USER MANUAL

HC TAG v2.0

Model: PRF-HCT20

Author	Ehud Bachman
Approved by	Barak Trabelsi
Document version	1.0
Product	HC TAG v2.0
Date	AUGUST 2014

Document version management

Date	Version	Comments	Author
20.8.2014	1.0	Initial version	Ehud Bachman

Table of Contents

1 Introduction

1.1 About this Guide

This User Guide contains important information for users of the PRF-HCT20 product and all of its series.
This guide introduces the PRF- HCT20 and provides instructions on how to install, configure, operate, and troubleshoot the device. Each section has both written and graphically explanations to provide the technical information necessary to be successful at using, installing, and configuring the PRF-HCT20 device.

1.2 Important Information

SuperCom Inc. reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to SuperCom Inc.'s terms and conditions of sale supplied at the time of order acknowledgment.
SuperCom Inc. warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with SuperCom Inc.'s standard warranty. Testing and other quality control techniques are used to the extent SuperCom Inc. deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.
SuperCom Inc. assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using SuperCom Inc. components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.
SuperCom Inc. does not warrant or represent that any license, either express or implied, is granted under any SuperCom Inc. patent right, copyright, mask work right, or other SuperCom Inc. intellectual property right relating to any combination, machine, or process in which SuperCom Inc. products or services are used. Information published by SuperCom Inc. regarding third-party products or services does not constitute a license from SuperCom Inc. to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from SuperCom Inc. under the patents or other intellectual property of SuperCom Inc.
Resale of SuperCom Inc. products or services with statements different from or beyond the parameters stated by SuperCom Inc. for that product or service voids all express and any implied warranties for the associated SuperCom Inc.
Product or service and is an unfair and deceptive business practice. SuperCom Inc. is not responsible or liable for any such statements.

1.3 Safety Precautions

!

The equipment contains communication devices. Any changes or modifications made to the equipment without the written consent of SuperCom Inc. or SuperCom Ltd., or Vuance Ltd., and its resellers or distributors, can nullify the user's authority to operate this equipment.
The user assumes all risks associated with the use and handling of the equipment, and specifically acknowledges that SuperCom Inc. & SuperCom Ltd. & Vuance Ltd., and its resellers or distributors, will not be liable for any damages of any kind, including personal injury or property damages resulting from use of the equipment.

!

Carefully read the safety information contained in this section, and throughout this user guide, before installing, operating, or performing any maintenance task on the equipment.

!

Operations not performed as per the instructions in this user guide are done at the user's own risk and liability.

!

Only trained, authorized personnel should install, maintain and repair the equipment.

!

Once you have thoroughly reviewed this user guide, if you have any questions, please contact your reseller.

1.4 FCC Warnings

The FCC Wants You to Know

This equipment has been tested and found to comply with the limits for a Class 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 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:

a) Reorient or relocate the receiving antenna.

b) Increase the separation between the equipment and receiver.

c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

d) Consult the dealer or an experienced radio/TV technician.

FCC Warning

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

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.

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.

2 Technical Specifications

2.1 Interfaces and MMIs

2.1.1 RF

1 x RF 433MHz ASK\FSK Transmitter module

1 x LF 125KHz OOK Receiver module

2.1.2 Tampers & Sensors

Motion sensor

Wire tamper (optional)

Proximity sensor (Optional)

2.1.3 MMI

Indication LED (internal only)

2.2 Power

Internal battery 3v

2.3 Operational temperature

-20°C to +60°C

3 Operational description

This model currently has two sub-models (P/Ns):

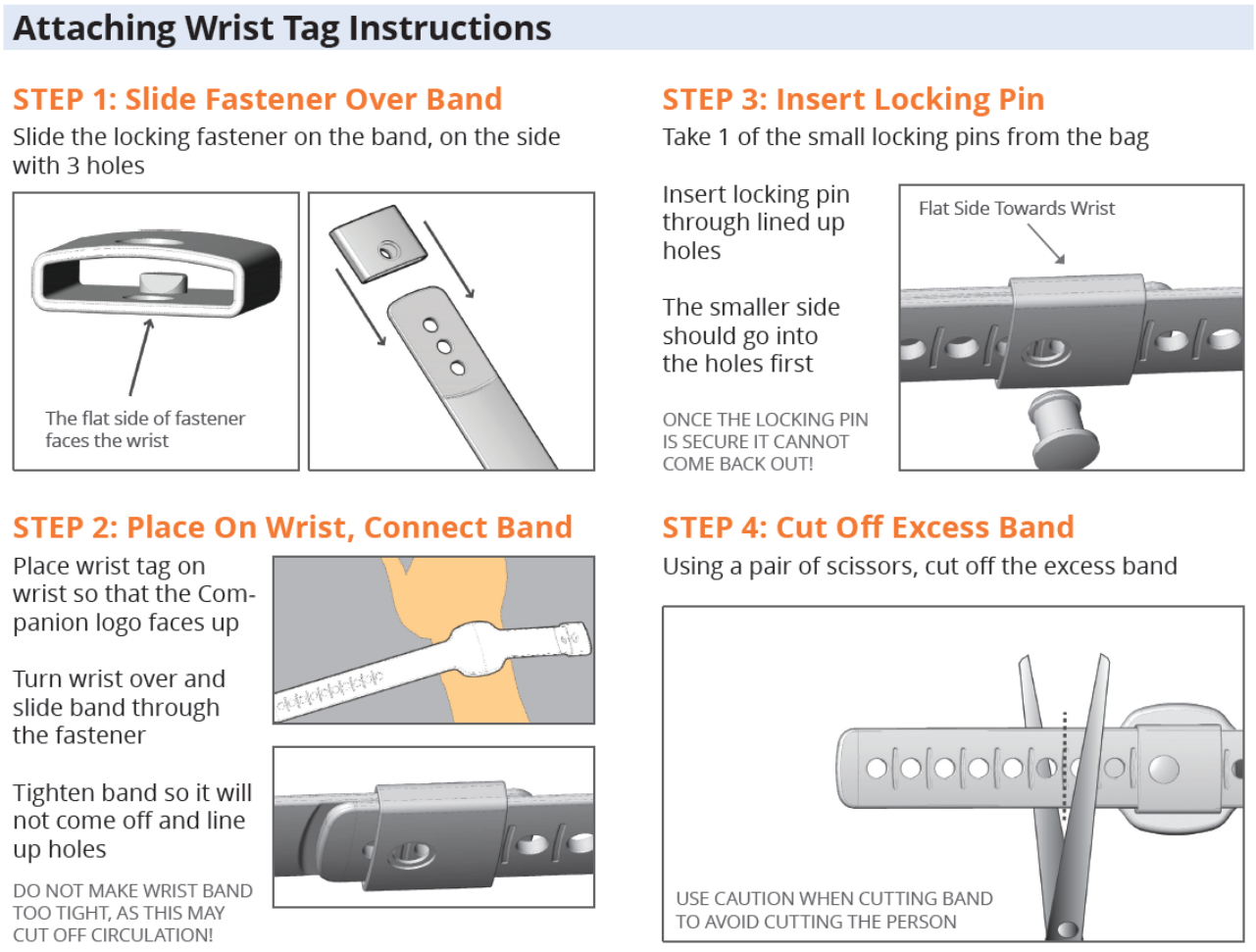
3.1 P/N: PRF-HCT20WT

PRF-HCT20WT is targeted for the health care market to be used to track and monitor Alzheimer or Dementia patients who may be prone to wandering you know the importance of keeping them safe and secure in your home or facility.

The unit immediately alerts when the patient trying to leave the premises.

The unit shall be sold to distributors and directly to customers around the world, along with detailed installation instructions depended on their specific requirements and needs.

3.1.1 Installation Instructions – PRF-HCT20WT



3.2 P/N: PRF- HCT20LA

PRF-HCT20LA is targeted for smart security systems, to be used to track and monitor most secured inventory/asset.

While using the tag in a complete system, it offers a complete tracking and monitoring via a secured and reliable locking mechanism.

The unit comes in mini rugged enclosure to be smaller and durable as possible.
The unit alerts when an unauthorized person opens the lock.

It is supplied with detailed installation instructions depended on the specific requirements and needs of the distributor/buyer.

Example photo of PRF-HCT20LA:

4 References

4.1 Acronyms and Abbreviations

API – Application Programmer Interface
ADC – Analog to Digital Conversion
RF – Radio Frequency
CPU – Central processing unit
CAD – Computer Aided Design
CISC –Complex Instruction Set Computing
DAC –Digital to Analog Convertor
ETSI –European Telecommunications Standards Institute
FCC –Federal Communications Commission
GUI – Graphical User Interface
I/O –Input/output
IRQ –Interrupt Request
ISO –International Organization for Standardization
Kbps –kilobit per second
LED –Light Emitting Diode
MCU – Micro Controller unit
MMI – man machine interface
RAM –Random Access Memory
ROM –Read Only Memory

5 Appendix A:

Model Name: PRF-HCT20

P/Ns types: PRF- HCT20EM
PRF- HCT20AT

The tables below describe the sensor combination that can be for any PRF- HCT20,
For PRF- HCT20XX series:

FCC ID: W5P-PRF-HCT20		HC Tag v2.0
		Model: PRF-HCT20
Wire tamper ☐	Wire tamper ☑	
Prox. Sen. ☐	Prox. Sen. ☑	
Motion sen. ☑	Motion sen. ☑	
LockAlert enc. ☐	LockAlert enc. ☑	
HealthCare enc. ☑	HealthCare enc. ☐	
Asset enc. ☐	Asset enc. ☐	
PRF-HCT20WT	**PRF-HCT20LA**	SuperCom PN
Wrist Tag	Lock Alert	