



**AIRCREW OPERATING INSTRUCTIONS
FOR THE
INDIGO ONE SATELLITE TRACKING AND COMMUNICATION
SYSTEM**



Display Firmware Version: 01R1-2-9
Mainboard Firmware Version: 01R1-2-9



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QUICK REFERENCE

Use the following information as a quick guide to the functions of the Indigo One unit:

Alert Mode

- Depress MNU and SND simultaneously to put the Indigo One into “Alert Mode”.
- Depress MNU and SND simultaneously, to take the Indigo One out of “Alert Mode”.

Send a Message

- Press the MSG button
- Use the selector to navigate to your selected message (use “TEXT MESSAGE” to enter custom text only)
- Add your custom text by rotating the selector through the cycle of characters to the required one, then clicking in to move to the next space and repeating the process.
- Press the SND button to send the message
- The message will move from the “OUT” menu to “SENT” once the message has been transmitted

Correct your Message

- To make a correction to text you have already entered, click the Selector and hold it in, until the character is deleted, and proceed with the Selector to continue with your custom message.

Read a New Message

- When a new message arrives, Use the selector to navigate to “Message Status”. Click the selector in to navigate to the “IN<1>”
Press the SND button to read the message

Read a Previous Message

- Press the MNU button
- Use the selector to navigate to “Message Status”. Click the selector in.
- Navigate to “IN” by clicking the selector in.
- Press the SND button
- Navigate by scrolling the Selector to the left or right to view the message/s in the Inbox.

Change the Backlighting Level

- Press the MNU button
- Navigate to the “Configuration” menu. Click the selector in, this will allow you to navigate between the “INTERNAL” and “EXTERNAL” Backlight by rotating the selector.
- If you are on the “INTERNAL”, click in the selector TWO times, in order to adjust the lighting level by rotating the selector.



INTRODUCTION

The Indigo One Satellite Tracking and Communication System has many features and benefits for the aircrew operating an aircraft fitted with the unit. This document will assist you to understand those functions, how to access them, and how to get the best out of the Indigo One fitted to your aircraft.

Please make sure that the firmware in your Indigo One unit corresponds to this document. If it doesn't, please obtain the user manual for the firmware version running in your system.

OVERVIEW

The Indigo One unit is extremely simple to operate, and the following illustration will introduce you to the various parts of the unit:



Backlit Display

All information will be displayed on the blue backlit LCD screen of the Indigo One.

Function Buttons

The four function buttons are used to access the Indigo One function menu, and perform various actions. Their function is mostly dependent on the context of the backlit display, but the following are the standard functions:

- MNU: Jump to the top of the menu, and use the selector knob to navigate between the "OPERATION", "CONFIGURATION" and "SYSTEM INFORMATION" menus
- PLT: Shortcut to the "Pilot PIN" function
- MSG: Shortcut to the "Send Message" function (this shortcut does not work in the Configuration menu)
- SND: No standard function

Selector Knob

The selector knob is the principle tool of navigation and selection for the functions available in the Indigo One. It rotates both left and right, and clicks in to "select" where applicable.

USB Port

The USB Port is used to download the recorded information in the Indigo One, as well as to upgrade the configuration and firmware of the unit from time to time (Please note,



when performing firmware upgrades and or downloading recorded information, the USB stick must be in FAT16 format).

General Navigation

Navigation through the various menu structures of the Indigo One is done using the Selector Knob to locate the menu, and clicking it in to progress down the menu structure. To go back in a menu, or to cancel an option, press the MNU button.

ALERT FUNCTION

The Indigo One has an Alert function that is the first function that you should be aware of. When activated, it has the following function:

- sends a priority "ALERT" message via the satellite
- accelerates the frequency of position messages to report every 30 seconds
- notifies selected people by email and/or SMS to their mobile phone (this must be setup in the IndigoTrack software under "Notification Maintenance")
- Notifies the "Alert Standby" team in the IndigoSat operations room

In order to activate this function, push the "MNU" and "SND" buttons simultaneously.

When in "Alert" mode, the Indigo One display will flash the message "A L E R T".

In order to deactivate this function, push the "MNU" and "SND" buttons simultaneously

Once the "Alert" mode has been cancelled, tracking will revert back to the last configured interval set in the system.



INDIGO ONE BASIC FUNCTIONS

The Indigo One unit operates on a menu-based system, branching out from three main menu items; Operation, Configuration and System Information. You can navigate between these items by rotating the Selector. When not in use, the Indigo One will revert to the “Message Status” screen.

Navigation

Basic navigation through the menu structures and options of the Indigo One unit is done using the Selector Knob, occasionally in combination with the four function buttons. Each of the functions detailed in this document will describe the navigation required to reach the function. To go back in a menu, or to cancel an option, press the MNU button.

Power On Diagnostics

At Power On, the Indigo One will perform several self-diagnostic tests, which typically take a couple of seconds. Should any of these tests fail, a notification may be displayed on the screen as follows:

	A completely blank, dark screen is an indication of a power connection snag with the unit. Please report this to your avionics maintenance engineer immediately.
FATAL ERROR	The unit is unable to detect the antenna. You should immediately notify your avionics maintenance engineer of this event.

After normal startup the Indigo One will either request a Pilot PIN Identification (if configured), or proceed automatically to the “Message Status” display in the Operations Menu.

Pilot Identification

If the Indigo One has been configured to request Pilot PIN Identification at power on, a message requesting identification will be displayed as soon as the self-diagnostic tests are completed.

Please enter your identification information (as required by the owner/operator) and click SND to complete. There is no validation of this information, and its omission has no effect on the functioning of the Indigo One unit. Should you not enter the identification within 1 minute; the system will revert to the Message Status display in the Operations Menu.

You can send a manual Pilot Identification message by pressing the PLT button at any time during the flight, and entering the information as described above, provided “Pilot PIN Request” has been enabled in IndigoTrack.



SYSTEM INFORMATION DISPLAY

Navigation

Press the MNU function button, rotate the Selector Knob until "SYSTEM INFORMATION" is displayed, and click the Select Knob. You can then rotate through the display screens detailed below.

Functions

All screens under the Operation menu item are advisory in nature only, and no alteration can be made to the information displayed. The screens available under the System Information menu are:

DSPL VER MAIN VER	DSPL VER shows the unit's Display Version MAIN VER shows the unit's main board firmware Version
MODEM VER USB VER	MODEM VER shows the unit's modem version USB VER shows the unit's USB version
AIRCRAFT DMR ISN	AIRCRAFT shows the aircraft registration DMR ISN shows the serial number of the Internal Modem
SERIAL NUMBER	SERIAL NUMBER shows the serial number of the Indigo One Unit



OPERATION DISPLAY

Navigation

Press the MNU function button, rotate the Selector Knob until "OPERATION" is displayed, and click the Select Knob. You can then rotate through the display screens detailed below.

Note that the Indigo One unit will automatically switch to the Message Status as a screensaver, after 5 minutes of no activity.

Functions

All screens under the Operation menu item are advisory in nature only, and no alteration can be made to the information displayed (unless the operator has configured the unit to allow the Pilot to enable/disable and change the tracking intervals). The screens available under the operation menu are:

MESSAGE STATUS	Shows the number of messages in the unit's Inbox (IN:<#>), Outbox (OUT:#) and Sent Items (SENT:#) queues.
SAT TRK INT	SAT shows the current satellite region the antenna is connected to (POR, AOR-E, AOR-W, IOR or PACC) TRK INT shows the units configured tracking interval in minutes D2 indicates that the unit has obtained Satellite Lock. This screen also shows the quality of signal from the Inmarsat satellite constellation, and the number of GPS satellites available
LATITUDE LONGITUDE	Shows the current Latitude X XX XX N Shows the current Longitude X XX XX E
SUPPLY VOLTAGE KEEP ALIVE	Shows the current voltage of the avionics and aircraft battery inputs
GPS TIME GPS DATE	Shows the current UTC date and time as reported by GPS
FLIGHT INFO GND TRACK	Shows the current GPS speed, altitude and track of the aircraft.



MESSAGING

Navigation

Press the MNU function button, Select the "OPERATION" menu, click the Selector Knob, and rotate the Selector Knob until "MESSAGE STATUS" is displayed.

Functions

Under the MESSAGE STATUS MENU, there are THREE options:

- IN: (INBOX)
- OUT: (OUTBOX)
- SENT: (SENT MESSAGES)

IN: <#> - Inbox

To view messages received by the Indigo One, click the Selector Knob until a flashing block "■" is in front of the "IN:" option, and press the "SND" button to view the message(s). Note that if no messages have been received, the <#> indication will be absent.

You can now scroll through the list of messages received by the Indigo One unit by scrolling the Selector Knob to the left or right. The messages received, are listed in date/time order; if the length of a message exceeds the boundary of the LCD display, click the Selector Knob and hold it down, to scroll through the entire message.

To go back to the list of received messages, click the SND button.

OUT: <#> - Outbox

To view messages waiting to be transmitted from the Indigo One, click the Selector Knob until a flashing block "■" is in front of the "OUT:" option, and press the "SND" button to view the message(s).

You can now scroll through the list of messages waiting to be transmitted out of the Indigo One unit, by scrolling to the left or right using the Selector Knob. The messages waiting to be transmitted, are listed in date/time order; if the length of a message exceeds the boundary of the LCD display, click the Selector Knob and hold it down, to scroll through the entire message.

To go back to the list of messages in the outbox, click the SND button.

SENT: - Sent Items

To view messages successfully sent from the Indigo One, click the Selector Knob until a flashing block "■" is in front of the "SENT:" option, and press the "SND" button to view the message(s).

You can now scroll through the list of messages sent out of the Indigo One unit, by scrolling to the left or right using the Selector Knob. The messages sent, are listed in date/time order; if the length of a message exceeds the boundary of the LCD display, click the Selector Knob and hold it down, to scroll through the entire message

To go back to the list of sent messages, click the SND button.



New Message

To send a new message, press the “MSG” button (note you must be in the OPERATIONS MENU to use this button). You will now be given the option of composing the following types of messages:

TEXT MESSAGE	A blank message
OPERATIONAL	A list of typical messages associated with operations
AIRCRAFT	A list of typical messages associated with the aircraft itself
CREW/PASSENGER	A list of typical messages associated with the crew or passengers of the aircraft
MEDICAL	A list of typical messages associated with medical conditions on board
GENERAL	A general list of messages not categorized into the above
CUSTOM	A custom list of messages set up by the owner/operator of the aircraft

Once you have selected the type of message you would like to send by rotating the Selector Knob, click the Selector Knob to proceed. With the exception of the “TEXT MESSAGE” option, you can now rotate through the list of messages available, within each sub-menu. When you have located the message you want to send, click the Selector Knob again to select it. Should you wish to add additional text to this message, use the Selector Knob to scroll through the cycle of characters to the required one, then click to accept the letter and move on to the next space. Once you have completed your custom message, press the SND button to transmit the message. The “TEXT MESSAGE” option will skip this, and navigate directly to the message customization.

A list of the standard messages loaded in the Indigo One is listed in Section 10 of this manual, as well as on the Quick Reference card provided.



Customizing a Message

You can edit text in the Indigo One to customize a standard message by using the Selector Knob. Rotating the knob will cycle through a series of letters, numbers and characters, and clicking it in will select the current character, and progress to the next position in the text message.

To put a space between words, choose the blank (space) character (this is between the characters “z” and “0”), then Click the Selector to use the “space” character. This will appear as a flashing block “■”, to a flashing blank character “_”. You can then rotate the selector to move the cursor to the start of the next word.

To make a correction to text you have already entered, click the Selector and hold it in, until the character is deleted, and proceed with the Selector to continue with your custom message. Please note the number of characters that can be added to a custom message:

Inmarsat D2 Service	9 characters
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It is not necessary to move the cursor off the last character before sending the message, as this will add another character to your message.

When you have completed your message, press the SND button to queue the message in your OUT: (Outbox). It will be transmitted and moved to your SENT: (Sent Items mailbox).



CONFIGURATION DISPLAY

Navigation

Press the MNU function button, rotate the Selector Knob until "CONFIGURATION" is displayed, and click the Select Knob.

Functions

The Indigo One unit has several Configuration Screens:

BACKLIGHT	Shows the current backlighting configuration
REAL TIME TACKING	Shows if real time track is either Enabled or Disabled, if it is Enabled, it will also display the reporting Interval in minutes
POWER UP POWER DOWN	Shows the currently configured settings for the Power Up/ Power Down notifications
BLOCK START BLOCK END	Shows the currently configured settings for the Block Start/ Block End notifications
TAKEOFF LANDING	Shows the currently configured settings for the Takeoff/Landing notifications
EXCESS +/- G	Shows the currently configured settings for the Excess-G notification
LOW VOLTAGE	Shows the currently configured settings for the Low Voltage/ High Voltage notifications
DIG IN 1 DIG IN 2	Shows the currently configured settings for the digital inputs: DISABLED = Ignored ON/OFF = Configured to log any change MSG = Configured to notify on change
DIG IN 3 DIG IN 4	Shows the currently configured settings for the digital inputs: DISABLED = Ignored ON/OFF = Configured to log any change MSG = Configured to notify on change
DIG IN 5 DIG IN 6	Shows the currently configured settings for the digital inputs: DISABLED = Ignored ON/OFF = Configured to log any change MSG = Configured to notify on change
DIG IN 7 DIG IN 8	Shows the currently configured settings for the digital inputs: DISABLED = Ignored ON/OFF = Configured to log any change MSG = Configured to notify on change
ANALOG 1	Shows the currently configured settings for the analog input
ANALOG 2	Shows the currently configured settings for the analog input



TEXT SCROLL SPEED	Shows the currently configured settings for the text scroll speed, when the length of a message exceeds the boundary of the LCD display
PIN REQUEST AT STARTUP	Shows the currently configured settings for the PILOT PIN request at startup
AUDIO NOTIFY	Shows the current audio notification configuration (ON/OFF) when messages arrive to the IN:<#> (INBOX)
RESET TO FACTORY DEFAULT	This allows the Pilot to reset the unit's configuration back to factory defaults (the Operator must configure the unit in IndigoTrack to "Allow Pilot to Disable" to use this feature)

Most of the screens available under this menu item are advisory; however you can change the configuration of the Indigo One as follows:

BACKLIGHTING

There are two options for the backlighting control, either Internal or External. Under External control, the Indigo One backlighting will be controlled by the instrument panel lighting level selected in the cockpit. To override the instrument panel lighting level, you can change the unit to Internal control, where you can adjust the lighting level of the Indigo One unit only. You can make these changes as follows:

- Press the MNU button
- Navigate to the "Configuration" menu. Click the selector in, this will allow you to navigate between the "INTERNAL" and "EXTERNAL" Backlight using the Selector scroll.
- If you are in the "INTERNAL", click in the selector TWICE, to navigate to the lighting level, and rotate the selector to change the backlighting level.

AUDIO NOTIFY

The Indigo One unit has been connected to the audio channel in the aircraft, and can notify you of the arrival of a message, or the occurrence of an event, by sounding a beep through the audio channel.

- To Enable or Disable this feature, the operator must configure the Indigo One unit on IndigoTrack, and update the unit's configuration file, either via Satellite or USB configuration



REAL-TIME TRACKING (if permitted)

You can change the reporting interval of the Indigo One unit or disable tracking on this menu (provided that permission has been granted when the unit was configured). If a cursor is available on this screen, you can change the options as follows:

- To change the reporting interval, position the cursor under the interval value and click the selector knob. Rotating the knob will now alter the position reporting interval (note minimum of 1 min and maximum of 30 min interval). Click the selector to save the change.
- To disable real-time tracking, position the cursor under the ENABLED/DISABLED item, and click the selector to alternate between the two.

Please note that for both of these items, every time the interval is configured, or tracking enabled/disabled, a message is sent from the unit to notify the operations center of the change in configuration.

RESET TO FACTORY SETTINGS (if permitted)

You can reset the Indigo One unit to the initial settings configured in the factory by selecting this option. Click the selector and rotate until the message reads: "YES, CHANGE TO FACTORY SETTINGS". Clicking the selector on this item will reset the Indigo One unit, *and send a message to the operations center to notify them of the change in configuration.*

Note: to configure Real-Time Tracking and Reset to Factory Settings, the operator must enable the "Allow Pilot to Disable" feature in IndigoTrack and update the unit's configuration either via satellite or USB.



UPGRADING THE INDIGO ONE

From time to time, IndigoSat may release a new version of the software that operates inside the Indigo One unit (known as the “firmware”). A new version will typically add more functionality to the unit, and it is our strong recommendation that these updates are performed as soon as possible.

In order to perform the upgrade, you will need a USB memory stick (minimum capacity 64Mb), formatted in FAT16 mode, and a PC with an internet connection, USB capability, and the latest version of the IndigoTrack software installed. You may also upgrade the firmware by emailing it to a remote location for upgrade. A single memory stick may be used to upgrade a number of units.

Local Upgrade

This is where the PC being used to prepare the USB stick and the aircraft are in the same location:

- Step 1:* Prepare the USB stick using the IndigoTrack software, as per the instructions in the IndigoTrack Administrator’s Guide.
- Step 2:* Take the USB stick out to the aircraft, and insert into the unpowered Indigo One unit. (The unit should have been without power for at least 15 minutes to ensure the keep-alive power is not still running)
- Step 3:* Switch the avionics master on to power the Indigo One unit; the unit will automatically detect the presence of the firmware upgrade, and will perform the upgrade automatically.

NEVER ALLOW THE INDIGO ONE UNIT TO LOSE POWER DURING THIS PROCESS, AS DOING SO MAY CORRUPT THE UNIT’S FIRMWARE, AND IT WILL CEASE TO OPERATE. IF THIS OCCURS, A UNIT SWAP WILL BE NECESSARY.

- Step 4:* After the firmware has been successfully upgraded, you may remove the USB stick from the aircraft. Note that depending on the preparation of the USB stick, the message database may also be updated, the notification settings altered and log file downloads may also have been written to the USB.

*Note: the USB stick must be formatted in FAT16 mode



Remote Upgrade

This is where the PC being used to prepare the USB stick and the aircraft are not in the same location:

Administrator:

- Step 1:* Prepare the USB stick using the IndigoTrack software, as per the instructions in the IndigoTrack Administrator's Guide.
- Step 2:* The preparation will create two files on the USB, named "INDIGO1.CFG" and "INDIGO1.ACT". Email these two files to the engineer/pilot at the remote location.

*Note: the USB stick must be formatted in FAT16 mode on both the Administrators and Engineer/Pilot ends.

Engineer/Pilot:

- Step 1:* On receipt of the email from the Administrator, save the attached two files onto a USB memory stick.
- Step 2:* Take the USB stick out to the aircraft, and insert into the unpowered Indigo One unit. (The unit should have been without power for at least 15 minutes to ensure the keep-alive power is not still running)
- Step 3:* Switch the avionics master on to power the Indigo One unit; the unit will automatically detect the presence of the firmware upgrade, and will perform the upgrade automatically.

NEVER ALLOW THE INDIGO ONE UNIT TO LOSE POWER DURING THIS PROCESS, AS DOING SO MAY CORRUPT THE UNIT'S FIRMWARE, AND IT WILL CEASE TO OPERATE. IF THIS OCCURS, A UNIT SWAP WILL BE NECESSARY.

- Step 4:* After the firmware has been successfully upgraded, you may remove the USB stick from the aircraft. Note that depending on the preparation of the USB stick, the message database may also be updated, the notification settings altered and log file downloads may also have been written to the USB.



STANDARD INDIGO ONE MESSAGES

The following are the standard list of messages loaded in the Indigo One (please note the standard message below are an indication only, as standard messages may change over time). Please note that owner/operator-specific messages may be located under the "CUSTOM" message type.

OPERATIONAL

AIRCRAFT INDEX UNIT:	HEADING CHANGE TO:
AIRCRAFT WEIGHT:	INFO:
CREW ILLNESS:	NO FUEL AVAILABLE:
DELAY – ATC:	PLS SEND FLIGHT PLAN:
DELAY – PAX:	RETURNING TO BASE:
DELAY – REFUEL:	ROUTE CHANGE:
DELAY – WEATHER:	ROUTE CHANGE (WEATHER):
DESTINATION:	ROUTE DIVERSION:
DIVERTING TO:	RUNWAY UNSUITABLE:
ENDURANCE:	SOULS ON BOARD:
ETA AT DESTINATION:	USE OF AVGAS:
ETD CURRENT LOCATION:	WEATHER – DIVERTING TO:
FLIGHT PLAN FOLLOWS:	

AIRCRAFT

AIR CONDITIONING DEFECT:	GENERATOR FAILURE:
AUTO PILOT MALFUNCTION	GPS MALFUNCTION:
BLEED VALVE HOOTING:	HAIL DAMAGE:
BRAKE MALFUNCTION:	HIGH ENGINE TEMP @ SDOWN:
CHIP LIGHT:	HYDRAULIC PRESSURE MALFUNCTION:
COMMUNICATIONS FAILURE:	IGNITER/EXCITER FAILURE:
CURRENT LIMITER MALFUNCTION:	INVERTER FAILURE:
ECTM DATA – ALT:	LANDING LIGHTS MALFUNCTION:
ECTM DATA – FUEL FLOW:	LIGHT STRIKE:
ECTM DATA – IAS:	MODE C FAILURE:
ECTM DATA – ITT:	NAV LIGHTS MALFUNCTION:
ECTM DATA – N1:	OIL LEVEL LOW:
ECTM DATA – N2:	PAX/CABIN LIGHT BROKEN:
ECTM DATA – NP:	PRESSURISATION DEFECT:
ECTM DATA – OAT:	PROPELLER HUNTS:
ECTM DATA – TORQUE:	PROPELLER SYNC:
ECTM DATA FOR ENGINE:	RADIO/COMMS MALFUNCTION:
ENGINE "BARKS":	TAXI LIGHTS MALFUNCTION:
ENGINE HANGS ON START:	TORQUE FLUCTUATIONS:
ENGINE INSTRUMENT MALFUNCTION:	TRIM RUNWAY:
ENGINE RUNDWN TIME SHORT:	UNDERCARRIAGE MALFUNCTION:
FLAP MALFUNCTION:	YAW DAMPER:
FOD	

CREW/PASSENGER

CATERING NOT ON A/C:	FUEL CARD INOPERATIVE:
CLEARANCE NOT APPROVED:	LOST LUGGAGE:
CREW CHANGE:	PAX:
CREW DUTY TIME EXTENDED:	PAX ILLNESS:
CREW MEMBER ABSENT:	PILOT DUTY TIME EXCEEDED:
CREW REPLACEMENT:	REQUIRE FOREIGN EXCHANGE
CUSTOMS DIFFICULTIES:	

MEDICAL

PAX INJURY:	NO AMBULANCE AT DESTINATION:
AIRCRAFT PROBLEM:	NO LIGHTS-HOLDING TIME?:
CALL US ON:	PATIENT CRASHING:
DEFIBRILLATION APPLIED:	PATIENT P1:
DELAY-MED CREW NOT BACK:	PATIENT P4:



AIRCEW OPERATING INSTRUCTIONS
FOR THE
INDIGO ONE SATELLITE TRACKING AND COMMUNICATION SYSTEM

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EFFECTIVE DATE: 20 Oct 2007

DIVERTING TO ALTERNATE:	REQUIRE MEDEVAC:
NEED HELICOPTER:	RUSH AMBULANCE:
NEED RUNWAY LIGHT AT DESTINATION:	TO SMS REASON FOR DELAY:

GENERAL

YES:	DON'T UNDERSTAND:
NO:	PLEASE ADVISE:
DON'T KNOW:	AWAITING RESPONSE: