

ILLUMINATED WINDPRO WITH LED

User Manual





*This Manual has the notes and instructions regarding how to use your product. For your safety and service, please read this manual carefully before using your product. Please keep this manual somewhere within easy reach, in case of further need.

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WindPro with LED

- ▶ WindPro LED is a contemporary unique solution for an illuminated pavement sign with battery. The front view with a flat surface gives a trendy and esthetic look. Chrome coated Zamak alloy provides, mitered but yet, soft finish corners.



- ▶ The front cover is from 2mm UV resistant Polycarbonate. It is well known for its impact resistance and long term use in the outdoor conditions.
- ▶ The border framing / passpartout effect is given by 40 mm silk screen printing.
- ▶ The backing is from double 4mm acrylic. It is laser processed and dotted for a uniform and homogeneous light diffusion.



- ▶ LEDs are directly applied to the frame. Osram branded LEDs are used.
- ▶ The frame itself is 100% waterproof. It is not snap open but with the elastic rope hinges. The covers of frames can be opened and secured by 7 locks each Frame (in total 14 locks on the frame). This provides ease of poster installation. The installation of poster is very simple by inserting the poster upwards, into the plastic clamps. The user can change the visual by his/her own without any help needed.



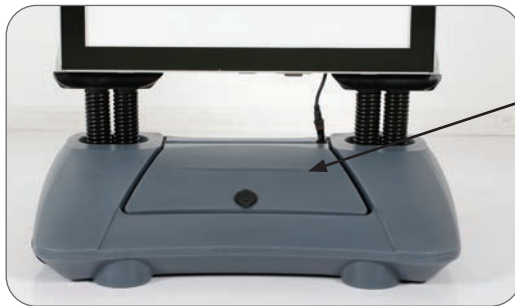
- ▶ The base is designed and developed to fit such a unique product, there are many unique features worth to mention. Weight of water filled base is 40kg. This new base is totally a brand new design with its flat look . Water can flow away over the surface easily.



WARNING!

Do not keep the base in water more than 10 cm as it may let the water in battery compartment.

- ▶ The unit can operate either with battery or with battery charger which functions as power supply as well. When battery charger is used to operate Illuminated WindPro LED, charger is connected to frame and plug into electricity source.



- ▶ Battery is hidden and not visible from outside. The battery compartment is in the base and waterproof because of its unique rubber sealed lockable cover. Water around the cover can easily flow away via drainage holes. The compartment is easily secured by lock. When user opens the cover they will see the label with remarks and indications on the battery.

- The battery itself is also a very ingenious and unique power supply solution. It is a LiFePO4 rechargeable, 25,6 Volt DC, 10 A battery. It is widely known for its high durability as well as unrivalled reliability. Output is DC as all batteries. Operation is between -10 / +50 degrees Celsius. (Only if it is needed. But products with batteries are in general not recommended for use in minus Celsius degrees as it shortens battery life.)

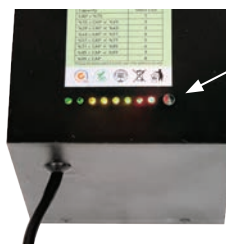


- It has two brightness level. The duration of the battery will depend on the lighting mode used:
Bright Mode: approx. 8 hours (1000 - 1200 Lux)
Energy Saving Mode: approx. 16 hours (650 - 700 Lux)
*This information is based on average temperature of 20°C (±3°).



The brightness level is adjusted by remote control. 2 remote controls are provided with the product. The one with green indicator is already set for use. Then second remote control is spare one in case the first one is lost or so.

- ▶ The battery will be shipped at full capacity. Before the delivery, it will be fully charged and discharged twice in the factory so that it will be ready for use with maximum capacity with a long lasting performance. Every battery are checked before leaving the factory. No sample or batch monitoring but 100% control is applied to ensure the quality.
- ▶ There is a digital LED indicator for battery level. It will change color from green to yellow and finally to red as the battery drains. But there is an excellent feature about this power supply. The user will never have a fade out effect in the lighting as the battery drains. The built in circuit will cut off the power automatically as the power will drain to an insufficient level to provide above mentioned brightness values.



Push the button
to see battery level.

- ▶ 5-6 hours necessary to fully charge the battery with a lifecycle of average 1500 charges.
- ▶ Product will be delivered with one battery included. It is recommended to have a second one in order to keep the power up while the former one is being charged.
- ▶ Battery cannot be recharged on the product; it has to be put out of the product and has to be recharged separately with charging unit. It should be charged indoor only.



SAFETY INSTRUCTIONS

When using Illuminated WindPro with LED, basic safety precautions should always be followed, including the following:
Battery Instructions:

- ▶ In case you observe abnormality on the battery, contact to your supplier.
- ▶ Store the battery full for long period of non-use. Otherwise the battery maybe out of use completely.
- ▶ Store the battery in room temperature of 23 degrees (+/-2)
- ▶ When used correct, battery can be rechargeable min 1500 times
- ▶ Working environment temperature should be between -10 to +50 degrees.
- ▶ Do not keep the battery in high temperature, water or in acid
- ▶ Avoid any damage on battery
- ▶ Do not touch or connect negative and positive pole cables.
In case of any connection, the battery will block off itself.
However it may still cause excess heat or chemical reaction.
- ▶ Use only its charger to charge the battery
- ▶ Time to charge battery is approximately 5-6 hours
- ▶ When battery is fully charged, remove from the charger.
Otherwise it may shorten the lifetime of battery
- ▶ When Illuminated WindPro with LED is not in use, remove the battery.
- ▶ Do not keep battery in microwave or under high pressure. This may result in damaging the battery or exposure of battery.
- ▶ Do not use the battery in case of any smoke, heat or any form of damage.
- ▶ If not used for 3 months, battery should be re-charged.

Charge	0 °C to +40 °C
De-charge	-10 °C to +50 °C
Storage (less than 30 days)	-20 °C to 0 °C
Storage (less than 90 days)	+23°C±2

SPECIFICATIONS

Battery Charge Indicator

- ▶ Do not hold the indicator button. It may result in malfunctioning of indicator

Capacity	Leds
$CAP < \%10$	1
$\%10 \leq CAP < \%20$	1
$\%20 \leq CAP < \%40$	1-3
$\%40 \leq CAP < \%60$	1-4
$\%60 \leq CAP < \%80$	1-6
$\%80 \leq CAP$	1-8



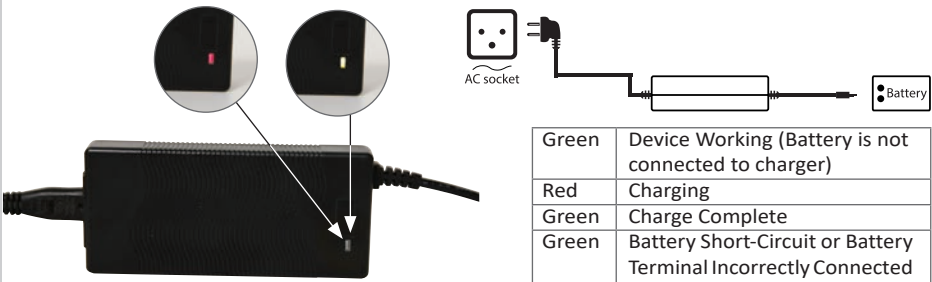
*Charge the battery every 3 months, even if the battery is not used.

Battery Charger Instructions

- ▶ Make sure battery connected to charger properly
- ▶ Lithium charger should only be used for the right battery provided by the manufacturer of WindPro with LED.
- ▶ Charger should only be used indoor and dry conditions
- ▶ Charger cannot be repaired. In case of any damage, it should not be used again to avoid malfunction the battery.
- ▶ Charger should be plug into regular electricity sockets. Charger has ability to adjust voltage

Use Instructions

1. Connect the battery into charger
2. Plug the battery into power socket. The battery indicator light will turn in red
3. Battery is fully charged when the indicator is green. Then first plug out the charger from socket and then remove the battery.



Green	Device Working (Battery is not connected to charger)
Red	Charging
Green	Charge Complete
Green	Battery Short-Circuit or Battery Terminal Incorrectly Connected

INSTRUCTION MANUAL

1. Assembly of Waterbase and Frame

Slide the springs of frame in the waterbase. Product should be leaned on its side and fixed with nuts at bottom as seen in photos.



After fixing is finished, product should be put in to its vertical position, then cable from frame and energy cable from battery should be connected together.



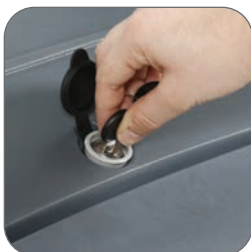
2. Filling up the Waterbase

After the assembly, use supplied tool to open the cap on water base. A funnel should be used to fill the water base with water.



3. Instructions to open the battery compartment

The battery is safe in a lockable battery compartment. You can open the compartment as shown on the pictures below.



Open the lock with the key of the compartment as you see on the picture.

After you unlocked the compartment, you can open the cover.

4. Instructions to plug in and unplug the battery

After opening the battery compartment cover, plug in the power cable into the contained power cable of the switching circuit as shown on the pictures.



You can check the charge level of the battery with the LED's on the battery. Please press the indicator button for 1 second to see the charge level.



To load the battery please make sure that you unplug the power cable of the switching circuit. With the handle you can take the battery out.



5. How to Operate the Remote Control

There are 2 remote controls packed with LED WindPro. One of 2 remote controls is ready for use. It is marked with a green sticker in front of the remote control.



Make sure the frame and remote control is connected by below steps

- ▶ Pick on the remote control
- ▶ Then put the button next to battery in position "I".
- ▶ Press "ON" button on the remote control for 5 seconds
- ▶ Put the button next to battery in position 0 and wait for 5 seconds
- ▶ Than put it back to position "I" again. Then press "on" button on the remote controle.
- ▶ The frame should blink 3 times and light up constantly as it should be.
- ▶ You can also adjust the lighting level with the help of buttons on the remote control "100%" or "50%".

6. Instruction of poster replacement

Product have 14 locks as 7 locks on each sides. In order to change the poster these locks should untightened.



Then open the frame cover. It will be balanced due to stabilization of elastic rubbers



WARNING!

Do not tighten the locks too much on the frame.
Do not pull out the covers more than 45° angle.

There are two poster holders inside of the frame. Poster can be removed by sliding down the holders.



It is very easy to change the poster. Place the poster on acrylic surface and fasten up by poster holder. After placement of poster, frame can be closed by pushing the cover gently.



There is On/Off switch in the battery compartment, for open and close the illumination of the frame.



System off 0



Dimmer Mode 1: Remote control will be activate. The frame works with %50 or %100 bright.



Direct Mode 2: The battery connect directly to illumination. The frame works with %100 bright.

One button can shows four specifications



Capacity of Battery
(0 - 100 %)



Instant consumption
(0 - 2) Ampere



Capacity of battery
(0 - 8) Ampere/hour



Battery voltage
(20 - 26,6) Volt

7. Product carrying

WindPro with LED has carrying tool which designed specially for this product. It can be moved easily by the tool.



WARRANTY CONDITIONS

LED Illuminated WindPro is warranted against manufacturing faults when used in the below mentioned conditions for the period of one year.

MT Displays undertake to repair or replace the product at no charge if found to be defective due to a manufacturing fault during the warranty period. The warranty excludes damage caused by misuse, neglect, shipping accident, incorrect installation, and no fault found with the product or work carried out by anyone other than MT Displays assigned.

MT Displays is not responsible for loss of the product, or for other incidental, special or consequential damages or expenses incurred by the purchaser, or for labor or other costs due to installation or removal, or cost of repairs by other or for any other expenses not specifically stated above.

The warranty is in effect for the period and usage described above from the date of purchase from MT Displays. MT Displays can supply parts and accessories after warranty expires.

To Claim Your Warranty

1. Please contact your distributor or reseller and explain the nature of the problem with photos of the product which shows clearly defect and the environment it has been used.
2. Provide your supplier batch number on LED Illuminated WindPro and proof of purchase.
3. You will be required to fill up a form for your claim.
4. If the claim is within the warranty period and within the terms of the warranty, makes arrangements for service and repairs or a replacement product with your distributor or reseller after manufacturer MT Displays confirms it is manufacturing defect.
5. It is user's responsibility to return the product to distributor or reseller.

Transport

When sending the product, use the original packing materials, the inner and outer cartons. If the original packaging is no longer available, use at least bubble wrap and insert the product in a carton which holds at least 40 kg. Important: Any damage in transit, including scratches, breaks and indentation in the housing of the product is NOT covered by this warranty.

NOTE: The use of chlorine or chlorine related products for cleaning can seriously damage the finish and function on the aluminium and plastic surfaces.

EC CERTIFICATION OF BATTERY



TEST REPORT

REPORT NUMBER : TURR140160704

APPLICANT NAME M.T. Reklam A.Ş.

ADDRESS Cumhuriyet Mah. Selin Sok. No: 1 41420 Çayirova Kocaeli
TEL NO: 0262 658 19 85
Attention : Soner Abadan (sabadan@mtdisplays.com.tr)

SAMPLE DESCRIPTION : One sample of Lithium iron phosphate polymer battery

DATE IN : 23 October, 2014 (12:32)

DATE OUT : 30 October, 2014

MODEL NO : 11585135Fe-8S 2S 6V 10Ah

COUNTRY OF ORIGIN : CHINA

REQUEST : Battery Directive (2006/66/EC) was performed on the item.

RESULTS : See attachment

CONCLUSION : See attachment

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Bora Şirinbilek
Coordinator

Neslihan Sözer
Chemical Laboratory Manager



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140160704



RESULTS

REPORT : TURR140160704

30 October, 2014

(A) Test Method Summary

Testing Item	Result				Battery Directive Limit (mg/kg)
	Part 1	Part 2	Part 3	Part 4	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)
	Part 5	Part 6	Part 7	Part 8	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)
	Part 9	Part 10	Part 11	Part 12	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)
	Part 13	Part 14	Part 15	Part 16	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)
	Part 17	Part 18	Part 19	Part 20	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)
	Part 21	Part 22	Part 23	Part 24	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)
	Part 25	Part 26	Part 27	Part 28	
Cadmium (Cd) Content	ND	ND	ND	ND	0.025% (250 mg/kg)
Lead (Pb) Content	ND	ND	ND	ND	See Note*
Mercury (Hg) Content	ND	ND	ND	ND	0.0005% (5 mg/kg)

*All batteries, accumulators, and button cells shall be marked with a crossed wheeler bin symbol if they contain more than 0.0005% mercury, or more than 0.002% cadmium or more than 0.004% lead, then the chemical symbol for that particular metal shall be added beneath the crossed wheeler bin symbol. The chemical symbol shall cover an area at least 1,5 % of the surface area of the battery or accumulator and shall have a maximum size of 5 x 5 cm.
Separate chemical symbols are required if the battery or accumulator contains more than one of these metals. For example, a battery containing lead (Pb) exceeding 0.004% and mercury (Hg) exceeding 0.0005%, shall be marked with both the Pb and Hg symbols.

Remarks : ppm=Parts per million based on dry weight of sample
 <=Less than
 ND =Not detected NA =Not applicable NR =Not requested

(B) Test Method :

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd)Content	With reference to IEC 62321-111/116/FDIS,by acid digestion and determined by ICP-OES	2 ppm
Lead (Pb)Content	With reference to IEC 62321-111/116/FDIS,by acid digestion and determined by ICP-OES	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-111/116/FDIS,by acid digestion and determined by ICP-OES	2 ppm



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RESULTS

REPORT : TURR140160704

30 October, 2014

PARTS	DESCRIPTION	CONCLUSION
	Sample	
1	GOLD LABEL	PASS
2	WHITE LABEL	PASS
3	BRAND LABEL	PASS
4	BLUE ISOLATION COVER	PASS
5	GREEN PAPER ISOLATION	PASS
6	FOAM ISOLATION	PASS
7	TRANSPARENT TAPE	PASS
8	YELLOW TAPE	PASS
9	YELLOW PLASTIC COVER	PASS
10	WHITE SOCKET	PASS
11	BLACK THIN CABLE	PASS
12	RED THIN CABLE	PASS
13	SMALL WHITE MACARON	PASS
14	BATTERY SCREW	PASS
15	BRASS LEG	PASS
16	BIG BOARD	PASS
17	BIG MACARON	PASS
18	THICK SILICONE RED CABLE	PASS
19	THIN SILICONE RED CABLE	PASS
20	THICK SILICONE BLACK CABLE	PASS
21	METAL PLATE	PASS
22	METAL PLATE BACK GLUE	PASS
23	CABLE WIRE	PASS
24	SMALL BOARD	PASS
25	PRESS TAPE OF BATTERY CELL	PASS
26	TERMINAL LEG OF BATTERY CELL	PASS
27	BATTERY CELL BOARD	PASS
28	BATTERY CELL	PASS



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