



# ECELMS

RFID LAUNDRY MANAGEMENT SYSTEM



 **ECE YAZILIM** • *Intelligent Business Solution*  
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# ECELMS

RFID LAUNDRY MANAGEMENT SYSTEM

## RFID TECHNOLOGY

SPEED

ACCURACY



## What ECELMS does?

Softwares produced for laundries draw an operation frame that generally consists of textile counts, and they are insufficient in many issues required by the sector.

ECELMS has been developed to provide control across the laundry, entire work flow from distribution to textile receiving beyond the counting. Control the pre-accounting procedures, machinery and other equipment, employee, chemicals and other expense that used.

In all stages, textiles are recognized and counted by the system with special RFID labels that are glued or stitch on them. It can resist to water, high temperature and pressure.

ECELMS is designed with a qualitative and parametric structure that can meet the needs of many business fields.

- » Hospitals
- » Hotels
- » Restaurants
- » Private Laundries
- » Dry Cleaning Companies
- » Official Institutions
- » Companies that providing textile washing and rental services



## TOUCH SCREEN

### EASY TO USE

ECELMS is designed to be used entirely with touch screens.

## EVERYTHING ON CONTROL

### FULLY CONTROL ON ALL STAGES

ECELMS consists dirty receiving, washing, packaging, clean output and delivery stages, also includes dirty receiving and clean delivery modules for employee uniforms, dry cleaning module for patients, hotel guests or businesses serving third parties.

System is user friendly and contains descriptive messages, user-friendly themes and non-boring designs, it aims to help the staff do their job easily and adapt new employee to the system quickly as possible.

Additionally entry of damaged ones during the receiving and packing of dirty textiles, detailed viewing of the textile history at all stages, is based on minimizing employee errors with many controls such as textiles that have been discontinued or expired.



## CONVEYOR BAND

### FOR HIGH CIRCULATION

It is specially designed for laundries with heavy work flow. RFID reader provides the opportunity to count up to 100% accuracy. Receiving dirty textile products and existing records are recorded into central system.

Depending on the capacities of the washing units, the counting process can be stopped when the capacity of the relevant machine is full, or counting can be continued/shifted to the machine with higher capacity. In this way, it is possible to improve the durability of the washing units by preventing excessive capacity.



## PACKAGING TABLE

### AUTOMATIC LABELING

It instantly counts all the RFID tags on textile products. When the product group reaches the maximum number of packing, it automatically prints label.

It informs the user by giving a warning for the textiles that has expired or damaged.



## CLEAN OUTPUT STAND

### WHOLE COUNTING

New generation wall mounted stand with RFID readers can read the textiles in the car or basket up to 100% accuracy. When the reading is completed the delivery receipt can be printed optionally.



Alternatively, clean output operations can be done by reading the packaging labels with barcode readers.





## FULL CONTROL

### DO NOT JUST COUNT

It eases the workload in the business in terms of compliance with the standards.

It does not just count textile. Ensures control at all stages of the workflow.

## UNIFORM MODULE

### SPECIAL FOR EMPLOYEE UNIFORM

Uniforms, workwear or any textiles used by the staff of the hotel, hospital or other institution are associated with that staff. Dirty receiving and clean delivery processes of the registered textiles can be followed through the system.

Confusion can be prevented by following staff uniforms one by one.

Action receipts can be printed for uniforms that are received and delivered. Detector function in the mobile application provides ease of use for finding staff's uniform in textile those belonging to any staff among the mixed textiles.

## DRY CLEANING MODULE

### RECEIVING, DELIVERING, PAYMENT

It is used for the receiving, delivering and pricing of textiles to patients, hotel customers or third person. Receipts of dry cleaning can be printed for textiles those received or delivered.

Payment can be made on delivery and invoice can be printed.





## PRE-ACCOUNTING MODULE

Clean textile and uniform outputs, dry cleaning deliveries are automatically dispatched and can be invoiced. Account balances can be trace with payment transactions.

Purchase and sales invoices for chemicals and other consumer materials used in the business can be recorded. In addition, inventory tracking can be made by reflecting the inventory usage to expenses record.

## BUSINESS EXPENSES

Employee salary, chemicals, electricity, water, fuel and other expenses can be recorded and reported.

## EMPLOYEE TRACK

Employee productivity can be analyzed with informations such as working hours, absenteeism and its reason.

## MACHINE PARK

Washing and drying units or all other devices on the parkour can be recorded in the system and easily followed by failure and repair history.



## CUSTOMER SATISFACTION

Control of customer complaints, solution times and solution stages increases customer satisfaction.

## CUSTOMIZABLE

### REPORT DESIGNS

All output types can be redesigned in detail through the back office application, multiple designs can be created within the same output type.



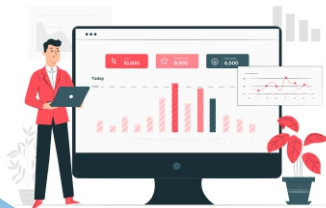


## ADVANCED REPORTING

### CENTRAL WEB INTERFACE

Detailed reports and graphics can be taken with the centralized web interface.

Wherever in the world, personally encrypted session information, instant status of the business and all other reports are presented to the user via computer, tablet or smartphone.



## VISUAL ANALYSIS

### WITH GRAPHICS



Visual reporting functions allow the company to evaluate data more easily for management and making a decision by creating graphics instead of text-based reports.

## INTEGRATED

### WEB SERVICES

Advanced web service structure enables data transfer to third party software. Workload can be reduced by integrating RFID codes. For example summary or detailed input and output transaction datas into hospital, hotel and any other system.

Third party alarm systems (entrance/exit doors) can generate alarms for registered RFID codes by making instant queries 24/7 via web services.

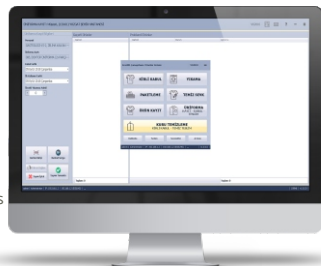


## FRONT OFFICE APPLICATION

- » Dirty textile input
- » Washing follow-up
- » Packaging and labeling
- » Clean output
- » Dirty uniform input
- » Clean uniform output
- » Dry cleaning section dirty input
- » Dry cleaning section dirty output
- » Whole textile registration
- » Whole textile disposal (decommissioning)
- » Whole textile loss identification
- » Whole loop editing
- » Ironing information and instruction screen
- » RFID basket / container tracking

## BACK OFFICE APPLICATION

- » Textile stock tracking based on warehouse
- » Warehouse correction and loss with inventory system
- » Mobile application
- » Pre-accounting
- » Current account tracking
- » Multiple shipping point definitions for current accounts
- » Chemicals and other card stock
- » Delivery note and billing processes
- » Employee absences
- » Customer complaints
- » Water hardness values
- » Equipment failure & repair records
- » Daily business expenses and records
- » Identifying damaged, chipless and stained textiles
- » Multiple pricing for textiles that are repaired
- » Prevention of reading unwanted RFID tags with blacklist structure
- » Detailed user authorization
- » Private Reports based on customers
- » Web-based, device-independent reporting system
- » 24/7 reliable operation with SQL database structure



Instant

Reporting

Grouping Type

By Products

Copy Excel PDF

Product	Beklen
001, Emergency Sheet	
001, Table Cover	
002, Operating Room Apron	





## HAND TERMINAL

### MOBILE RFID READER

Mobile RFID is an industrial device that has reader and touch screen on it. Its used for making clean textile deliveries to rooms, whole textile counting and controlling operations.

It speeds up the counting process with high reading capacity and provides full control in the work field. Through working integrated with the central system, it helps to transfer offline data transactions to the central database.



## MOBILE APPLICATION

- » Receiving dirty textiles
- » Packing and labeling
- » Clean warehouse delivery
- » Clean textile distribution to services
- » Inventory count
- » Textile detector
- » Fast overall counting
- » Pin code entry for transactions that require verification
- » Supports for mobile bluetooth printing in all functions
- » Online or offline working with the central system
- » Data transfer synchronization when it turns to connect to system

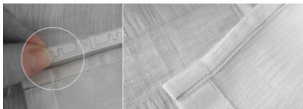


## HIGH SPEED

### MAXIMUM CAPACITY



Readers can read between 860 - 960 Mhz, and up to 600 tags can be read per second.



## RFID Chip General Features

» Frequency	860 - 960 Mhz
» RFID Chip	Class I Gen 2 ISO-18000-6C
» Dimensions	20 x 59 x 1.8 mm
» Reading Range	3 m
» Material	Epoxy / Polyester
» Max. Heat Resistance	200°C / 15 sec
» Tunnel Washing	90°C / 15 min
» Pre-Drying	160°C / 30 min
» Tunnel Ironing	185°C / 30 min
» Sterilization	134°C / 20 min
» Squeezing	60 bar
» Warranty	200 times use, 3 years

! System's advanced reading capability, detailed antenna and signal strength options can be configured, enables the reading function to be improved and maximum reading efficiency can be achieved even in difficult physical conditions.



## REFERENCES



REPUBLIC OF TURKEY  
MINISTRY OF HEALTH

YOZGAT CITY HOSPITAL



REPUBLIC OF TURKEY  
MINISTRY OF HEALTH

KAYSERİ CITY EDUCATION  
AND RESEARCH HOSPITAL



REPUBLIC OF TURKEY  
MINISTRY OF HEALTH

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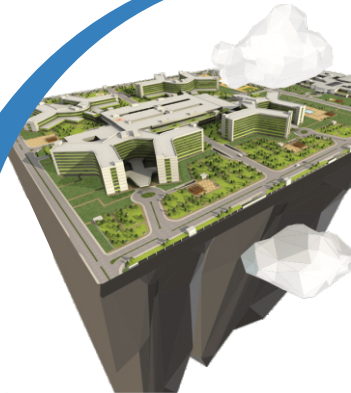


REPUBLIC OF TURKEY  
MINISTRY OF HEALTH

KONYA CITY HOSPITAL



# TISSUM





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**ECE YAZILIM** · *Intelligent Business Solutions*

Organize Sanayi Bölgesi Teknokent İdari Binası No: 1/9 Çorum/TÜRKİYE

+90 364 333 0 133

iletisim@eceyazilim.com

www.eceyazilim.com