



## **OPERATING INSTRUCTIONS**

Outdoor advertising display

DKSO-LED55



Please read this manual before using the product and follow the instructions it contains!

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## FOREWORD

Congratulations on the purchase of your new digital outdoor advertising display. This device is made of high quality materials, specially designed for durable and reliable use. For your own safety and for the correct operation of the DKSO-LED55, be sure to read and follow these operating instructions before using it. Keep them in a safe place.

Check the device for transport damage. Damaged advertising displays must not be put into use. The digital advertising display is used for the customer-effective display of advertising. Improper handling may result in injury or damage to the device. Any liability for damages resulting from the improper use of the device or the disregard of specifications and rules of conduct of this operating manual is excluded. The operator is responsible for ensuring correct use by trained and authorized personnel.

The German-language operating manual is the original operating manual, while editions in other languages are translations. Technical modifications are reserved.

## SAFETY INSTRUCTIONS

- Make sure that the ambient temperature is between -20 °C - +60 °C.
- Make sure that the ground is level. To ensure the stability of the DKSO-LED55, the device must be anchored in the floor.
- Mount the device in dry weather.
- Choose an environment where there is no standing water and little dust. Long-term moisture and excessive dust will affect the life of the unit.
- Turn off and unplug the power supply before you intend to move the advertising display.
- Do not block the ventilation slots or place the unit near a heat source or other equipment that may affect ventilation.
- Do not perform repair work on your own. Contact our customer service department in case of problems.
- Use the device with a stable power supply. Use only the power cord supplied with the unit.
- Overloaded mains sockets and extension cords are a source of danger. This also applies to damaged power cords and plugs. This may result in the risk of electric shock or cable fire.
- Do not subject the device to shocks.
- When not in use the advertising display should be stored in a dry, sun- and heat-protected place.
- Never touch the power cord during a lightning storm. There is a risk of electric shock.
- Modifications and changes to the device not approved by the manufacturer will void the warranty.



The DKSO-LED55 digital advertising display meets the fire protection requirements of UL94-V0. The metal housing is non-flammable according to the standard.

## TECHNICAL DATA

### GENERAL

Type	Unit	Value
Model		DKSO-LED55
Color		Black
Dimensions (W x D x H)	mm	880 x 448 x 2180
Weight	kg	115
Operating system		Android 13
Application area		Outdoor
Protection class		IP55
Service life	h/d	24/7
Working temperature	°C	-20 – 60
Loudspeaker		5 W, 8 Ω
Connections / interfaces		3 x USB, HDMI, LAN, SD, LVDS
Power consumption (on)	W	455
Power supply	V	230

### SYSTEM

Type	Unit	Value
Operation		Remote control
Response time	ms	5
Processor (CPU)		RK3568
Working memory (RAM)	GB	2
Flash memory (ROM)	GB	32

### DISPLAY

Type	Unit	Value
Screen model		B0E
Material		Antireflection glass
Screen diagonal	"	55
Screen dimensions (W x H)	mm	680 x 1205
Format		9:16
Resolution	px	1080 x 1920 (2K)
Luminosity	cd/m <sup>2</sup>	2500
Contrast		3500:1
Number of colors	Mio.	16.7
Lifetime	h	60000

### TIMER

Type	Unit	Value
Dimensions	mm	120 x 72 x 50
Weight	g	210
Battery		Interchangeable mignon battery
Energy consumption	VA	< 5
Operating temperature	°C	-10 – 50



## OVERVIEW OF THE MAIN COMPONENTS



No.	Designation
1	ON / OFF
2	Using the mouse
3	Fast forward / rewind
4	Title forward / backward
5	Play / pause
6	Stop
7	Volume up / down

No.	Designation
8	Sound off
9	Home
10	Control pad
11	Menu
12	Back
13	Numeric keys
14	Delete

No.	Designation
15	Lock
16	Nameplate
17	Base
18	Power cable
19	Lifting rings
20	Ventilation window
21	Loudspeaker

## ASSEMBLY



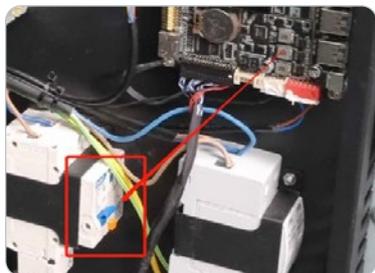
To ensure your safety, please observe the following instructions:

- The device must be firmly anchored in the concrete floor.
- Mount the DKS0-LED55 in dry weather only.
- Ensure enough space around the advertising display for heat dissipation.
- Environment without standing water and little dust.

1. Screw the base together with the advertising display.
2. Mount the lifting rings on the top of the advertising display.
3. Remove the mounting bolts and screw the nuts to the top position.
4. Drill 4 holes in the ground for the bolt anchors.
5. Use a hammer to anchor the bolts firmly into the ground. Place the advertising display with the base on the bolts and tighten the bolts.
6. After successful assembly, do not remove the lifting rings.

## INSTRUCTION MANUAL

1. Use the key to open the rear door on the advertising display.
2. Switch on the device. For this purpose, the RCD switch must be folded upwards. To switch off the device, the RCD switch must be pressed down.



For optimal operation, a small distance between the remote control and the advertising display is recommended.

3. Set the timer according to your needs. The following describes how you can set it.



Displaying an unchanged image continuously can lead to so-called burn-in effects. This means that image content remains faintly visible. This effect is due to technical reasons and is not usually a defect. The display usually disappears by itself if the image is changed regularly or moving content is displayed.

## TIMER

The advertising display has an integrated timer. You can use it to program the time windows in which the device is switched on and off.



Please note that the outdoor advertising display must be connected to the power supply and switched on in summer, especially at high temperatures and strong sunlight. In this way, the built-in cooling can work and heat damage to the display can be avoided.

## PROGRAMMING TIMER

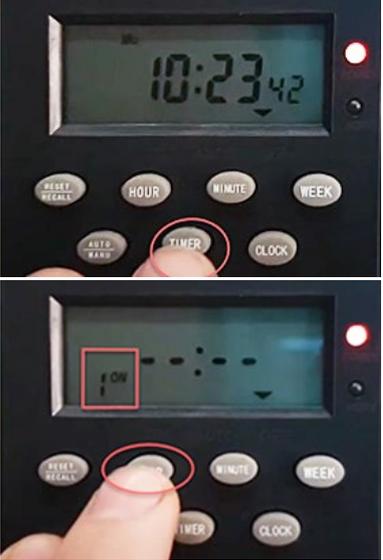
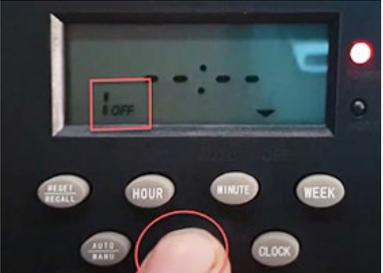
To be able to make settings on the timer, it must be unlocked. The display locks automatically. If the mirror-inverted 6 is visible at the bottom left of the display, this means that the timer lock is active. To unlock the timer, press the red **Reset / Recall** button 4 times in succession. The mirrored 6 will then no longer be displayed.

## UPDATE THE TIME AND DAY OF THE WEEK

Use the **HOUR**, **MINUTE**, and **WEEK** buttons to set the hours, minutes, and day of the week, respectively.



The following explains how to program the timer:

No.	Explanation	Image
1	<p><b>TIMER</b>- then press <b>HOUR</b> key and program the 1st time setting. 16 settings can be programmed. 1<sup>0M</sup> Switch-on time of the first time setting is displayed</p>	
2	<p>Press <b>WEEK</b> key repeatedly to select the desired combination of days</p>	
3	<p>Press the <b>HOUR</b> key to set the time</p>	
4	<p>Press the <b>TIMER</b> key to set the 1<sub>OFF</sub> switch-off time. Press <b>HOUR</b> again until the desired time is displayed</p>	

No.	Explanation	Image
5	<p>Press the <b>TIMER</b> key to program the switch-on time of another time setting. Use <b>HOUR</b> and <b>WEEK</b> to program the setting. Press the <b>TIMER</b> key again to set the switch-off time</p>	
6	<p>To have the device switch on and off automatically by a programmed time setting, you can activate the automatic mode. Select the desired time setting and press the <b>AUTO / MANU</b> key.</p> <p>The green light will turn on when the time setting is activated.  <b>Info:</b> The ventilation also goes on when the time setting was activated</p>	
7	<p>If a time setting is incorrect, has changed or has to be deleted, the <b>RESET / RECALL</b> key must be pressed. For all unused time settings always appears: - : - -</p>	

## REPLACING THE TIMER BATTERY

Description	Image
<p>Open the rear cover. Unscrew the timer</p>	
<p>Remove the battery and replace it with an AA battery</p>	

## HEAT PRECAUTIONS



1. It is essential to cool the unit when it is hot.
2. To do this, connect the advertising display permanently to the power supply. This ensures good cooling by the unit's cooling system and heat is dissipated.
3. To dissipate the heat as quickly as possible, open the rear cover of the unit. Always leave the unit connected to the power supply and check that the fan of the advertising display is running normally. Please leave the cover open.
4. **DO NOT** switch off the digital advertising display when it is in the sun. If the power is turned off in the sun, the cooling system will stop working and the screen may be damaged due to excessive temperature.



Get sun protection (sunshade, ...) if the advertising display has to be placed outdoors and a power supply cannot be provided.

## REGULAR VISUAL INSPECTION

Carry out regular visual inspections. Pay particular attention to the display and the power cord.

Clean the display regularly. Spray cleaning solution on a microfibre cloth to clean the device. Never spray cleaning solution directly onto the device. Regularly check the ventilation slots on the back of the advertising display.

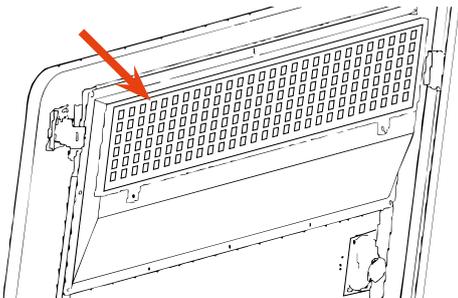
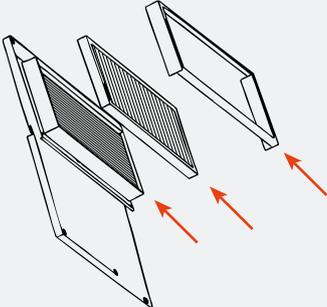
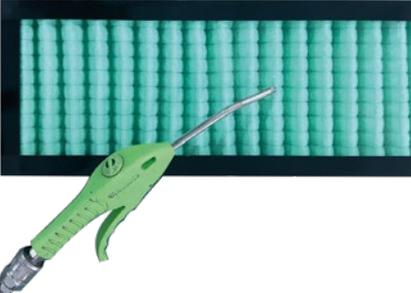
## REGULAR FILTER CLEANING



Please remove dust from the filter at least every 3 months. If the pavement sign is located in a dusty environment for a long period of time, clean the filter every month and replace it once a year.



**PLEASE NOTE: THE GREEN FILTER MUST NOT BE CLEANED WITH WATER!**

Description	Image representation
<p>1. The filter is located at the top of the inside of the door.</p>	
<p>2. Remove the filter from the device. You will need a screwdriver for this.</p>	
<p>3. Use compressed air to clean the filter. Important: The filter must not be in the appliance during this process.</p>	

## TROUBLESHOOTING

Problem	Cause	Solution
Black screen	Power cord was not connected	Connect the advertising display to the mains
	The device was not switched on	Press the toggle switch upwards
	Overheating	Please proceed as described in the section "HEAT PRECAUTIONS"
	The timer battery is empty	Please proceed as described in the section "Replacing the timer battery"
Images are displayed but no sound is played	Audio cable has come loose from the interface	Reconnect the audio cable to the interface
	Audio cable is loose	Plug in audio cable
	Remote control mute has been activated	Deactivate mute function on remote control
	Volume has been turned all the way down	Increase volume on remote control
	Speaker cable interface on driver board is loose	Reconnect speaker cable
Sound is played but no images are displayed	Video signal cable not connected	Check connection using the remote control
	Wrong image source selected	Select picture source correctly
Remote control does not respond	No batteries inserted	Insert batteries in the remote control
	Remote control is not aligned with the sensor	Always point the remote control at the sensor during use
	Remote sensor and driver board have no connection	Check connection between remote control sensor and driver board
Timer switches incorrectly	Time window was set incorrectly	Check the <b>ON</b> time and <b>OFF</b> time
	Automatic mode was not set	Make sure that <b>AUTO</b> mode is selected. <b>ON</b> / <b>OFF</b> is the manual mode. Press <b>AUTO</b> / <b>MANU</b> key several times to switch to <b>AUTO</b> mode
	Incorrect setting	Ensure that unused / unneeded settings are displayed as follows → - - : - - not → 00:00
Image content remains visible	Static display over a longer period of time	Switch off the display for several hours
		Change content regularly or display moving content

## SERVICE &amp; CONTACT

Contact our product experts and find help and solutions for your product. Here you will find all contact information listed by country and language: [www.topregal.co.uk/en/service](http://www.topregal.co.uk/en/service)

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# UKCA Declaration of Conformity

The manufacturer

**TOPREGAL UK Ltd.**  
**Carlton Drive Crumlin**  
**Gwent NP11 4EA**

hereby declares that the following product

Product name:

**TecMaschin**  
**Outdoor advertising display**

Type:

**DKSO-LED55**

Serial number:

**DKSO-LED55-1000000000 – DKSO-LED55-9999999999**

that the equipment is in conformity with the following relevant UK legislations and applied standards:

**2014/30/EU Electromagnetic Compatibility (EMC)**  
**2014/35/EU Low Voltage Directive**  
**2014/53/EU Radio Equipment Directive**

**EN IEC 62368-1 + A11**  
**EN IEC 62311**  
**ETSI EN 301 489-1**  
**ETSI EN 301 489-17**  
**ETSI EN 300 328**

Name and address of the person who is authorized, compile the technical documentation:

TOPREGAL UK Ltd.  
Carlton Drive Crumlin  
Gwent NP11 4EA



Place: Crumlin UK  
Date: 21.06.2023

Juergen Effner  
Chief Executive Officer

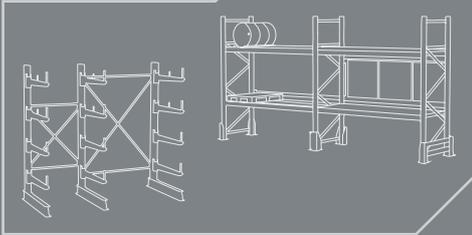






# TOPREGAL

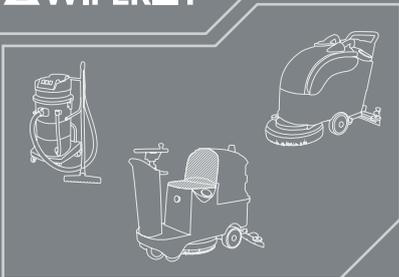
## TOPREGAL



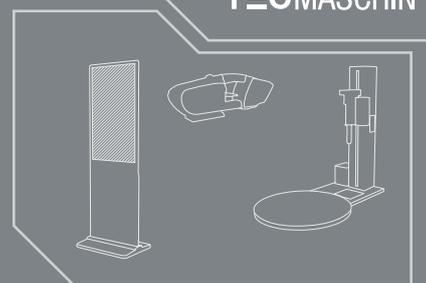
## SolidHub



## WIPEKET



## TECMASCHIN



## SOLOPORT

