

SCANflow

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Smart Cabinet

Automated management of high quality products



/// The highly compact SmartCabinet

offers material managers a very simple-to-use system for automating management of high-quality medical devices, dressing materials and implants in all healthcare areas, e.g. in catheter labs, operating theatres, ophthalmology practices, pharmacies and clinics.

The use of patented RFID technology in combination with in situ (point-of-use) reporting, SmartCabinet offers hospitals the possibility of precise inventory management in real-time, including information on expiration dates - for each individual item. The highly developed cloud-based software allows an exact overview of

inventories, the use of items and the respective status of high quality medical devices across the entire supply chain. The UHF model allows the management of large quantities of smaller items and makes the SmartCabinet a useful tool in further areas, allowing even the smallest implantable devices to be managed in this way.



/// Use of the SmartCabinet

The caregiver or technician opens the SmartCabinet to remove the required medical device (e.g. stents, catheters, implants). The software records usage data without delay for seamless tracing and product management. Detailed and sortable reports, accessible from every Internet-capable device, provide a precise breakdown of the product name and status information (expired or shortly before the expiry date), the type of operation or procedure, the user, the distributor, the invoice, as well as further information, thus enabling staff teams from material

management, as well as other persons, access to information in real-time, such that inventory quantities can be adapted to ensure improved cost management. The SmartCabinet can communicate directly with the ERP systems and therefore reports can be sent directly to suppliers, distributors and manufacturers.

/// Filling the SmartCabinet

The RFID labels are affixed to the packaging or container of the medical device and are "registered" in the system by scanning the barcode of the respective item. These registered items or devices can then be immediately brought into the SmartCabinet

(a RFID transponder identifies the user and unlocks the cabinet door). The medical devices are placed in the shelves. The cabinet doors are closed and the products are now ready for use.

/// The benefits of this system

The SmartCabinet offers hospitals an affordable system with the relevant hardware and software for effective automation and optimised management of high-quality medical devices.

- **Management of consignment stores**
- **No manual counting required**
- **Creation of precise inventory records in real-time**
- **Immediate identification of the type of operation and the relevant item**
- **Support for inventory management in order picking**
- **Avoidance of inventory deficiencies and reduction of management costs**
- **Reduction of waste inventories through precisely tailored inventory levels**

The SmartCabinet can be located in operating theatres, cardiac catheterisation labs, interventional radiology labs, supply rooms for operating theatres, pharmacies and also in other departments and areas in which efficient and well-functioning storage management is of crucial importance.



/// Software LogiPlatform



With unrestricted connection to all elements in the procurement chain and seamless integration in the hospital ERP systems, LogiPlatform offers an end-to-end solution for the management of RFID devices, the control of data flow and real-time entry of usage information.

Functions

- **Connection to the existing infrastructure and to software applications and hospital ERP systems (Oracle, SAP and others)**
- **Optional installation at the customer site for increased security**
- **Automated dispatch of e-mail reports and alerts to managers, care staff, management and warehouse employees**
- **High availability through the use of a central data centre and a backup location for emergency recovery**
- **Automatic updates via web and browser-based software (always up to date without installations or downloads)**
- **Complies with Health Level Seven (HL7) protocol requirements and the CFR Title 21 Part 11 guidelines from the US FDA**

/// SmartReporting

Inventories can be automatically monitored and managed with the active and local installation of the SmartReporting solution from LogiPlatform. RFID codes / barcodes on all objects can be scanned at a mobile reporting station immediately after use. The object is then linked with the case number and appears in a real-time report for material management:

- **Comprehensive control of valuable objects**
- **Online management from any location**
- **No manual counting, no waste**
- **Automated replenishment & reduced process duration**
- **Link with invoicing, procurement and patient information**

Benefits

- **Comprehensive and precise visibility of stocks and assets, hierarchically structured around the clock and every day of the year**
- **Enables order picking models for warehousing based on 100% visibility and control**
- **Intuitive overviews to display devices, stocks, reports and schedules**
- **Integrated management module to add recipients, update approvals, add devices or equipment and to create report plans**
- **Supports the principles of lean management and quality assurance for the healthcare sector**

/// Technical Data

Power supply

Operating voltage:
100-240 V, 50/60 Hz

Energy consumption:
60 W

Ambient conditions

Operating temperature:
-20°C to +65°C

Storage temperature:
-20°C to +85°C

Dimensions

Depth: 55 cm
Width: 96 cm
Height: 205 cm
Weight: 160 kg

Standards and certificates

- ETSI EN 300 330 Part 1 & 2
- ISO 9001:2000 (Company)
- EN 301 489 (EMC)
- EN 60950-1 (Safety)
- CE

Host computer interface

TCP/IP:
Ethernet/LAN

Radio connection:
GPRS (Cellular)

Serial:
RS-232 Port

RFID specifications

Frequency band:
915-916.8 MHz
(ultra high frequency);
866-866.8 MHz; 902-927 MHz

Transponders supported:
ISO18000-6C, EPC Gen 2

RF output power:
Adjustable up to 2W

Antenna interface:
Internal antennas

Accessory options

- Glass doors
- Electronic locking system
- Complete cabinet with LED lighting



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