

FEATURES

Hardware

- 100% item reading, irrespective of location or position inside the cabinet.
- Modular system enabling a group of cabinets to be managed from a single computer.
- Cabinet access to authorized personnel only.
- Standardized structure according to ISO 3394, giving maximum flexibility in content organization, with 600 x 400 mm baskets.
- Cabinet made with cleaning product-resistant materials.
- System equipped with on-board UPS that guarantees system availability during temporary power outages.
- Indicator lamps for doors unlocked and doors accidentally opened.
- Audible alarm for doors accidentally opened.
- Cabinets fitted with plinth for easy cleaning.
- Optional caster wheels for easy movement.
- Opening by manual lock in contingencies.
- Optional identification by user card reader.
- Medical-grade PC panel with touch-sensitive screen.

Software

- Cabinet management software developed for a touch-sensitive screen interface enabling easy use by nursing staff. Easy-to-learn and intuitive.
- The system identifies who accesses the cabinets, for what purpose, what he/she takes out or puts back, at what time these inventory movements are performed and, lastly, records the patient for whom the material is intended if it is taken out for a procedure.
- Able to operate off-line with replication between databases.
- Integration platform with the Hospital's computer systems.
- On-line reporting system with real-time information.
- Advanced query module.
- Alerts for products that have expired or are close to expiry.




DYANE
smartcabinet



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DYANE
smartcabinet



Smart cabinet with RFID technology



¿What is **DYANE** *smartcabinet*?

DYANE *smartcabinet* is a restricted-access, smart cabinet system based on RFID technology for the management of high-cost material or material with high patient traceability requirements.

Its main areas of application within the Hospital are the Hemodynamics Department, Interventionist Radiology and Surgical Block, where the shortened expiry date of certain products, together with their high cost, makes it vital to reduce inventory levels and ensure optimal stock management.

Using RFID technology, **DYANE** *smartcabinet* manages traceability in real time of all movements made with the products contained in the cabinet.

A touch-sensitive screen provides the usability that the nursing staff needs for smooth, safe performance of its duties.

System management, monitoring and reporting is provided by **DYANE**, a logistics management software at the consumption point. Among other functions, **DYANE** manages cabinet access, consumption records, automatically generated restock orders, while also providing access to parameterizable reports that allow real-time analysis of the information for effective decision-making.

OPERATION

Each product to be stored in the cabinets is labeled beforehand with a passive RFID tag. The tags provide a unique identifier for each item. This enables information to be ascertained about each item's features such as article number, batch number, serial number, expiry date, etc. This information can also be printed on the label.

Item association to the tag is transparent for the user and is carried out automatically when printing the location labels.

Each product is automatically linked to the RFID tag at the time of printing.

Inward and outward movements

After identifying the user and selecting the function to be performed, Dyane unlocks the doors to allow access to the cabinets' contents. It is from this point that the RFID's intelligence comes into play. After the doors have been closed and the user has logged out, the system locks all the doors again, performs an inventory of the cabinets' content and automatically identifies the product inward and outward movements made.

The users do not need to read barcodes or press buttons to record inventory movements.

Integration

An integration platform guarantees connectivity and real-time data transfer between Dyane Smart Cabinet and the Hospital's computer systems, avoiding transcription errors and duplicated data entry in different systems. The main interfaces to be implemented are the item master, inventory movements, restock orders, patient census, users and allocation record.

BENEFITS

Return on investment - ROI

- Controlled access to high cost material and minimization of material losses.
- Minimization of product expiry-related costs.
- Reduced inventory costs.
- Improved allocation record of high-cost material.

Improved patient safety

- The right product is available at the right time.
- Nursing staff have more time available for patient care.
- Eliminates the use of expired products.
- Quick response to product health alerts.
- Product traceability with batch record, serial number and expiry date.

Improved inventory management

- Inventory levels matched to actual consumption.
- Minimizes time devoted to inventory taking and product expiry monitoring.
- Eliminates errors associated with manual inventory management and consumption record-keeping.
- Product traceability from arrival at the Hospital to recording in surgical procedures.
- Precise data capture without any need for manual record-keeping.
- Automatic restock orders for what is needed when it is needed.

Use of information

- Real-time availability of accurate information on the use of high-cost products.
- Ready access to information through management reports.
- Possibility of on-line access to inventory report, itemized by supplier.

