(1\right) \left$

Audio: none

At start of the graphical countdown (set by the user):

- Display: a numerical countdown to the Maghrib is displayed in the main carousel
- Display: a graphical countdown to the Maghrib (white arc) is displayed in the Analog Clock
- Audio: none

At occurrence:

Display: prayer name + prayer time flashing for 3 seconds

Audio: 1 beep

Event in progress:

Display: Athan text synchronized with the audio

Audio: AthanAfter Athan completion:

Display: Duaa text



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Audio: Duaa

After Duaa completion:

• Display: prayer name + prayer time for 5 minutes

Audio: none

Isha Alert

The Isha Alert consists of the following steps:

Before the Event

- Display: a numerical countdown to the Isha is displayed in the main carousel
- Audio: none

At start of the graphical countdown (set by the user):

- Display: a numerical countdown to the Isha is displayed in the main carousel
- Display: a graphical countdown to the Isha (white arc) is displayed in the Analog Clock
- Audio: none

At occurrence:

- Display: prayer name + prayer time flashing for 3 seconds
- Audio: 1 beep

Event in progress:

- Display: Athan text synchronized with the audio
- Audio: Athan

After Athan completion:

- Display: Duaa text
- Audio: Duaa

After Duaa completion:

- Display: prayer name + prayer time for 5 minutes
- Audio: none

Optional Prayer Alerts

In addition to performing the stated enjoined prayers some Muslims are used to waking up at night to perform voluntary prayers before FAJR prayer. Such voluntary prayers are known as **TAHAJUD**.

During the period of mandatory fasting or any other voluntary fasting, whoever is intending to fast should abstain from taking anything by mouth and refrain

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from other specified desires immediately at occurrence of FAJR. This moment of abstinence is named **EMSAK** in Arabic.

At times some Muslims do not perform FAJR prayer at the fixed time for different reasons but they endeavor to perform FAJR prayer before sunrise (Shurukh) otherwise FAJR prayer will be overdue. The alert to perform FAJR prayer after its stated time is named **AL-GOUDWA**

'NAWAFEL' is an Arabic term, which means voluntary or doing more than duty requires ('Supererogatory'). In the context of Prayers, it is used to refer to Voluntary Prayers or Nawafel Prayers.

The rules of prayer, in the Islamic religion, prohibit believers to perform NAWAFEL prayers for a certain time period during sunrise (**SHURUKH**), which is the period of time, between 15 to 30 minutes from Shurukh, until the Sun is up a certain distance, above the horizon. This period is referred to as **NAWAFEL PROHIBITION PERIOD**.

Tahajud Alert

The Tahajud Alert consists of the following steps:

At occurrence:

Display: prayer name + prayer time flashing for 3 seconds

Audio: 5 beep

Event in progress:

Display: Tahajud Verse text

Audio: Tahajud Verse

• Repeat: Every minutes until the lapse of 5 minutes or user reset

Al Goudwa Alert

The Al Goudwa Alert consists of the following steps:

At occurrence:

Display: prayer name + prayer time flashing for 3 seconds

Audio: 5 beep

Event in progress:

Display: Al Goudwa Verse text

Audio: Al Goudwa Verse

Repeat: Every minutes until the lapse of 5 minutes or user reset

Emsak Alert

The Emsak Alert consists of the following steps:

At occurrence:

• Display: prayer name + prayer time flashing for 3 seconds





Audio: 3 beep

Event in progress:

Display: Emsak Verse text

Audio: Emsak Verse

Shurukh Alert and Nawafel Resumption

The Shurukh and Nawafel Resumption Alert consist of the following steps:

At occurrence of Shurukh:

Display: Shurukh + prayer time flashing for 3 seconds

Display: a graphical countdown to the Nawafel Resumption (red arc) is displayed in the Analog Clock

Audio: 3 beep

30 seconds after Shurukh:

 Display: Nawafel Prohibited text + countdown to Nawafel Resumption

Audio: none

At Nawafel Resumption:

Display: Nawafel Resumption text + time flashing

Audio: 3 beep + Nawafel Resumption Verse

After Verse completion:

Display: Nawafel Resumption + time for 5 minutes

Audio: none

Wake Up Alerts

The HIL 1 allows to set customized Wake up alarms (no more than 10 alarms) providing the option to configure the alert tone, the alert type (single shot, daily, weekly, ...), the snooze repetition and the snooze interval.

In the Settings menu you can choose whether enable/disable the "WakeUp sound" during the prayer event.

When this option is disabled, the system prompt a warning message to informthat if an overlap of eventsoccurs (Prayer Alert and Wakeup Alert) the Wakeup audio won't be reproduced.

Furthermore the system displays an icon in the notification area when at least one alarm is enabled and in the bottom part of the screen a notification during the occurrence of the WakeUp event with the possibility to "snooze" or "stop" the alarm.

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(Sample Illustrations 4.4)Wake Up Alert

Query Prayer Page

This section allows to have a quick and clear overview of the prayers of the day (enjoined and optional).

The list of prayers of the day (enjoined and optional) with the related time and status (alert enabled/disabled) are shown as a vertical scroller and the current prayer is highlighted.

The navigation arrows allows to consult the prayer time for each day of the year (previous and next days)

1	Previous day icon	This button can be used to switch the
		current view to the previous day of the
		year
2	Current date	The prayer times exposed in the list are
		related to this specific date
3	Next day icon	This button can be used to switch the
		current view to the next day of the year
4	Disabled alert	This icon informs that the alert for that
		specific prayer is disabled
5	Active Alert	This icon informs that the alert for that
		specific prayer is enabled
6	Prayer time	These labels indicates the prayer time for
		each prayer of the day
7	Prayer list	List of all the prayer of the day (enjoined
		and optional). This list is a vertical scroller



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(Sample Illustrations 4.5) Query Prayer Page

Calendar Page

This section allows to have a quick overview of the calendar and the related prayer times for each day of the year.

The HIL 1 calendar supports:

- The Gregorian Calendar Format
- The Hijri Calendar Format
- The possibility to define a custom offset for the Hijri calendar (+/- 2 days) in order to align the calendar to the lunar phases
- The possibility to consult the prayer times for each day of the year

	Previous month icon	This button can be used to switch the
1		current view to the previous month of
_		the year





2	Current month	This label shows the name of the current month
3	Next month icon	This button can be used to switch the current view to the next month of the year
4	Current day	The current day is highlighted as shown in the following figure



(Sample Illustrations 4.6) Calendar Page

Adages Page

Unique religious adages are displayed on the display unit for every day of the lunar year in one of the selected languages (Arabic, Urdu , French or English).





There shall be a total number of three hundred and fifty four adages, corresponding to each day of the lunar year.

The Adage bitmap will contain the text "Adage of the day", the Adage itself and the Adage.



(Sample Illustrations 4.6) Adages Page



Adages of the day

The adages to be displayed for a particular day may contain:

- Two unique single page adages
- Single adage spanning two pages
- Single adage spanning three pages

In each of the above situations, adages are displayed alternatively page by page in a fade in fade out fashion. In the case of single adages, two different adages are displayed for a particular day. While for two or three page adage, a single adage is displayed with each page displayed alternatively. The dots at the bottom of the adage indicate that the adage is continued on the next page and also the subsequent page of an adage does not contain the text "Adage of the Day".



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Settings Menu

The Settings section allows to configure all the relevant parameters that will be used to calculate the prayer times day by day and customize the HIL $\bf 1$ experience.



(Sample Illustrations 4.7)Settings Menu



Alert & Audio

Settings Menu to configure Alerts, Prayer Countdown, Athan Call audio, Volume,



		Wake Up and Hour Chimes	
2	Prayer & Location	Settings Menu to configure the current	
		Location and the Prayer Parameters	
3	System Settings	Setting Menu to configure the Date&Time,	
		Calendar Type, Themes, Brightness, WiFi	
		Network, Language and the Access Code	
4	Device section	Settings Menu to update the HIL 1	
		firmware, to restore the factory settings	
		and restore the factory firmware	
5	Info section	Setting Menu to get information about the	
		firmware version, manufacturer, websites,	
		contacts, copyright and battery status. IN	
		this section there's also a smart Help.	

Alerts&Audio

Alerts

Tahajud

Allows to enable/disable Tahajud Alert and its offset from Fajr

Emsak

Allows to enable/disable Emsak Alert

Al Goudwa

Allowsto enable/disable Al Goudwa Alert and its offset from Shurukh

<u>Shurukh</u>

Allows to enable/disable Shurukh Alert

Nawafel Resumption

Allows to enable/disable Nawafel Resumption Alert and its offset. The Nawafel Resumption section is available only whether the Shurukh is enabled

Prayer Countdown

<u>Fajr</u>

Allowsto set graphical countdown for Fajr prayer.

Duhr

Allows to set graphical countdown for Duhr prayer.

Asr

Allows to set graphical countdown for Asr prayer.

Maghrib

Allows to set graphical countdown for Maghrib prayer.

<u>Isha</u>

Allows to set graphical countdown for Maghrib prayer.

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Athan Call

Fajr

Allows to select the preferred Athan audio for the Fajr Alert

<u>Duhr</u>

Allows to select the preferred Athan audio for the Duhr Alert

Asr

Allows to select the preferred Athan audio for the Asr Alert

<u>Maghrib</u>

Allows to select the preferred Athan audio for the Maghrib Alert

<u>Isha</u>

Allows to select the preferred Athan audio for the Isha Alert

Wake Up

Enable Wake Up Alert During Prayer Time

Allows to choose whether enable/disable the "WakeUp sound" during the prayer event.If disabled, the system will prompt a warning message to inform that if an overlap of events occurs (Prayer Alert and Wakeup Alert) the Wakeup audio won't be reproduced.

List Of Alarms

List of the wake up alarms configured by the user. A single WakeUp alarm can be edited or deleted by pressing above it and following the instruction on the screen

Create New Alarm

Allows to create custom Wake up alert

Set name

Set a custom name for the wake up alarm

Set Time

Set Wake Up time

Alarm Repeat

Set repeat type (single, daily, weekly, ...)

Alarm Tone

Set Wake Up tone

Snooze Repetition

Set snooze repetition of the alarms

Snooze Interval

Set the snooze intervals in terms of minutes





Hour Chime

Enable

Allows to enable/disable the Hour Chime

Set Tone

Allows to select the preferred tone for the Hour Chimes

Volume

Master Volume

Allows the user to set the Master Volume of the HIL 1. This volume is the same the user can control using the physical volume buttons.

Athan Volume

Allows the user to set the Athan Volume. The Athan volume is proportional to the Master Volume value

Alerts Volume

Allows to set the Alerts Volume. The Alerts volume is proportional to the Master Volume value

Wake Up Volume

Allows to set the Wake Up Volume. The Wake Up volume is proportional to the Master Volume value

Prayer & Location

Location Setup

Allows the user to select the current location using one of the three available methods (Manual, Automatic and by Coordinates)

Manual Location

Allows the user to select the current city from a pre-built set of cities included in the Internal DB.

The tree of selection is the following:

Zone Selection -> Country Selection -> City Selection -> DST Selection

Automatic location

Allows the user to configure the current city retrieving the Wi-Fi network information and the Google services data.

The tree of selection can be one of the following:

- Geo data retrieval -> Automatic City Selection (if one of the Internal DB city is in a range of 10 Km) -> DST Selection
- Geo data retrieval -> City Selection (list of 5 nearest cities) -> DST Selection
- Geo data retrieval -> User defined city -> Set Country and Place Name ->Timezone Selection -> DST selection

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Location By Coordinates

Allowsto retrieve the current city starting from the longitude/longitude/height coordinates.

The tree of selection can be one of the following:

- Coordinates -> Automatic City Selection (if one of the Internal DB city is in a range of 10 Km) -> DST Selection
- 2) Coordinates -> City Selection (list of 5 nearest cities) -> DST Selection
- 3) Coordinates -> User defined city -> Set Country and Place Name -> Timezone Selection -> DST selection

Prayer Calculation Method

The system chooses automatically the calculation method. If the city selected is one of the AWQAF cities in the Internal DB, the AWQAF prayer times are used; otherwise the system relies on the Formula.

Prayer Times Parameters

Allows to set all the Formula parameters in order to increase the accuracy of the calculation method. This section is available only when the calculation method is set to Formula.

Duhr Safety Factor

Allows to set the Duhr safety factor

ASR Calculation Method

Allows to set the ASR calculation method

Maghrib Safety Factor

Allows to set the Maghrib safety factor

Isha Calculation Method

Allows to set the Isha calculation method

Fair Calculation Method

Allows to set the Fair calculation method

Compensation

Allows to define a custom offset in the prayer times when the AWQAF data are used by the system. This section is available only when the calculation method is set to AWQAF

System Settings

Date & Time

Automatic Mode

Allows to select the preferred Date&Time setup method (auto/manual)

Date

Allows to set the current Date only in the Manual Mode

Time

Allows to set the current Time only in the Manual Mode

Time Zone





Displays the current time zone retrieved by the current location

DST

Allows to enable/disable the DST

Date Format

Allows to select the preferred date format

Use 24 Hour Format

Allows to select the preferred time format (12h/24h)

Calendar Type

Set Calendar Type

Allows to select the preferred calendar type (Gregorian or Hijri)

Hijri Offset

Allows to set a custom Hijri offset in order to align the calendar to the lunar phases

Themes

Allows to select the preferred Theme (Dark or Light)

Brightness

Automatic Brightness

Allows to enable/disable the automatic brightness control

Brightness Slider

Allowsto set the preferred brightness value

Network

This section allows to etup the WiFi connection.

This module provides the following supports:

- Visible APs only (no hidden SSID support)
- WPA1 (TKIP / AES) encryption
- WPA2 (AES) encryption
- WEP 64/128 encryption

The security settings are automatically detected.

It is possible also to configure a custom Proxy server defining the *type* (HTTP or SOCKS), the *host name*, the *host port*, the optional *username* and *password*.

Enable WiFi

Allows to enable/disable the WiFi module

NOTE: When the WiFi is enabled and the "Automatic Mode" for the Date&Time setup is selected. If in this condition the user tries to disable

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the WiFi a pop-up informs him that disabling the WiFi also the Automatic Mode will be disabled.

List of Networks

Allows to view the list of the available networks (with all the related details) and connect the HIL 1, after typing the appropriate password, to the preferred network.

Proxy Setup

Alows to set custom proxy configuration (type, host, port, username and password)

Language

Allows to select the language for the UI among English, French, Arabic and Urdu.

Access Code

Allows to set a custom pass code to access the Settings Menu. If the pass codeis no longer retrievable it is possible to reset the HIL 1 Settings by pressing and holding the Settings icon for 20 seconds in the main control bar; after the confirmation the factory settings will be restored.

Enable

Allows to enable/disable the pass code feature

Set Code

Allows to set a new pass code

Device

Software Updates

Checks for a new software and if available update the system to the latest version.

Internet Update

This module contacts an IPTEQ's Server to understand if a new software/application is available. After the user's confirmation the new software is downloaded and installed.

SDcard Update

This module checks if a new software/application is available in the SDcard. After the user's confirmation the new software is installed.

Restore Factory Settings

This module restores all the factory settings parameter removing the configuration previously set by the user. The system asks a confirmation before proceed.





Restore Factory Software

This module restores the original factory firmware; the device will appear as just bought (in terms of software). The system asks a confirmation before proceed.

Info

Product Information

Software Version, Web Site, Contacts and Copyright

Help

Smart "Help" menu to explain the basic features of the device

Battery Status

Indication of the charge level of the internal battery





Chapter 5

Firmware Upgrade& Reset

The Firmware is the software that internally controls the HIL 1 (clock, alarms, user interface, configuration, etc...). You may need to upgrade your firmware to improve your experience with new features or to fix some issues.

Software Updates

The HIL 1 provides you with the function to upgrade the whole firmware all only some specific modules in order to improve your experience.

To perform the software update, please follow the steps below:

- 1. Tap Settings -> Device -> Software Updates
- 2. Choose one of the two available options:
 - a. Internet Update
 - b. SDcard Update
- 3. Follow the on screen instruction to complete the installation

<u>Note:</u> To update the firmware using the SD card please visit the website <u>www.ipteq.com</u> to get the last firmware and then:

- 1. Copy the new firmware in the SD card
- 2. Connect the SD card into the HIL 1
- Start the upgrade procedure from the SD card and follow the onscreen instructions.

Make sure that the power adaptor of the HIL1 is always connected and do not remove the SD card during the software upgrade. A power cut or removing the SD card during the update process can corrupt the system and your product may not work anymore.





Before performing the updating procedure, please make sure that you have an available Internet connection or that an SD card is connected to your device

Note:

- TheHIL1 will automatically reboot several times to finish the installation.
- Do not turn it off during the installation process.
- TheHIL1 will return to Home Menu after the software installation is completed.

Factory Settings Reset

The HIL 1 provides you with the function to restore the factory settings. To perform the factory settings reset, please follow the steps below:

- 1. Tap Settings -> Device -> Restore Factory Settings
- 2. The Settings Reset will be done.

Please note that the following data will be erased:

System settings and application settings

Data in the removable media will not be erased.

Factory Software Reset

The HIL 1 provides you with the function to reset it and restore the original factory software.

To perform the factory reset, please follow the steps below:

- 1. Tap Settings -> Device -> Restore Factory Software
- 2. The factory reset will be done and the HIL1 will appear as just bought (in terms of software)

Please note that the following data will be erased:

- System settings and application settings
- Internal storage files
- Any software update executed by the user

Data in the removable media will not be erased.

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Chapter 6

Troubleshooting

Ipteq have designed this "smart prayer clock" for durability, however, shouldproblems occur you are able to use the procedures detailed in this chapter to help determine the cause.

All users should become familiar with this chapter as knowing what might go wrong can help prevent problems from occurring in the first place.

Problem solving process

Resolving problems will be much easier if you observe the followingguidelines:

- Stop immediately when you recognize a problem. Taking further action may result in data loss or damage or you may destroy valuable information, which is helpful in resolving this problem.
- Observe what is happening write down what the system is doing and what actions you performed immediately before the problem occurred. Make a screenshot of the current display.

Please also be aware that the questions and procedures described in this chapter are meant only as a guide, they are not definitive problem solving techniques. In reality many problems can be solved simply, but a few may require help from Ipteq Support - if you find you need to consult others, be prepared to describe the problem in as much detail as possible.

Preliminary checklist

You should always consider the simplest solution first - the items detailed in this checklist shall provide easy fixes for issues which appear to be serious problems.



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- Make sure you turn on all peripheral devices before you turn on the HII 1
- Before you attach an external device you should first turn the HIL1 off, then when you turn the HIL1 back on again it will recognize the new device.
- Make sure all optional accessories are configured properly in the
- HIL1's setup program and that all required driver software has been loaded (please refer to the documentation included with the optional accessories for further information on its installation and configuration).
- Check all cables to ensure they are correctly and firmly attached to the HIL1 - loose cables can cause signal errors.
- Inspect all connecting cables for loose wires and all connectors forloose pins.

Always try to make detailed notes of your observations and keep them in apermanent error log - this will help you to describe your problems to Ipteq Support. In addition, if a problem recurs, the log you have made will help to identify the problem faster.

Hardware and system checklist

This section discusses problems caused by your HIL1's hardware orattached peripherals. Basic problems may occur in the following areas:

- Internal display panel
- Memory Media Card
- Wireless LAN
- Sound system

Internal display panel

Apparent HIL1's display panel problems may be related to the HIL1'ssetup and configuration.

comparation.		
Problem	Procedure	
Problems above	You should initially refer to the	
remain unresolved	documentationsupplied to you with the	
or other problems	software to understand the cause of the	
occur	problems.	
	If you are still unable to resolve the problem,	
	contact your reseller, dealer or service	





provider.	

Memory Card

Problem	Procedure
Memory media card	Remove the memory media card from the
error occurs	HIL1 and then reinsert it in order to ensure it is
	firmly connected.
	If the problem persists, then you should refer
	to the documentation supplied with your
	memory media card for further information.

Sound system

In addition to the information in this section, please also refer to the documentation supplied with your audio device.

Problem	Procedure
No sound is heard	Adjust the volume.
	Check the software volume settings.
	Please check to see if system sound is muted.
	Check to make sure the headphone
	connection is secure

Wireless LAN

If the following procedures do not restore LAN access, consult your LAN administrator.

Problem	Procedure	
Cannot access	Make sure the HIL1's Wireless communication	
Wireless LAN	function is on.	
	If problems persist, contact your LAN	
	administrator.	

Ipteq Support

If you require any additional help using your HIL1 or if you are havingproblems operating the HIL1, you may need to contact lpteq for additional technical assistance.





Before you call

Some problems you experience may be related to software or theoperating system so it is important that you investigate other sources of assistance first. Before contacting Ipteq, try the following:

- Review troubleshooting sections in the documentation supplied with your software and/or peripheral devices.
- If a problem occurs when you are running software applications, consult the software documentation for troubleshooting suggestions and consider calling the software company's technical support department for assistance.
- Consult the reseller or dealer from where you purchased your HIL1 and/or software - they are your best resource for current informationand support.

Ipteq technical support

If you are still unable to solve the problem and suspect that it is hardware related, read the enclosed warranty booklet or visit www.ipteq.com on the Internet.





Chapter 7

Specifications

This chapter summarizes the HIL1's technical specifications.

Basic Specification

Chipset	Chipset	RK2918
	Architecture	ARM Cortex-A8
	Frequency	1GHz
System OS	System OS	Android 2.3
OSD	Default language	English
	Multi-Language	English/French/Arabic/Urdu
RAM	Capacity	512MB
NAND Flash	Capacity	4GB
LCD Panel	LCD Size	7" Digital
	Resolution	800*480
	BackLighting	TFT / LED
Touch Panel	Touch	Capacitive
WiFi Module	Standard	802.11 b/g
Bluetooth Module	Standard	BT 2.1
USB	OTG	×1
Sensor	Light-Sensor	×1





Speaker	Speaker 8Ω/0.5W * 2 pcs, stereo	
Connector Slot	MicroSD Card, Micro USB, DC IN, Earphone Jack	
Keys	Physical buttons	Power, Vol+, Vol-, Reset
	Touch key	Home, Back, Menu
Power	AC Adapter	5V/2A
Others	RTC	Coin battery
Applications	Clock	Yes
	Alarm clock	Yes
Audio	Format	OGG Vorbis
Video	Decoder	Theora Vorbis support
	Format	OGG
Picture	Format	JPEG, BMP
	Resolution	Up to 8000×8000
Standard	AC Adapter, User Manual / Warranty Card	
Accessories		
	Other	Clean cloth
Certifications	CE, RoHS, SASO, GOST, ETL	

Physical Dimensions

Size	200 (h) \times 120 (w) \times 60 (d) millimeters (not including parts that extend beyond the main body).
Weight	400g

Environmental Requirements

Condition	Ambient Temperature	Relative Humidity
Operating	5°C (41°F) to 35°C	20% to 90%
	(95°F)	(noncondensing)
Non-Operating	-20°C (-4°F) to 60°C	10% to 95%
	(140°F)	(noncondensing)
Wet-bulb	29°C maximum	





temperature	
Condition	Altitude (from sea level)
Operating	0 to 6,561 feet (2,000 meters)
Non-Operating	0 to 40,000 feet (12,192
	meters)

Power Requirements

AC Adaptor:	100-240V AC	
	50 or 60 Hz (cycles per second)	
HIL 1	5V DC	

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Chapter 8

Information For Wireless Devices

Wireless LAN interoperability

The Wireless LAN is compatible with other LAN systems Direct SequenceSpread Spectrum (DSSS) /Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision b/g/n(HT20)), as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (Wi-Fi*) certification as defined by the Wi-Fi Alliance*.

The Wi-Fi CERTIFIED™ logo is a certification mark of the Wi-Fi Alliance®.

Bluetooth wireless technology interoperability

Bluetooth™ Cards are designed to be interoperable with Bluetooth wirelesstechnology that is based on Frequency Hopping Spread Spectrum (FHSS) radio technology, and is compliant to:

- Bluetooth Specification (depending on the model you purchased), asdefined and approved by the Bluetooth Special Interest Group.
- Logo certification with Bluetooth wireless technology as defined by the Bluetooth Special interest Group.

Please note that it is not possible to confirm the operation of all functions of all Bluetooth devices that are available. In view of this it may be noted that some functions associated with a specific device might not operate properly.

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CAUTION about Wireless Devices

The wireless devices have not completed verification of connection and operation with all devices which are using the Wireless LAN or Bluetooth radio technology.

Bluetooth and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off either oneof your Bluetooth or Wireless LAN.

Wireless Devices and your health

Wireless products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by wireless products however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because wireless products operate within the guidelines found in radio frequency safety standards and recommendations, Ipteq believes Wireless products is safe for use by consumers. These standards andrecommendations reflect the consensus of the scientific community andresult from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of wireless products may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using the wireless products on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use the wireless device prior to turning on the equipment.

Radio Regulatory Information

The wireless device must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. This product complies with the following radio frequency and safety standards.





Europe

Restrictions for Use of 2400.0-2483.5MHz Frequencies in Europe

France:	Outdoor use limited to 10mW e.i.r.p. within the band 2454-2483.5MHz	Military Radiolocation use. Refarming of the 2.4GHz band has been ongoing in recent years toallow current relaxed regulation. Fullimplementation planned in 2012.
Italy:	-	For private use, a generalauthorization is required if WAS/RLAN's are used outside ownpremises. For public use, a generalauthorization is required.
Luxembourg:	Implemented	General authorization required for network and service supply.
Norway:	Implemented	This subsection does not apply forthe geographical area within aradius of 20 km from the centre of Ny-Alesund.
Russian Federation:	-	Only for indoor applications.

To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4GHz channel limitations applies for outdoor usage. The user should use the wireless LAN utility to check the current channel of operation. If operation is occurring outside of the allowable frequencies for outdoor use, as listed above, the user must contact the applicable national spectrum regulator to request a license foroutdoor operation.

Canada - Industry Canada (IC)

This device complies with RSS 210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

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USA-Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Refer to the FCC information section for the detailed information.

Caution: Exposure to Radio Frequency Radiation

The radiated output power of the wireless device is far below the FCC radiofrequency exposure limits. Nevertheless, the wireless device shall be used in such a manner that the potential for human contact during normal operation is minimized.

The installer of this radio equipment must ensure that the antenna is located or pointed in such a way that it does not emit RF field in excess of

Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca

