

V0.3



Rev.0

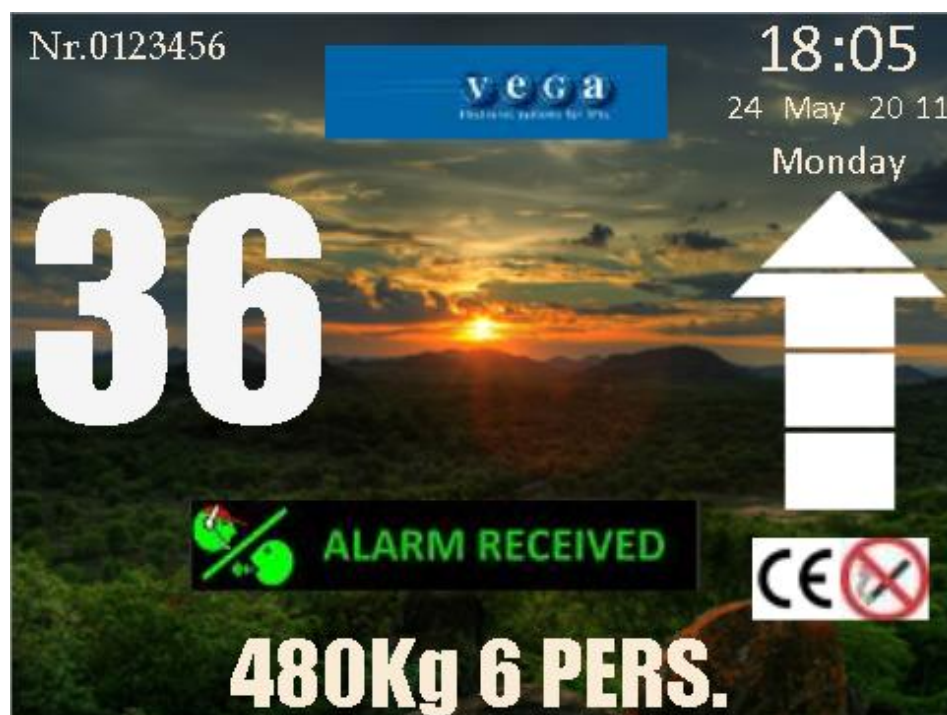
Date:8/3/2012

Hardware:rev1.2

Firmware: V0.3

DISPLAY TFT 5.7"

USER MANUAL AND PROGRAMMING



OS: Windows Xp

CONTENTS:

Technical Data	3
Connection Scheme.....	4
Assembly Kit.....	8
Assembly Guide	8
Configuration Software: TFT display editor.....	9
Back Light.....	11
Gong.....	12
Screen saver mode (index 05-06).....	12
Floor	13
DATE-WEEKDAY-TIME	13
Lift state	14
Logo CE	15
Customer Logo.....	15
Serial number	16
Capacity	16
Temperature	16
2. Immagini di sfondo Tab	17
3. Floor table e immagini Tab	18
4. Esporta sulla SD-card Tab	19
DISPLAY TFT 5.7" MENU	4
ERROR LIST	20

Manuale display TFT 5.7" programmable

Rev. n. 0 hardware ver1.2 frw 0.3 software v2.0.1.2

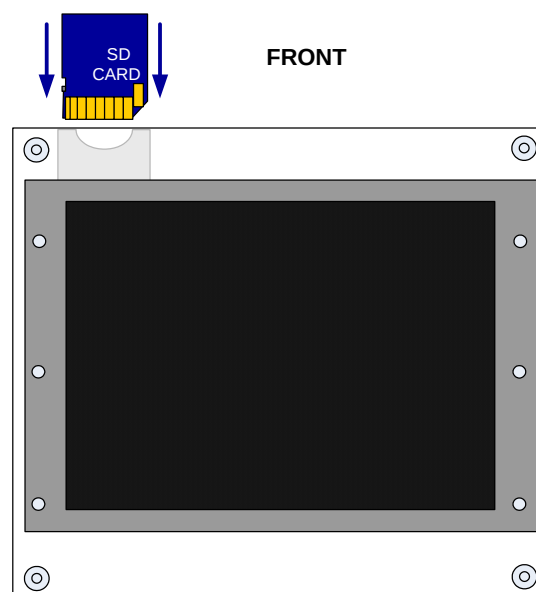
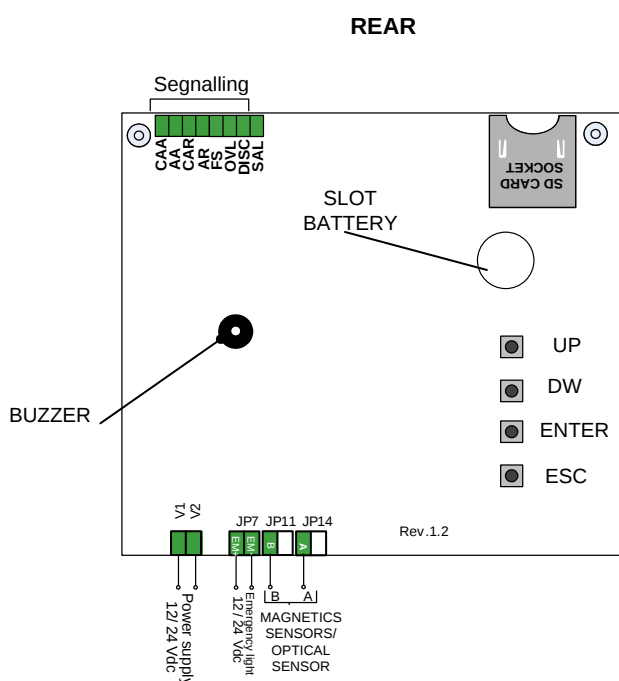
Date: 08/03/2012

For a correct use of the card, please follow this procedure :

1. Check that the packaging is intact. If it isn't, ask for the warranty to be activated according to the following warranty conditions.
2. When opening the packaging, avoid sharp objects, such as scissors or cutters because they can damage the card.
3. Handle the card only with a ground strip- the electrostatic charges can damage the card and compromise its life.

Technical Data

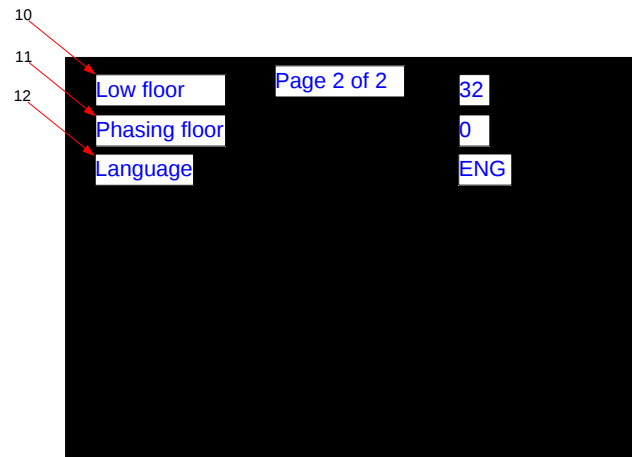
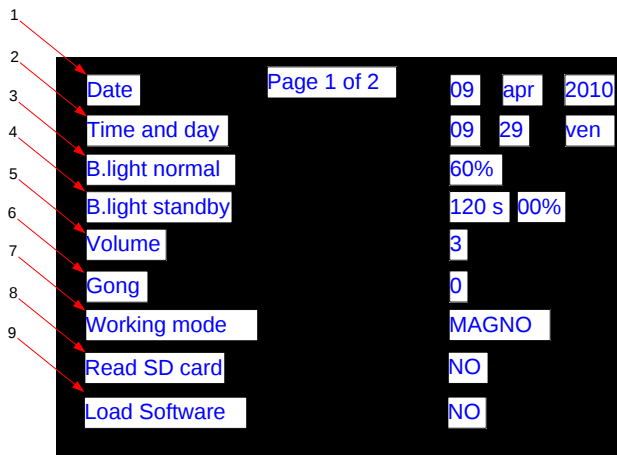
Screen	5.7"
Resolution	320xRGBx240 QWGA
Viewing area (WxH)	115.2x86.4 [mm]
Color	64K
Pixel (WxH)	0.36x0.36 [mm]
Number of floor	59 (-4→54)
Power Supply	12÷24 VDC ±10%
Type of sensors	Normally close or normally open
Max. power supply	5W
Speed of plant	Min 0,4 max 1.2m/s
Input activation	Common cathode (common negative)
Temperature working range	From -20°C to +70°C
Storage temperature range	From -30°C to +80°C
Working mode	DEMO-Magnetics sensors-Optical sensor
Specific inputs	Overload, out of service, alarm, acknowledged alarm signal, emergency, gong.
SD-CARD	From 512 MB up to 2GB, format FAT-32
Image format	.bmp or .jpeg



DISPLAY TFT 5.7" MENU

Turning on the TFT 5.7" display, the firmware version appears bottom right on the display.
The management of the menu on the display is supported starting from firmware version 0.2
To enter the menu press the "ENTER" pushbutton.

-  **DW** Down / Decrease Value
-  **UP** UP / Increase Value
-  **ENTER** Enter the Menu / Confirm Data
-  **ESC** Esc



- 1.**Date** : allows to change the date (day/month /year);
- 2.**Time and day**: allows to change the time and the day of week;
- 3.**B.light normal**: allows to change the brightness of the display's backlight (00%= Backlight off , 100%= maximum brightness).
- 4.**B.light standby**: allows to set the time out to enter the standby mode and the brightness of the backlight in standby mode (00% = display off);
- 5.**Volume**: allows to change the buzzer's volume (0 = buzzer disabled);
- 6.**Gong**: allows to choose the type of gong;
- 7.**Working mode**: allows to choose the operating mode of the display (see working mode, index 02).

NOTE: the field "8" and "9" work only with SD-CARD (min 512MB up to 2GB)inserted into the slot.

Value	Note
MAGNO	Magnetics sensors Normal open
MAGNF	Magnetics sensors Normal close
OPTOO	Optic sensor Normal open
OPTOF	Optic sensor Normal close
CAN/SER	Not used
DEMO	Simulation mode

8.**ReadSD card**: setting "SI" the display load the project that was previously exported in the SD-card.

9.**Cload Software**: setting "SI" will start the firmware update of the TFT Display.

Before starting with the firmware upgrade you must be sure that in the SD-card there is the file "DsplTft.hex".

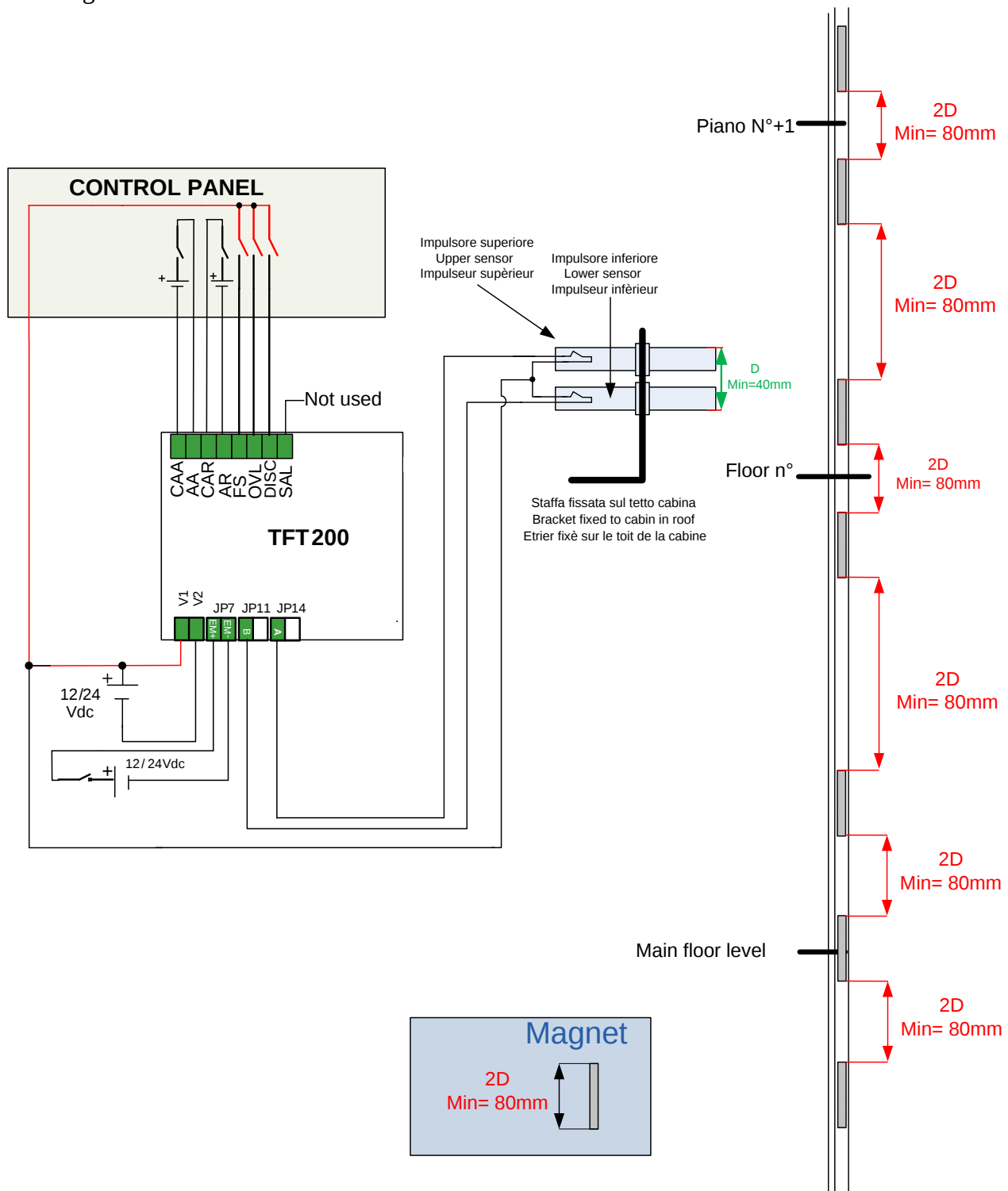
10.**low floor**: Allows to set a low floor, 180mm<X<400mm (set the first floor of the couple)

11. **Phasing floor**. Allows to choose the phasing floor (0 default)

12.**Language**.It's possible set the menu language.

MAGNETICS SENSORS

Working mode: **MAGNO-MAGNC**



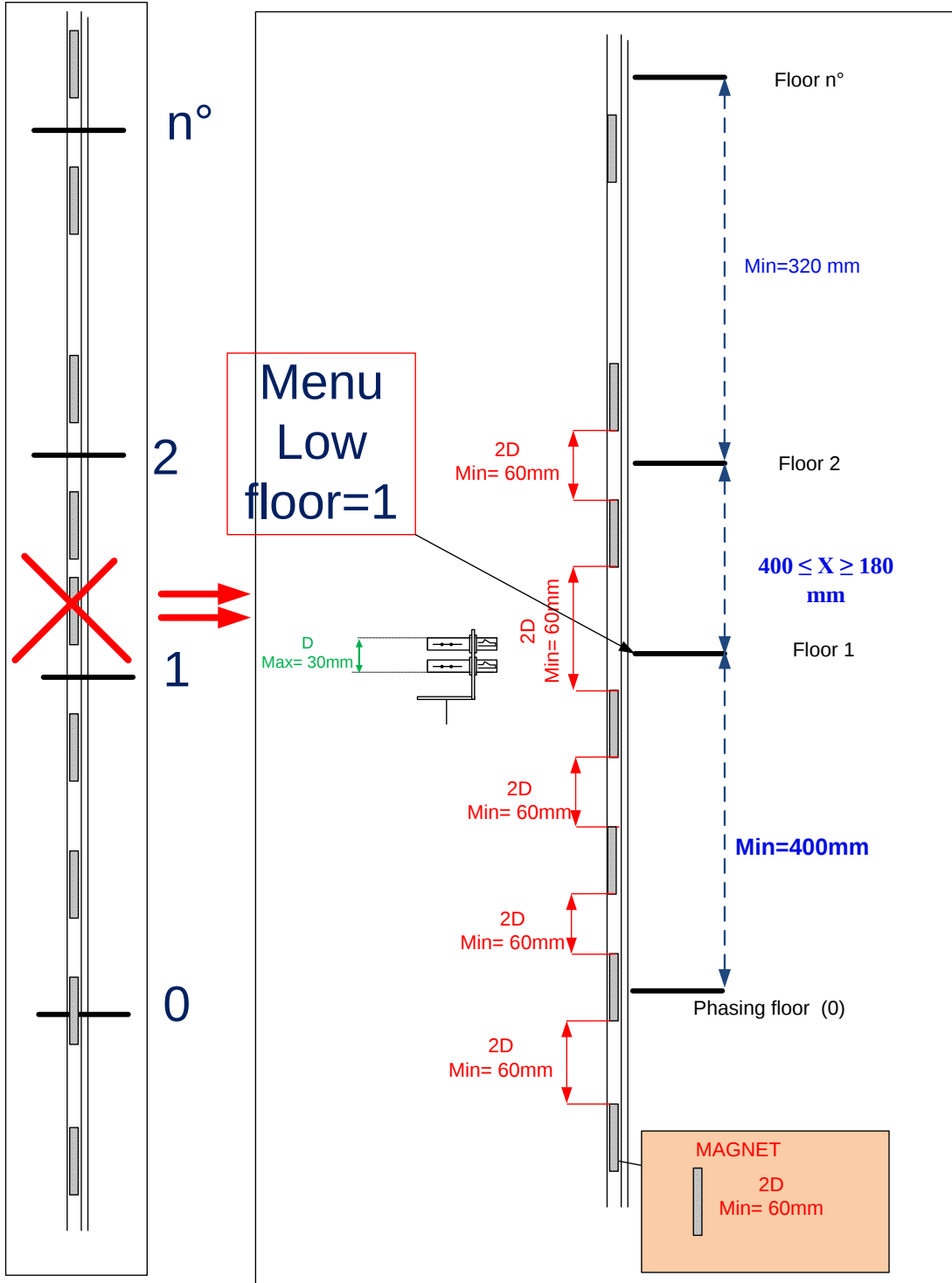
PIN	DESCRIPTION
SAL	Not used
DISC	GONG
OVL	Overload
FS	Out of service
AR	Alarm signal received (+)
CAR	Alarm signal received (-)
AA	Alarm (+)
CAA	Alarm (-)

PIN	DESCRIPTION
V1	Power supply (+)
V2	Power supply (-)
JP7 EM+	Emergency light (+)
JP7 EM-	Emergency light (-)
JP11	Sensor B (inferior)
JP14	Sensor A(superior)

CONFIGURATION OF A FLOOR VERY SHORT [180mm<X<400mm]

NORMAL CONFIGURATION

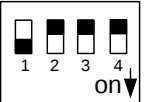
LOW FLOOR BETWEEN 1 AND 2

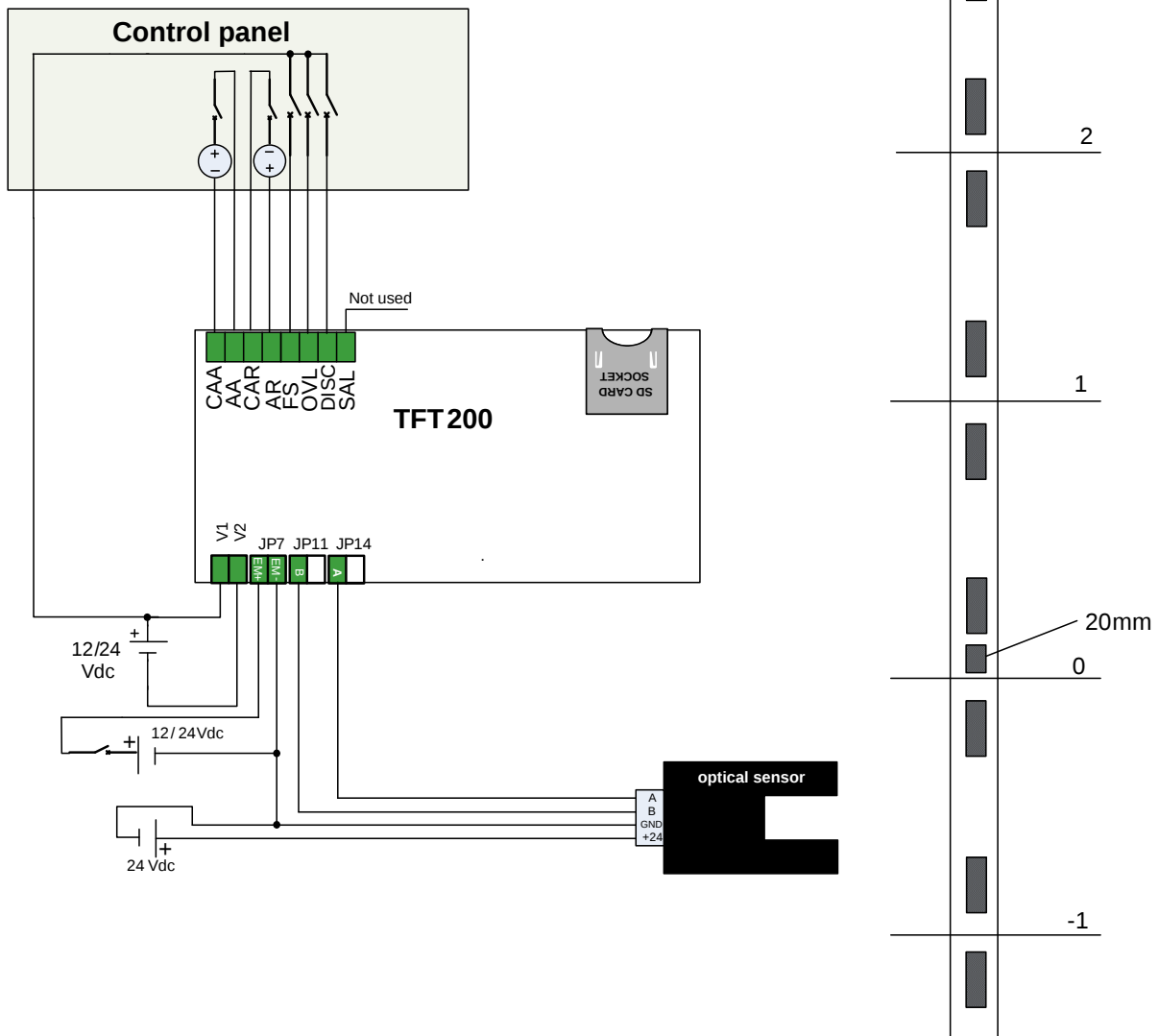


OPTICAL SENSOR

Working mode: **OPTOO-OPTOF**

OPTICAL SENSOR CONFIGURATION

NORMAL CLOSE	NORMAL OPEN
NC→ Set working mode"OPTOF"	NO→ Set working mode"OPTOO"
Modo "Normal": DIP SWITCHES: (1 ON;2,3,4, OFF)	Modo "ISO": DIP SWITCHES: (3 ON;1,2,4, OFF)
	



PIN	DESCRIPTION
SAL	Not used
DISC	GONG
OVL	Overload
FS	Out of service
AR	Alarm signal received (+)
CAR	Alarm signal received (-)
AA	Alarm (+)
CAA	Alarm (-)

PIN	DESCRIPTION
V1	Power supply (+)
V2	Power supply (-)
JP7 EM+	Emergency light (+)
JP7 EM-	Emergency light (-)
JP11	Sensor B (inferior)
JP14	Sensor A(superior)

SIGNALLING:

 ALARM	 ALARM	Alarm active (AA-CAA)
 ALARM RECEIVED	 ALARM RECEIVED	Alarm received (AR-CAR)
 OUT OF SERVICE	 OUT OF SERVICE	Out of order (FS)
 OVERLOAD	 OVERLOAD	Overload (OVL)
EMERGENZCY	EMERGENZCY	Emergency light (JP7)

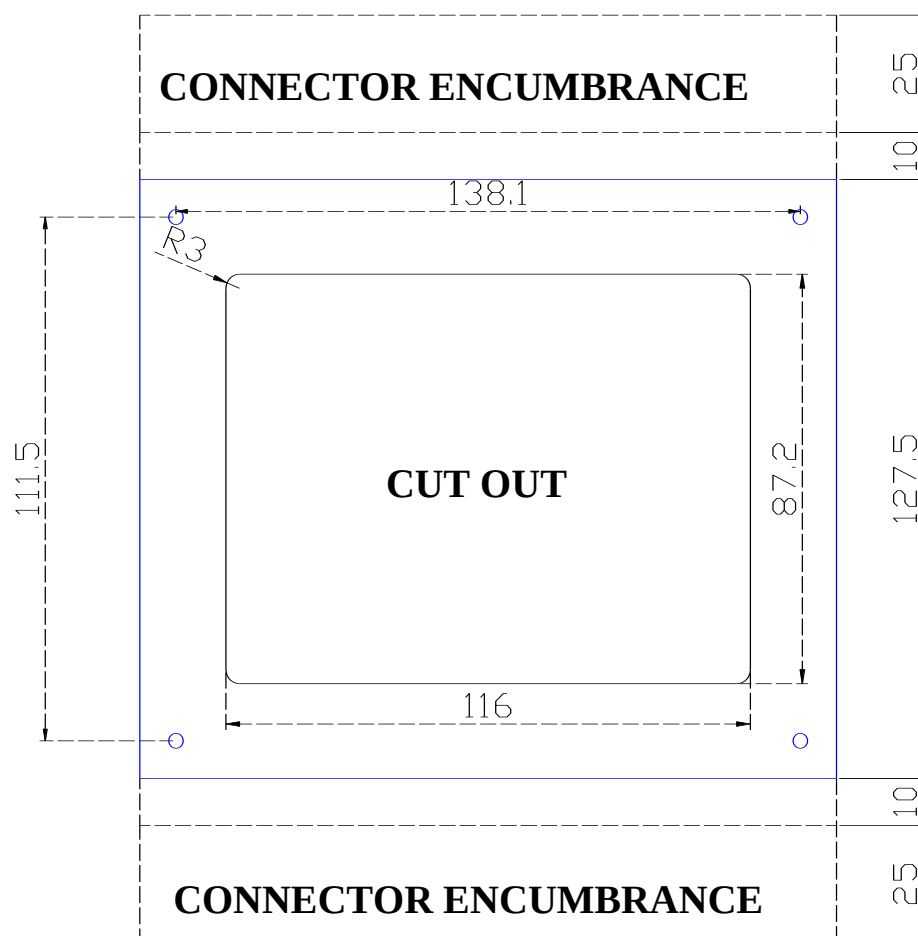
Assembly Kit

CODE: KIT-FIS-TFT5.7"

- Plexiglass glass
- 4 spacers
- 4 hexagonal self-blocking nuts

Assembly Guide

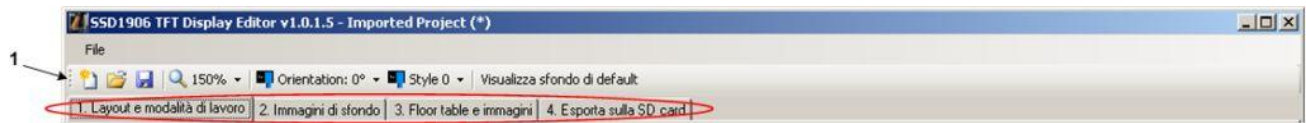
- Insert the glass
- Insert the four spacers in the screws
- Insert the TFT display. Please, be careful to the assembly direction (see image 1)
- Fix the display with the self-blocking nuts



Configuration Software: TFT display editor

Recommended operating system: Windows XP

The software is tab-structured for an easy and quick navigation.



The software has 4 tabs: 1. Layout and working mode, 2. BackGround Images, 3. Floor Table and Images, 4. Export on the SD-CARD.

In the menu bar[1] are available the following buttons:



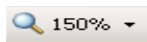
New Project: allows to create a new project with the “default” settings.



Open Project: allows to open a project which has already been saved (.ssd file);



Save Project: allows to save the project (.ssd file);



Zoom: allow to enlarge or shrink the view of the print layout;



Orientation:

0° (horizontal)



90° (vertical)



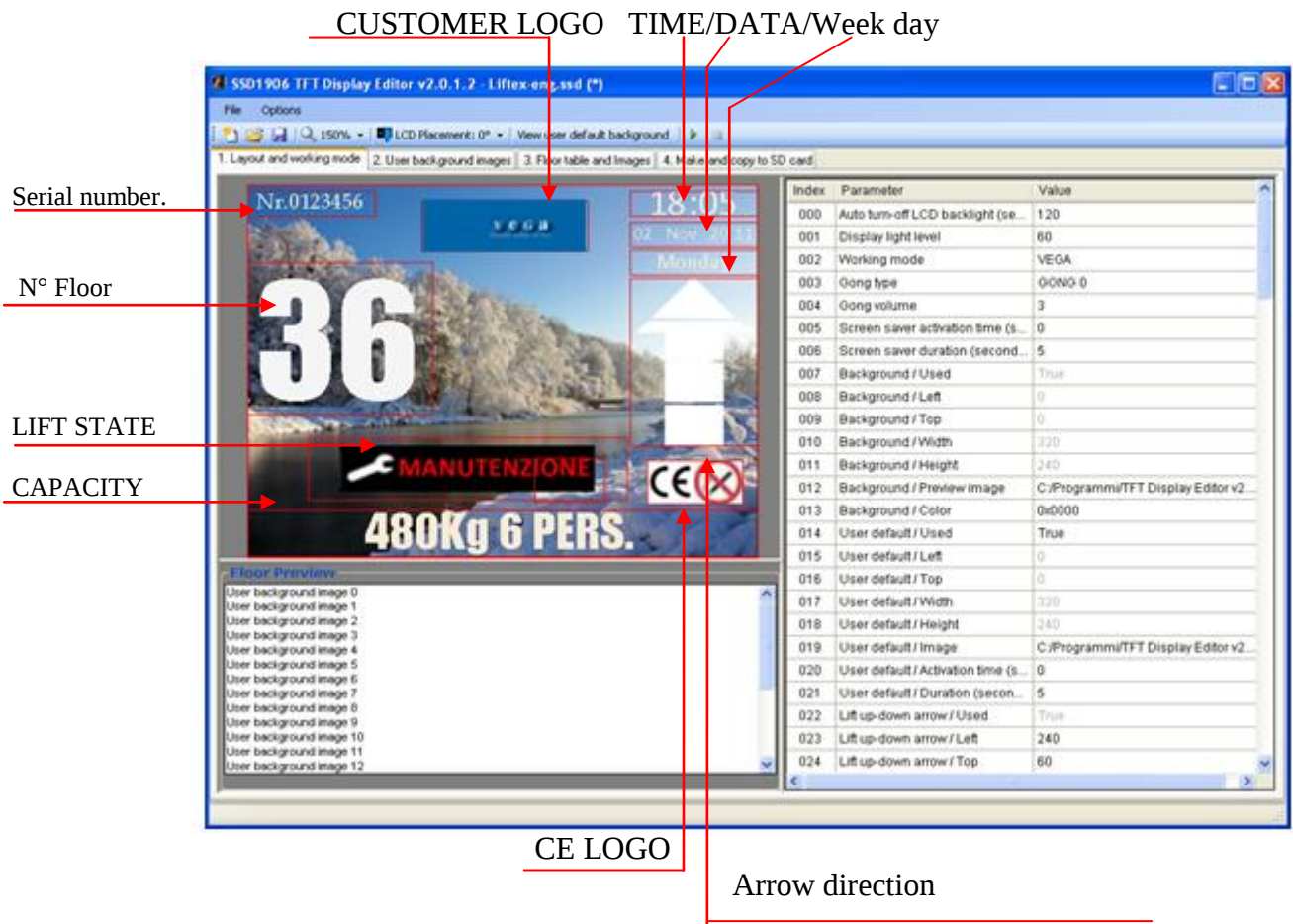
Visualizza sfondo di default

NOT USED.

1. Layout and Working Mode

This is the main tab where it is possible to:

- view the screen layout of the display, the type of GONG amd the volume;
- rearrange the position of the fields of the screen: lift state, serial number, floor, CE logo, capacity, weekday time and date; choose the logo (Customer logo);
- choose the lift state icons (Out of Service, Overload, Alarm Active, Alarm Received, emergency);
- choose the arrows icons (up and down icons);
- choose the font and color of the floor number, day of the week, date and time, lift serial number, capacity;



It is possible to change the position of each icon of the display holding the left mouse button on an icon and moving the mouse. This is not possible for the “capacity” field that is fixed and can not be moved.

PROGRAMMING

Item	Index
Back light	00~01
gong	03~04
Screen saver- NOT USED!	05~26 NOT USED!
Lift Up/Down arrow	27~35
Floor	36~42
Date-weekday-Time	43~84
Lift state	85~107
CE logo	108~113
Customer logo	114~119
Serial number	120~127
Capacity	128~135
Temperature NOT USED!	136~143 NOT USED!

Back Light

(index 00-01)

It is possible to program the auto-off time of the back light (index 00). To disable this feature set the value '0' to adress '00' (the display will stay always lit).

Index	Item	Value	Note
00	Auto turn off lcd back light second	120	Auto turn off time of the display back light (in seconds). 0 = feature disabled
01	Display light level	60	Light intensity of the display.

Gong

(index 03-04)

Index	Item	Value	Note
03	Gong type	Gong 0	Type of gong [0,1,2]
04	Gong volume	3	Volume of the display gong [0=disattivo, 5=vol. max]

Screen saver mode

(index 05-06)

NOT USED!

Colore fixed background and capacity

(index 12)

Index	Item	Value	Note
12	Fixed background color	0x0000 (black)	Change the background colour of the fields “Fixed background” and “capacity”.

Default Background image

(index 18-26)

NOT USED!

Lift Up/Down arrows

(index 28~35)

Index	Item	Value	Note
28	Lift Up Down arrow left	0	X Position
29	Lift Up Down arrow top	0	Y Position
30	Lift Up Down arrow width	80 (pixel)	Width
31	Lift Up Down arrow height	68 (pixel)	Height
32	Lift Up arrow image.0	File path	File path for the up arrow image 0
33	Lift Up arrow image.1	File path	File path for the up arrow image 1
34	Lift Down arrow image.0	File path	File path for the down arrow image 0
35	Lift Down arrow image.1	File path	File path for the down arrow image 1

The indexes 28 and 29 allow to modify the position of the images of the arrows within the field “fixed used backgroud” (black background). The indexes 30 and 31 allow to modify the sizes of the images of the arrows.

For each arrow (up and down arrow) can be used two images (index 32-33 e 34-35) which alternate during the normal operation. For example, in up direction, you will see the image loaded at index 32 alternating with the image loaded at index 33.

Floor
(index 36~42)

Index	Item	Value	Note
36	Floor text font	Font type	Font Type - size
37	Floor text font color	0XF5F5F5 (Bianco)	Colour
38	Floor text left	0	X Position
39	Floor text top	100	Y Position
40	Floor text width	80	Width
41	Floor text height	60	Height
42	Floor text preview text	36	Number of floor showed in the preview

NOTE: the software works with .bmp and .jpg images.

DATE-WEEKDAY-TIME
(index 43~84)

Index	Item	Value	Note
42	Floor text preview text	36	Number of floor preview
43	Date text used	true	True = on false = off
44	Date text style	27-gen-2010	Date format: • gg/mm/aaaa • aaaa/mm/gg • mm/gg
45	Date text font	Font name..size...	Date's Font type-style-size
46	Date text font color	0FAEBD7 (Bianco)	Date's Font Colour
47	Date text left	0	X Position
48	Date text top	127	Y Position
49	Date text width	80	Width
50	Date text height	16	Height
51	Date text January	Gen	Allow to change the 3 characters indicating the month (Max 3 characters for each month)
52	Date text February	Feb	
53	Date text March	Mar	
54	Date text April	Apr	
55	Date text May	Mag	
56	Date text June	Giu	
57	Date text July	Lug	
58	Date text August	Ago	
59	Date text September	Set	
60	Date text October	Ott	

61	Date text November	Nov	
62	Date text Dicember	Dic	
63	Weekday text used	True	True = weekday visualization enabled False = weekday visualization disabled
64	Weekday text font	Font name..size..	Weekday Font type-style-size
65	Weekday text font color	0FAEBD7 (Bianco)	Weekday Font Colour
66	Weekday text left left	0	X Position
67	Weekday text top	165	Y Position
68	Weekday text width	80	Width
69	Weekday text height	16	Height
70	Weekday text monday	Lunedì	The text indicating the day, can be changed with a new one. For example, writing 'MON' at index 58 makes the display show the string 'MON' every monday.
71	Weekday text tuesday	Martedì	
72	Weekday text wednsday	Mercoledì	
73	Weekday text thursday	Giovedì	
74	Weekday text friday	Venerdì	
75	Weekday text saturday	Sabato	
76	Weekday text sunday	Domenica	
77	Time text used	True	True = Time enabled False= Time disabled
78	Time text font	Font name..size..	Time's Font type – style - size
79	Time text font color	0FAEBD7 (Bianco)	Time's Font Colour
80	Time text left	20	X Position
81	Time text top	148	Y position
82	Time text width	40	Width
83	Time text height	16	Height
84	Time text preview	00:00	At the startup, the software loads the current time of the PC.

Lift state
(index 85~107)

Index	Item	Value	Note
85	Lift state used	true	True=on false=off
86	Lift state left	116	X Position
87	Lift state top	196	Y Position
88	Lift state width	176	Width
89	Lift state height	34	Height
90	Lift state maintain image 0	NOT USED!	NOT USED!
91	Lift state maintain image 1	NOT USED!	NOT USED!
92	Lift state full load image 0	NOT USED!	NOT USED!
93	Lift state full load image 1	NOT USED!	NOT USED!
94	Lift state out of order image.0	File path	Out of Order icon 0
95	Lift state out of order image.1	File path	Out of Order icon 1
96	Lift state overload image.0	File path	Overload icon 0

97	Lift state overload image.1	File path	Overload icon 1
98	Lift state fire image.0	NOT USED!	NOT USED!
99	Lift state fire image.1	NOT USED!	NOT USED!
100	Lift state alarm active image.0	File path	Alarm Active icon 0
101	Lift state alarm active image.1	File path	Alarm Active icon 1
102	Lift state alarm received image.0	File path	Alarm Received icon 0
103	Lift state alarm received image.1	File path	Alarm Received icon 1
104	Lift state power failure image.0	File path	Power Failure icon 0
105	Lift state power failure image.1	File path	Power Failure icon 1
106	Lift state VIP failure image.0	NOT USED!	NOT USED!
107	Lift state VIP failure image.1	NOT USED!	NOT USED!

NOTE: the software works with .bmp and .jpg images.

Logo CE

(index 108~113)

Index	Item	Value	Note
108	CE logo used	True	True=on false=off
109	CE logo left	0	X Position
110	CE logo top	208	Y Position
111	CE logo width	32	Width
112	CE logo height	32	Height
113	CE logo image	File path	Path of CE mark image

Customer Logo

(index 114~119)

Index	Item	Value	Note
114	Customer logo used	True	True=on false=off
115	Customer logo left	116	X Position
116	Customer logo top	0	Y Position
117	Customer logo width	176	Width
118	Customer logo height	40	Height
119	Customer logo image	File path	Path of logo image

Serial number

(index 120~127)

Index	Item	Value	Note
120	Serial number used	True	True=on false=off
121	Serial number font	Font name..size.	Font type – style - size
122	Serial number font color	0FAEBD7(Bianco)	Serial Number Font Colour
123	Serial number left	0	X Position
124	Serial number top	188	Y Position
125	Serial number width	80	Width
126	Serial number height	16	Height
127	Serial number text	Nr.0123456	System Serial Number

Capacity

(index 128~135)

Index	Item	Value	Note
128	Capacity used	True	True=on false=off
129	Capacity font	Font name..size.	Capacity Font type – style - size
130	Capacity font color	0FAEBD7(Bianco)	Capacity Font Colour
135	Capacity text	640 KG 6 PERS.	Capacity of the system

Temperature

(index 136~142)

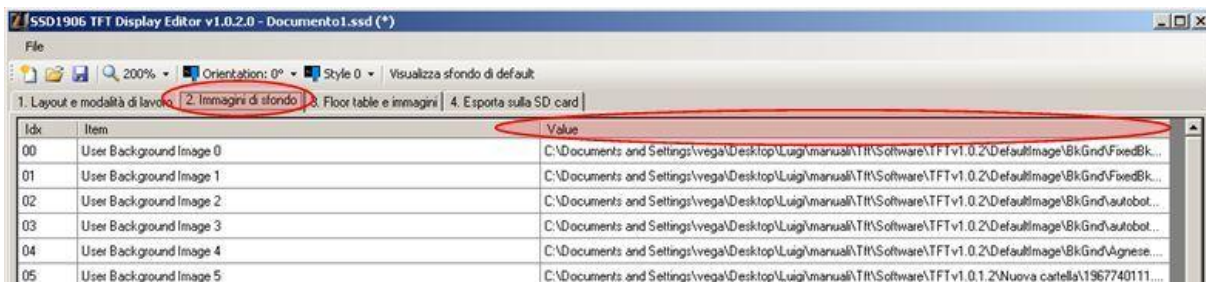
NOT USED!

2. User backgroundf images

In Tab 2, “immagini di sfondo” you can select and load the images which will be visualized at each floor.

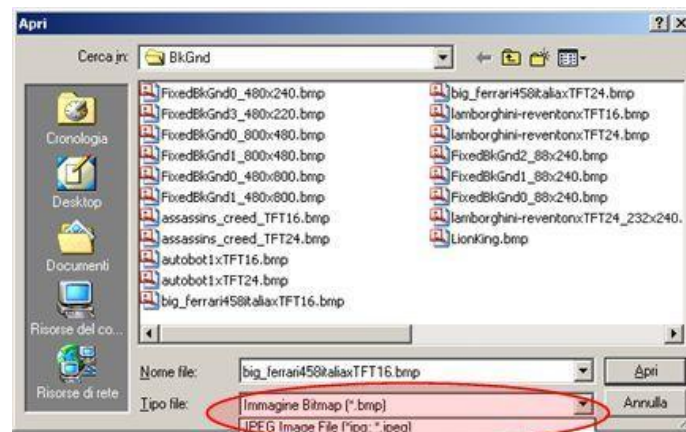
Pay attention please to the file type of the images that you want to use: the display works with .bmp and .jpg images.

To improve the quality of the image visualization, we suggest the use of square images (for example 700x700 pixel).



Double-clicking with the left mouse button on the field 'value' of the table, opens a window that allows to select the image to load.

Select the format of the image (.bmp or .jpg), select the desired image and click the 'Apri' button.

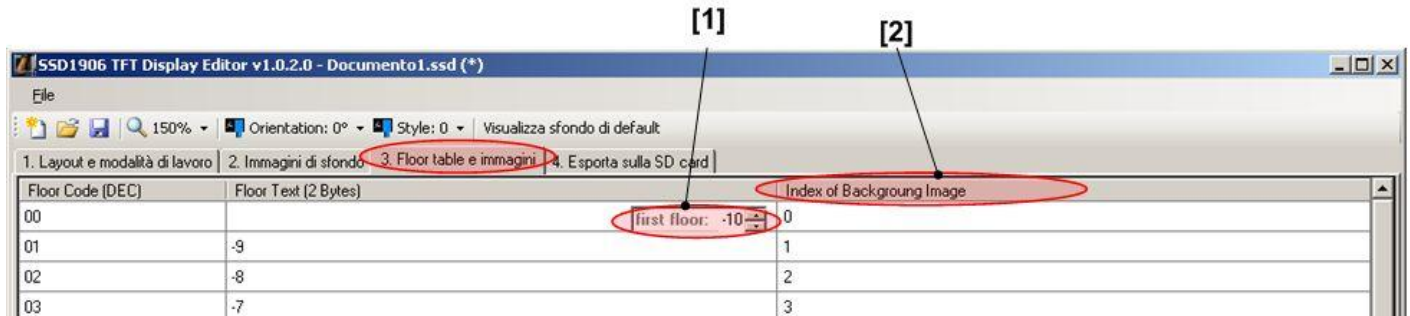


NOTA: the TFT 5.7" display supports up to 35 images.

3. Floor table and images

Tab 3 “floor table e immagini” allows to associate the background images (loaded in tab 2) to several floors. Double-Clicking with the left mouse button under the column “index of background image” [2] fig.10, will open a drop-down window where you can choose the desired background for that floor, among those previously loaded (ref. ch. 2).

In the first row of the table, there is a field [1] fig.10 where it is possible to set the number that the display have to show for the first floor of the system, the other floor will be automatically recalculated. For example, if you want the display shows '-1' for the first floor of the system, then



select the value '-1' in the field [1] shown.

Associate a character to a floor

Suppose we want to see the characters “GA” to floor '-1'.

Just Double click with the left mouse button on the column “Floor text (2 bytes)” in the row corresponding to the desired floor, in our case '-1', and write the desired characters (max 2 characters).

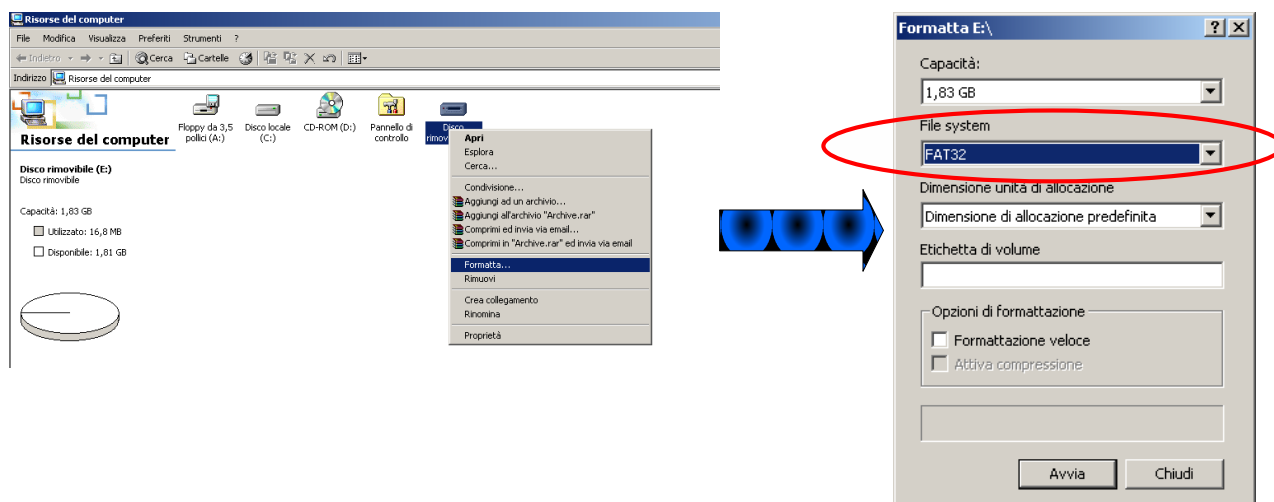


4. Make and copy to SD-card

The TFT 5.7” supports SD-CARD min 512MB up to 2 GB of memory.

NOTE: Format the SD-CARD with FAT 32 file system.

NOTE: The TFT Display work only with “exported” project. Once the project is finished and you want to load it on the SD-CARD for the TFT, you have to “export” it and not “save” it.

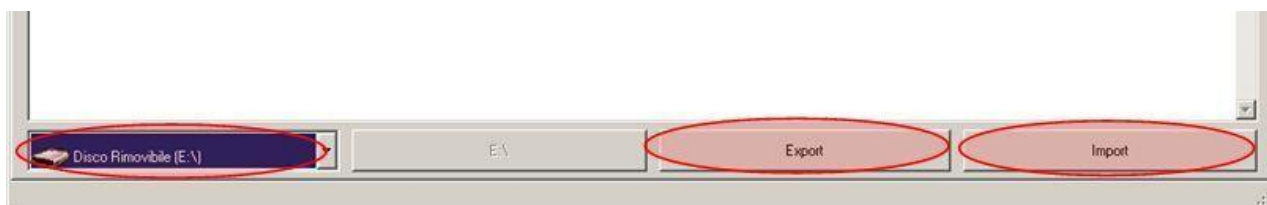


In Tab “4.Esporta sulla SD-Card”, you can export your project directly to the SD-Card or choose a different path.



To start the export procedure of the project on SD-CARD:

- Select the path of the SD-CARD;
- Click on the button “Export” .



With the “Import” button you can load a project that was previously exported on the SD-CARD.

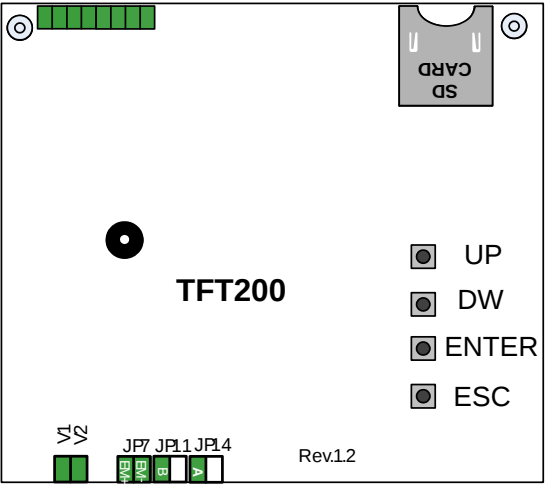
ERROR LIST

Error	PROBABLE CAUSE
1	The file Config.ini is not present in the SD-card
2	The lenght of the Config.ini file is not correct
Default Background...	
4	...missing parameters
5	...wrong activation time
6	...wrong time period
7	...errors in the coordinates
8	...image not available
9	...error in the image file
Fixed background (black)...	
10	...missing parameters
11	...errors in the coordinates
Floor's background...	
14	...missing parameters
15	...'used' field set to False
16	...errors in the coordinates
17	...image not available
Floor's number...	
20	...missing parameters
21	...errors in the coordinates
22	...images not available
23	...filename too long
24	...not enough images
Images Table - Floor...	
26	...missing parameters
27	...error in the 'first floor' field
28	...incomplete table
Up / Down Arrows...	
30	...missing parameters
31	...coordinate errors
32	...Up arrow image error
33	...Down arrow image error
Alarm and status...	
35	...missing parameters
36	...errors in the coordinates
37	...error in the Overload image file
38	...error in the Full Load image file
39	...error in the Out of Service image file
40	...error in the Alarm Active image file
41	...error in the Alarm Received image file
42	...error in the Emergency image file
43	...error in the Fire image file
44	...error in the Maintenece image file
45	...error in theVIP image file

Error	PROBABLE CAUSE
Capacity Maxim load of the system...	
50	...missing parameters
51	...errors in the coordinates
52	...image not available
53	...error in the image file
CE Logo...	
55	...missing parameters
56	...errors in the coordinates
57	...image not available
58	...error in the image file
Customer Logo...	
60	...missing parameters
61	...errors in the coordinates
62	...image not available
63	...error in the image file
Serial Number...	
65	...missing parameters
66	...errors in the coordinates
67	...image not available
68	...error in the image file
DATA...	
70	...missing parameters
71	...errors in the coordinates
72	...style not available
73	...style is not valid
74	...images not available
75	...error in the numbers
76	...error in the separators
77	...error in the month
Time...	
80	...missing parameters
81	...errors in the coordinates
82	...images not available
83	...error in the numbers
84	...error in the separators
Day of the Week...	
86	...missing parameters
87	...errors in the coordinates
88	...images not available
89	...error in the image file
Temperature...	
90	...missing parameters
91	...errors in the coordinates
92	...images not available
93	...error in the numbers
94	...error in the separators

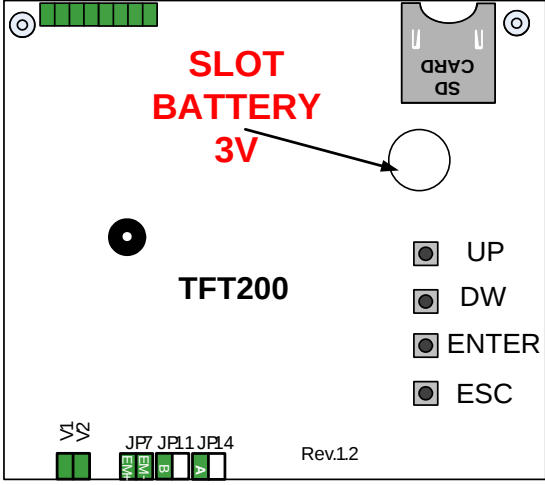
History of version:

VERSION
FIRMWARE:V0.2



NOTE: If a power failure occurs, the calendar (Date and Time) will be reset.

VERSION
FIRMWARE:V0.3



Calendar ok!



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