

USER MANUAL



October, 2009 Syscan-ID



NOTICE

THE POWER SUPPLY IS TO BE USED TO RECHARGE THE BATTERY AND NOT TO RUN THE READER.

INFORMATION TO USER

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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class A 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 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 a particular installation. If this equipment does cause harmful interference to radio 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

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

LiveTrack Reader – User Manual. Page: 2 / 21



1. NOMENCLATURE	5
1.2 CHARGER/SERIAL CONNECTION	6
1.3 Indicator icons	7
1.4 MAIN SCREEN	8
1.5 Menu Screen	9
1.6 INFO MENU	
1.7 User Menu	
1.8 Advanced menu	
2. COMMUNICATIONS	19
2.1 BLUETOOTH COMMUNICATION	
2.2 SERIAL COMMUNICATION	
2.3 PACKET DESCRIPTION	
2.4 Scale connection	



SPECIFICATIONS

Case:	Polycarbonate ABS
Operating Frequency:	125 kHz and 134.2 kHz
RFID Compatibility:	HDX ISO, FDX-B ISO and EM4002
Reading Distance:	25-35 cm, 10-14 Inches (HDX)
Memory:	30, 000 tags
Communication Ports:	Serial RS232 or optional Bluetooth (Class1, 100m)
Battery:	7.4V Li-ion rechargeable
Power Input:	12 VDC for charging battery
Protection Class:	IP 66
Dimensions:	65 X 10 X 3cm (26 x 4 x 1.2")
Weight:	0.7 kg (1.5 lbs)
Display:	Graphic OLED 128 x 64 pixels
Display Languages:	English, French, Spanish and German
Included in the box:	Quick Start Guide, Reader, LiveTrack [®] Manager Software, Manuals (on CD), Hand Strap, Serial Cable and 12v DC international power supply.



1. Nomenclature



- 1. RFID reading zone
- 2. Display screen
- 3. ON/OFF button
- 4. Control buttons
- 5. Handle/Battery compartment
- 6. Battery compartment door
- 7. Charge/Serial connector



1.2 Charger/serial connection



Pin 1 : 12 VDC IN Pin 2 : RS-232 TX data to PC Pin 3 : RS-232 Rx data from PC Pin 4 : N/C Pin 5 : GND



1.3 Indicator icons

Bluetooth icon



Counter

Bluetooth icon:	ON: The Bluetooth circuit is present and on. OFF: The Bluetooth circuit is off.
Connection arrows:	The arrows indicate that the Bluetooth is connected.
RFID icon:	ON: The RFID circuit is on and ready to read. OFF: The RFID circuit is off.
Battery icon:	Indicates the battery power left in the reader.

LiveTrack Reader – User Manual. Page: 7 / 21



1.4 Main screen





1.5 Menu screen







1.6 Info menu

MENU 31/07/07 COUNTER SEPARATOR INFO MENU USER MENU ADVANCED MENU <back enter=""></back>	Select INFO MENU by choosing it from the MENU and pressing the right arrow button.
<u>INFO MENU _</u> BAT:7.85V SER:F70-LTL03850 VER:VF01.08R MEM:00025 B9600 <back< td=""><td>The INFO MENU contains informations about the reader including: BAT : Actual battery voltage. SER : Serial number of the reader. VER : Firmware version. MEM: Number of tags in memory. B9600: Signifies a Bluetooth module at baud rate 9600.</td></back<>	The INFO MENU contains informations about the reader including: BAT : Actual battery voltage. SER : Serial number of the reader. VER : Firmware version. MEM: Number of tags in memory. B9600: Signifies a Bluetooth module at baud rate 9600.
MENU 31/07/07 COUNTER SEPARATOR INFO MENU USER MENU ADVANCED <back enter=""></back>	Get back to MENU by pressing the left arrow button.



1.7 User Menu

MENU 31/07/07 Counter Separator Info Menu User Menu Advanced Menu (Back Enter)	Select USER MENU by choosing it from the MENU and pressing the right arrow button.
USER MENU _ CODE & WEIGHT <back enter=""></back>	The USER MENU contains special features to perform specific tasks.
CODE & WEIGHT _ NO NO <back< td=""><td>CODE & WEIGHT will allow saving a code and a weight for each tag read. Get back to USER MENU by pressing the left arrow button.</td></back<>	CODE & WEIGHT will allow saving a code and a weight for each tag read. Get back to USER MENU by pressing the left arrow button.



1.8 Advanced menu

MENU 31/07/07 COUNTER SEPARATOR INFO MENU USER MENU ADVANCED MENU (BACK ENTER)	Select the ADVANCED MENU by choosing it from the MENU and pressing the right arrow button.
ADVANCED MENU _ ERASE MEMORY DOWNLOAD MEMORY READ MODE DUPLICATES VIBRATION SOUND LANGUAGE SITE NUMBER BLUETOOTH LOAD DEFAULT OUTPUT MENU SET TIME & DATE LINE FEED TAG TYPE RFID INFO. <back enter=""></back>	The ADVANCED MENU contains all the advanced features and settings available on the reader.
ERASE MEMORY _ 00025 TAGS 05 % <back erase●<="" td=""><td>Select ERASE MEMORY by choosing it from the ADVANCED MENU and pressing the right arrow button.</td></back>	Select ERASE MEMORY by choosing it from the ADVANCED MENU and pressing the right arrow button.

LiveTrack Reader – User Manual. Page: 13 / 21







LiveTrack Reader – User Manual. Page: 16 / 21



LiveTrack Reader – User Manual. Page: 17 / 21

2. Communications

2.1 Bluetooth Communication

The Bluetooth reader operates as a slave device. Please refer to your master device manual to establish the pairing. The reader does not need a PIN authentication. If your master device needs a PIN authentication, use **"default"**. Your master device should provide a COM port after pairing with the reader. Use that virtual COM port to communicate with the reader.

For more detail information, see the "LiveTrack Manager – Software Manual".

2.2 Serial communication

Use the serial cable provided in the kit to connect the reader to a DB-9 serial port.

Configure the serial port at **9600**, **n**, **8**, **1** and **no handshaking**.

2.3 Packet description

When an RFID Tag is read, the tag, date, time and site # will be saved in the reader's memory and will be transmitted via Bluetooth or serial communication.

When a read occurs, the format of the packet being sent by the reader is as follows:

FCCCDDDDDDDDDDDDAASSMMHHWWDDMMYYTTTTTT'CR'

*The packet can be modify using the OUTPUT MENU. (See page 16)

Field	Description	
F	Тад Туре	
	'F' for ISO FDX-B tags 'H' for ISO HDX tags	
	'I' for EM4002 tags	
CCC DD AAYY	The tag's country code The tag's unique Identification number The time and date of the reading	
	Field description	
	 AA 2 numbers for the milliseconds SS 2 numbers for the seconds MM 2 numbers for the minutes HH 2 numbers for the hours WW 2 numbers for the day of the week ex: Monday = 01 and Sunday = 07 DD 2 numbers for the day MM 2 numbers for the month YY 2 numbers for the year 	
TTTTTTT CR	The site number Carriage return - ASCII code 13 (0x0D)	

2.4 Scale connection

The LiveTrack reader is compatible with most scale heads on the market today. Including:

Gallagher Reliable Scales Avery Weigh-Tronix Tru-Test WW Paul Scales Digi-Star Tru-Test Toledo Vesta

- 1. Make sure you have an EID compatible scale (see Manufacturer)
- 2. Simply configure the scale to receive the EID from the reader (see your Manufacturer's documentation).
- 3. If you are using a Bluetooth connection, make sure you have a Bluetooth compatible scale and LiveTrack reader.

Serial connection:

Select only the TAG ID from the OUTPUT MENU (see page 16). The menu should look like this when done with the configuration.

OUPUT	MENU _	
TAG 1	TYPE	
>TAG)		
DATE	7 TIME	
SITE	NUMBER	
< BACK	YES/NO●	

Simply plug the communications cable that came with your LiveTrack reader into the input port on your scale.

When reading a tag the EID tag number should appear on your scale, some scales only display a part of the number.