



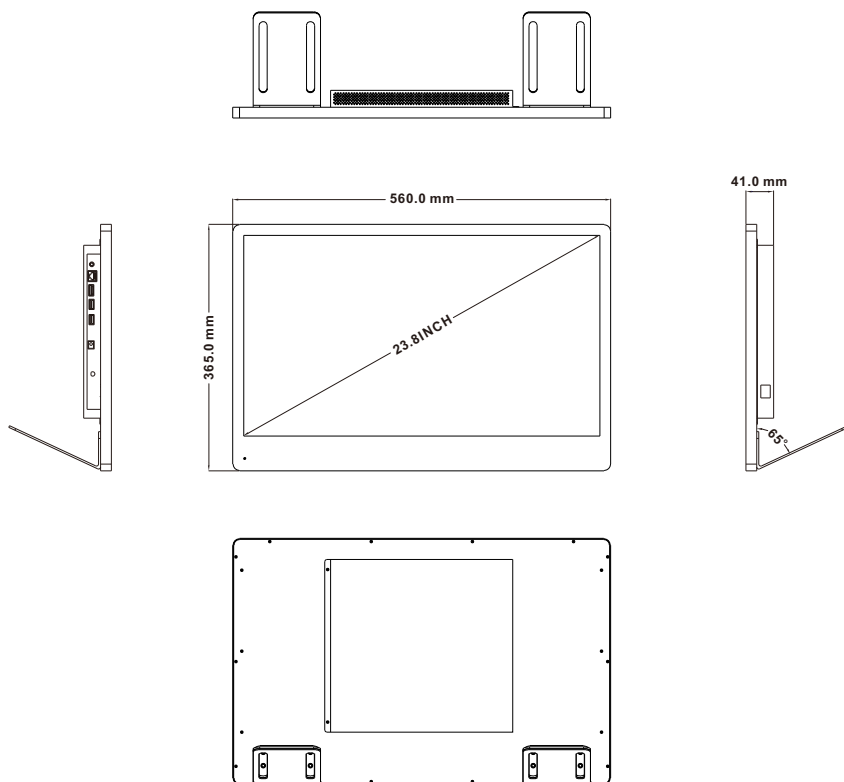
SHOWTOP

Desktop Digital Signage Machine User Manual

I. Product Name

Product Name: Desktop Digital Signage

II. Structural Diagram of the Product



(Please refer to the actual product)

III. Basic Specifications and Parameters

Display Parameters	
Panel size	23.8 inches
Display area size	528(H)*297.5(V)
Aspect ratio	16:9
Resolution	3840*2160
Display color	16.7M
Brightness	600cd/m2(center point, typical value)
Contrast	1000:1
Visible angle	R/L/U/D 89/89/89/89
Response time	14ms(typical value)
Field frequency	60HZ
Theoretical service life	30000H
Power consumption	50W(max)

Specification Parameters	
Chip	ARM Cortex-A35
Memory	DDR3 2GB(built-in)
Built-in storage capacity	EMMC 8GB(standard configuration)
Language	Chinese, English
Ethernet	100M adaptive Ethernet
Wi-Fi	Supports 2.4G 802.11 b/g/n 1T1R WLAN
Input interface	LAN ×1, UART×1, USB ×2, HDMI ×2
Output interface	Earphone out ×1

Product Accessories	
Remote control	1
AAA battery	2PCS
Quality Certificate	1PC
Warranty Card	1PC
User Manual	1PC

IV. Operating Environment

Operating environment	
Operating temperature:	0°C~40°C
Storage temperature:	-10°C~60°C
Ambient humidity:	<85%
Operating voltage:	12V $\approx$ 5A

V. Operating Environment

See Annex for details.

Please note the following:

1. Intellectual Property Statement: The hardware design and software programming of this product are protected by copyright. Unauthorized copying of this product and the contents of the Instruction Manual will be investigated with corresponding legal liability.
2. This is a Grade A product. In a standard living environment, this product may cause certain radio interference. In this case, the user may be required to take practical measures against such interference.
3. The content in this Instruction Manual is for reference only and does not constitute any form of commitment.
4. SHOWTOP reserves the right to improve and change the product design without prior notice.

Warning

In a standard living environment, this product may cause certain radio interference. In this case, the user may be required to take practical measures against such interference.

VI. Test Report

Test Report					
Product Model			DK23.8A	Purpose	To ensure the reliability and practicality of the product
Prepared by			Shenzhen SHOWTOP Technology Co., Ltd.		
Scope of Application			SHOWTOP Commercial Advertising Machine		
S/N	Test Item	Quantity	Test Requirements/Standards	Test Steps	Test Results
1	Drop impact test	1	Product weight: 9Kg≤M≤20Kg Drop height: 30CM for corners/edges, 40CM for top, 40CM for other sides Drop order: 1 corner, 3 edges, 6 sides	1. Prepare qualified and verified test equipment and drop test bench; 2. Perform operations on the packaged device according to the experimental requirements; 3. After the experiment, unpack the device and check whether there is any abnormality in appearance, and check whether it is operating normally after powering on. If there is no abnormality, the test is passed and ended.	PASS
2	High and low temperature test	1	Test environment: 1. 45 ±2℃ 50%RH 4h 2. 60±2℃ 30%RH 4h 3. -25±2℃ ORH 4h 4. -10±2℃ ORH 4h Test each of the above parameters for more than 4 hours after powering on, check whether the device is operating normally. Test each parameter for more than 4 hours after powering off then powering on, and check whether the device is operating normally	1. Prepare qualified and verified thermostatic chamber and set the parameters according to the experimental requirements/standards; 2. Place the device into the experimental equipment for testing according to the experimental requirements/standards; 3. After the experiment, check whether there is any abnormality in the equipment. If there is no abnormality, the test is passed and ended.	PASS
3	Electrical performance test	1	Test condition 1) The product is not damaged after aging for 30 minutes at ±20% of the rated operating voltage; 2) Adjust the voltage by ±15% of the rated operating voltage by 20V each time (increasing or decreasing the voltage), and check whether there are any abnormalities in the image and sound	1. Prepare qualified and verified voltage regulator, and set parameters according to the experimental requirements/standards; 2. A professional test technician conducts the test according to the test requirements; 3. After the test, check whether there is any abnormality in the equipment. If there is no abnormality, the test is passed and ended.	PASS
4	Display test	1	1. Signal source: The device works for screen projection and playback when connected to the network and WIFI; 2. Software version: Latest version; 3. Voltage: Rated Operating voltage; 4. Load: Two speakers working simultaneously, with other parameters set to factory settings; 5. Test environment: Tested at a temperature of 40±2℃ and humidity of 28%RH for more than 12 hours	1. A professional test technician tests the machine for more than 12 hours according to the experimental requirements/standards; Check whether the WIFI and network connections are operating normally; 2. Check whether the remote control is operating normally ; 3. Check whether the software version is the latest version; 4. After the experiment, check whether there is any abnormality in the equipment. If there is no abnormality, the test is passed and ended.	PASS

VI. Test Report

S/N	Test Item	Quantity	Test Requirements/Standards	Test Steps	Test Results
5	Structural component inspection	1	Metal parts should be free from rust and other mechanical damage. The color of the surface coating should not have any obvious color discrepancy. The operating switches and buttons should work flexibly and reliably, and parts should be fastened and not loose. There should be no obvious installation gaps. The complete device should have sufficient mechanical stability	1. A professional test technician inspects the hardware and structural parts of the device according to the inspection requirements/standards; 2. During the inspection, the device should not have any problems other than the standards; inspection ended	PASS
6	Packaging inspection	1	The surface of the packaging should be clean and tidy without obvious defects, such as concave and convex distortions, scratches, cracks, deformations and burrs. The surface coating should not blister, crack, or fall off. The text, graphics and symbols on the outer box, and in the Instruction Manual, etc. should be clear and feature correct indications	1. Before packaging the device, a professional test technician should inspect the surface, outer box, Instruction Manual, etc. of the device according to the inspection requirements/standards; 2. During the inspection, the device should not have any problems other than the standards; inspection ended	PASS

Note: The above test requirements/standards are the internal test standards of the commercial display advertising machine industry.

ISED Statement

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.

L'exploitation est soumise aux deux conditions suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

L'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian Information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rrs 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.