High-Risk Patient Bracelet

Description

The Elpas High-Risk Patient Bracelet from Visonic Technologies is a rechargeable miniature, unified active long-range Radio Frequency (RFID) and Infrared device. Engineered to be an highly-effective risk management tool for acute care hospitals, psychiatric units as well as geriatric care facilities, the bracelet provides 24/7 real-time location tracking of patients with a high probability of 'Elopement' or 'Wandering'.

The High-Risk Patient Bracelet is comprised of a rechargeable tag and a disposable, anti-tamper, adjustable band made of skin-safe non-latex materials. When worn, the bracelet automatically transmits alert notifications for keeping facility personnel informed of deliberate or accidental tampering or should the patient disappear from the protected area.

The bracelet's all-in-one, dual technology transmitter continuously emits low power, beacon type radio frequency (RF) supervision messages as well as safe, supplemental infra-red (IR) messages (optional) that identifies the exact real-time location of the high-risk patient with unparalleled reliability and precision. Additionally, the bracelet's onboard magnetic low frequency (LF) receiver adds chokepoint area detection so whenever the high-risk patient nears a prohibited exit/entrance covered by an Elpas LF Exciter a security intervention alarm is raised.

The High-Risk Patient Bracelet is small in both size and weight and is enclosed a tough ABS, IP-66 water rated outer casing. Powered by an internal rechargeable lithium battery, the badge's 'Hibernation' power management protects the battery from total discharge and greatly extends the life expectancy of the tag. The badge also includes two LEDs for indicating operational status, tamper and low battery condition

Elpas High-Risk Patient Bracelet

Product Features
Small size and weight
Tough, shock proof, water resistant housing
Instant tamper/removal indication
Dual RF/IR signaling technologies
Onboard LF receiver
Adjustable, latex-free, disposable anklet bands
Hibernation power management mode
Internal rechargeable lithium ion battery pack
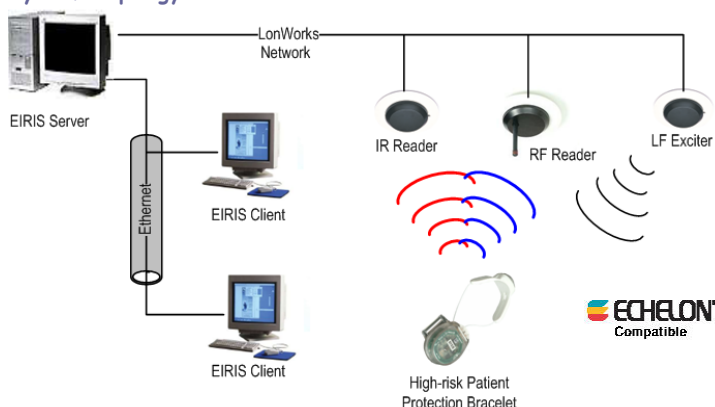Flashing low battery indicator
CE and FCC approved

Applications & Uses
24/7 high-risk patient supervision
Wandering patient monitoring
Court committed patient monitoring
Real-time lost patient tracking
Patient movement and auditing
Exit/Entrance security supervision
Hands-free access control

Elpas High-Risk Patient Bracelet – Data Sheet

Electrical Specifications

Transmissions Rates	IR: 7.5 Seconds - Constant / RF: 15 seconds – Constant / While In Charger RF/IR: 120 seconds - constant
RF Transmission Rate upon entry into LF area	Burst of 4 supervision messages (each lasting @ 2ms) with intervals of between 200 and 400ms, and the total burst time not exceeding 1 second
Events: **Band Closed (B2 up)** **Band Opened (B2 down)** **LF & Tamper**	Single burst of 4 messages (each lasting @ 2ms) with intervals of between 200 a 400ms, and the total burst time not exceeding 1 second
LF and Tamper Check	Every 600ms
Power Source	One Lithium Ion rechargeable battery pack
Time Between Charges	Approximately 1 week between recharges
Battery Life	3 years - approximate
Hibernation Mode	Initiates 12 hours after band is open, 48 hours after low battery, 30 minutes after removal from charger
Hibernation Supervision	Transmits motionless RF/IR messages every 10 minutes
Hibernation Warning	Transmits a burst of 4 motionless messages prior to hibernation
Green LED Indicator	Operational Mode: Flashes once every 15 seconds Disposable Band Removed/Connected: Rapidly flashes 4 times Hibernation Mode: Not Lit
Red LED Indicator	Low Battery: Flashes once every second
Badge ID	Unique factory programmed ID

General Specifications

Construction	Polymer plastic
Dimensions (H x W x D)	39.4 X 31.5 X 14.8 mm (1.55 x 1.24 x 0.582 inches)
Weight (assembled)	20 grams (0.75 ounces) approximate
Operating Environment	Temp: -10°C to 70°C (14°F to 158°F), Humidity: 20% to 80% non-condensing
Water Rated Enclosure	Tag: IP-66 / Complete Bracelet: IP-55
Remote Management	EIRIS 4.5 (or higher) enterprise software
Compliance Standards	EN301489-1, EN301489-3, EN60601-1-2, CISPR 11, EN60950-1, IEC61000-4-2, IEC61000-4-3, IEC60601-1, EN300 220-1, EN300 220-2 FCC Part 15.231 Level C, FCC ID#: GSA-BTC00433 (433.92 MHz)
Warranty	1 year limited warranty (excluding battery)

System Topology

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About Visonic Technologies

Visonic Technologies (VT), a fully owned subsidiary of Visonic, Ltd. (VSC.L) is a global leader in enterprise-class, active & passive RFID/ RTLS real-time visibility solutions. Sold under the Elpas, SpiderAlert, VisAccess & EIRIS system names, VT's products deliver personnel identification and safety; supply-chain logistics, asset protection and facility supervision.

Manufactured In Israel

Ordering Information

Part Number	Description
5-BTC00433-A	Rechargeable Tag, IR/RF/LF, 433MHz, 7.5/15/60
5-BTC00433	10 Rechargeable Tags, IR/RF/LF, 433MHz, 7.5/15/60, incl. 2 extractors
5-BTC00433-B	Rechargeable Tag, RF/LF. 433MHz, 15/15
5-BTC00433-1	10 Rechargeable Tags, RF/LF, 433MHz, 15/15, incl. 2 extractors
5-CRG90001	Charger, 6 position, European standard
5-CRG90001-1	Charger, 6 position, US standard
5-CRG90001-2	Charger, 6 position, UK standard

Accessories

Part Number	Description
5-BTC90001-1	Disposable Tamper Band, Pediatric, 24cm max. diameter, (25 units)
5-BTC90001	Disposable Tamper Band, Infant, 16cm max. diameter, (50 units)
5-BTC90003	Extractor, Infant (10 units)
5-BTC90006	Grip key w/lanyard (set of 5)
5-BTC09433	Dummy Rechargeable Tag

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Enterprise Protection Solutions