SMARTDRIVE
THE POWER OF MOBILE SHELVING

SmartDrive Wifi Controller by Tesla Akıllı Depolama Ltd.

From smart phones to tablets , LCD touch sensitive screen technology and Wifi - Wireless communication has become part of our daily lives. Striving for optiminum ease-of-use and security, Tesla offers our own designed and developed unique Wifi powered mobile shelving control system called, SmartDrive. The control is the standard on our SmartAisle Powered mobile storage systems.

The 7" large LCD touch sensitive screen displays images with great clarity and rich color, along with providing many additional benefits and features. The 5" touch LCD option is also available.

BENEFITS AND FEATURES:

Ease of Use

- Interactive and dynamic screen with menu, arrows, stop signs, and other intuitive icons and colors. Screen changes to display the possible system movements and menu options available at any given time. These visual features help make it the easiest to operate and intuitive mobile system control

- Easy set-up wizard. No computer or software needed to setup system and manage users. Desired features can be accessed directly on the touchscreen and activated in only a few minutes

- Reconfigurable by user at any time, no need for service technician

- Lcd panels can be custom designed for the look of the touch pad frame as well as the graphics to reflect your company name, logo and imagery.

- System diagnostics clearly displayed on screen provide simple and intuitive servicing and troubleshooting

- Button-click sounds allowing for adjustment to user preferences

- Icon buttons to easily control aisle and bay lighting of aisles

Security

- PIN-Code or RFID card authorization, providing security and regulated use
  Note: PIN-code authorization built-in, but card authorization is an additional purchase option

- Audit log can be easily and effortlessly viewed from Wireless connected Tablet PC via SLink **Option** remote control software.

- Remote Control , Log Access ,Settings and Configuration Windows software SLink **Option.** Grants administrators and/or users the option to operate the system over the Wireless connected Tablet PC without having to physically touch the control.

Safety

- For safety and simplicity, just simple touch Stop button on any touch sensitive screen to stop carriage motion.

- Passive Safety , MCMS, Photo Safety sensor, Aisle Entry Safety Sensors, with clear instructions and warnings, that allows a user to safely operate the system

Additional Benefits

- Customizable Multi Language LCD interface. *Contact TESLA to find out how custom graphics, colors, screen savers, and languages can be customized to fit specific application needs*

- UPS Backup battery system **Option** allowing operation of system in case of power failure

TECHNICAL FEATURES & SPECIFICATIONS

Control: Electric-Intelligent-Computurized

Data Communication: WiFi (2.54GHZ) , wireless there is no any cable conduit or pantographs between the carriages.

Power Supply: External & entire mobile storage system operates under the extremely safe voltage 24VDC

Drive: Electric motor (24VDC Geared) 8 tonnes / 10 tonnes .

Max. number of mobile shelving unit in one block: 25

Movement: 8 tonne version: 6 -7m / min. 16 tonne version: 4,5 -5m / minute

Carriage Length: 1000 – 15000 mm

Cariage Height: 1400 – 3200mm

Carriage Depth: 300, 350, 400 and 450 mm

Usability: Intuitive Touch Panel LCD 7" Color with extra functionality

Language Support: English ,Turkish ,German, French, Spanish, Italian
You can set desired Language on the intelligent LCD panel

Two-sided control: Optional ,You can control your mobile shelving from the both side of the end-of panel for convenience.

Aisle LED lights: Optional, Aisle LED lights on mobile shelving systems are mounted and connected to over the shelves. When an aisle opens, the LED lights automatically turn on. Also can switches on manuelly by touching the lamp icon on the LCD control panel, light timeout can be adjusted by the authorised system admin.

External Warning Sound & Light: Optional ,Programmable External Warning Flashable LED Light & Sound system warns to users before & during the mobile shelving movement , best for public and warehouse.

Internal Warning Sound: Standard, Programmable Internal sound system warns to users before & during the mobile shelving movement, best for public and warehouse.

Safety & Security:
MCMS: Standard, Motor Current Monitoring System detect resistance and automatically stop the movement of the shelving system. MCMS has built-in 9 level and fully adjustable to ensure settings meet safe and reliable operational requirements.

Photo Safety Sensor: Optional, Stops movement and Reverse when a light beam in the aisle is interrupted

Aisle Entry Safety Sensor: Optional,Stops movement and Reverse when a light beam in the aisle entry interrupted.

Movement Detection Sensor: Optional , SDA™ SMART DISTANCE ARRAY

Passive Safety: Standard,Forces a user to check an aisle before opening another aisle. This safety feature forces the user to look in the opened aisle before another aisle can be opened. After any movement within a section of mobiles only the STOP icon on the LCD will actived on both sides of the aisle(s) created. The aisle(s) have to be cleared by touching the activated STOP icons (within 5 seconds - this time is adjustable;) to be able to open another aisle in that section Doing this, the user is forced to look into the current aisle(s) and will notice if another person is present in an aisle. After clearing the current aisle(s) a new aisle button has to be touched within 10 seconds (this time is adjustable;)When the system is turned on for the first time, the passive safety feature can be activated or de-activated with the Base Control Unit by the authorised system admin.

Emergency Stop: Standard,To stop the movement, in case a wrong aisle is selected or somebody is still present in another aisle, just touch any carriages STOP icon on the LCD panel.Before you are able to start the movement of any other mobile, you have to reset the stop function by touching the STOP icon once again.

Motor Drive Timeout: Standard

Motor Over Current Protection: Standard

Logic Input for Additional Safety Systems:Standard

TECHNICAL FEATURES & SPECIFICATIONS

Security certificates: CE

Security - Aisle Locks:

PIN-Code Access Control: Standard, PIN-CODE Access Programmable PIN-code control with Wifi Base Unit Controller LCD screen may restrict the access to specific aisles or the entire system. Audit entries can be logged and can be easily and effortlessly viewed over wireless connected Tablet PC via Tesla developed Option SLink remote control & monitoring software.

RF-ID-Card Access Control: Optional, RF-ID Card Reader Acess with a maximum of 1024 unique card codes.Card authorization may limit access to aisles..Card reader authorization is a feature available as an additional purchase. For enhanced security, Card reader authorization must be configurable to limit access to aisles. Up to one RF-ID card reader per SmartDrive Control. The card reader is up to 1024-bit card capable. Tesla provided card(s) are available. Customer card compatibility must be verified by Tesla.

Adjusting the Mobile Base Stopping Distance: Standard,The spacing between closed carriages is easily adjustable. The clearance can also be programmed using the PIN-code control This adjustability feature allows individualized necessary clearance to accommodate and protect objects that are overhanging the shelves and better ventilation in for instance a system with exceptionally vulnerable goods, the stopping distance between two bases can be adjusted. Each carrier can be programmed to stop at any distance up to ± 250 mm away from an adjacent mobile or the wall.

Remote Control & Monitoring : Optional; Remote Control , Log Access ,Settings and Configuration Windows software SLink Option. Grants administrators and/or users the option to operate the system over the Wireless connected Tablet PC without having to physically touch the control.

Productivity & Efficiency : More efficient than a mechanical or manual mobile storage system, **SmartDrive** is a time-saver as well as a cost-saver

Programmable Movements : Standard, following automatic moves are built -in

Priority Aisle

Auto-Closing/Security Park

Auto-Spacing/Ventilation Park / Night Mode

Priority Aisle: Users can increase their efficiency by configuring a specific priority aisle. While accessing an infrequently used aisle, **SmartDrive™** automatically repositions the system to your desired predetermined aisle. The most frequently utilized aisle will be preset to reopen automatically for the next users. This ensures quick access to your common stored materials. Program the priority aisle automatic feature with the carriage & aisle settings in the Wifi Base Controller Unit .

Auto-Closing/Security Park: Program your system to automatically close all aisles and lock once a user exits an aisle, or after a preconfigured period of inactivity. Configure your system to close all aisles and lock at a specific time.Program the security park automatic feature with the security park settings in the Wifi Base Controller Unit

Auto-Spacing/Ventilation Park / Night Mode: You can program your system to equally space all aisles. Ventilate your precious stored materials whenever you want at predetermined times. Program the night mode settings automatic feature with the Wifi Base Controller Unit.

Date & Time: Standard, You can program your system Date & Time for monitoring user activity and several purposses

Demo Mode: Standard, You can program your system to demo mode for auto moving left to right with predetermined times for testing system and the exhibitions purposes.

Specifications subject to change.

SmartDrive   SmartAisle
The Power Of Mobile Shelving

WiFi ENABLED

24V DC

TOUCH SCREEN