

VK10 User's Manual



User's manual VK10

Version 1.0.1
10/2019

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Table of Contents

1	Introduction	6
1.1	Explanation of Admonitions	6
1.2	Symbols and Markings	6
1.3	Intended Use	8
1.4	Package Contents	8
2	Safety	8
2.1	Avoiding Hearing Damage	8
2.2	Power Supply and Batteries	8
2.3	Electricity	10
2.4	Software	10
2.5	Third Party	10
2.6	Troubleshooting and Customer Support	10
3	Overview of the VK10	12
3.1	Key Features	12
3.2	Product Layout	12
3.2.1	Ports, Sensors and Device Buttons	12
4	Batteries in the VK10	14
4.1	Batteries	14
4.2	Charging the Tablet	14
5	Using the VK10	15
5.1	Starting the Device	15
5.2	Shutting Down the VK10	15
5.3	Using the Cameras	15
5.8	Adjusting the Volume	16
5.9	Adjusting the Sound	16
6.	Product Care	20
6.1	Temperature & Humidity	20
6.1.1	General Use - Operating temperature	20
6.1.2	Transportation and Storage	20
6.2	Cleaning of the VK10 Device	20
6.3	Transporting the VK10 Device	20
6.4	Disposing of the VK10 Device	20
Appendix B	Compliance Information	22

Appendix D	Technical Specifications	24
Appendix E	Approved Accessories	26

1 Introduction



Thank you for purchasing a VK10 device !


To ensure the optimal performance of this product, please take the time to read this manual carefully.


VK10 is a high performance, light weight, compact, portable gaming device. Each handset contains internal batteries for power, and also has internal memory to store and run the products, games, and patterns used to play Bingo.

1.1 Explanation of Admonitions

In this manual we use four (4) levels of admonitions as follows:





 The Note symbol is used for notifying the user of something important or of something that needs special attention.  The Caution symbol is used to inform of something that could cause harm to, or malfunction of, the equipment.



 The Warning symbol is used to inform of something in which there is a conceivable risk of harm to the user if the Warning is ignored.




 The High-Volume symbol is used to inform of something that can cause damage to hearing.

1.2 Symbols and Markings

This section provides information about the symbols that are used on the VK10, its accessories, or packaging.

Symbol or Markings	Description
	Power On
 	Dispose of in accordance with your country's requirements.
	CE is the abbreviation of the European Communities and this mark tells customs officials in the European Union that the product complies with one or more of the EC Directives.

	This mark is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.
	The product meet UL's requirements for Canada and the United States.

Symbol or Markings	Description
-	Volume down
+	Volume up
	Warning
	For indoor use.
	This device might interfere with other equipment.

1.3 Intended Use

The VK10 tablet is a rechargeable, hand-held device used for playing bingo electronically.



Intended use is primarily an indoor environment.

The user can use the device and charge the device under normal circumstances. The user can maintain the device and its accessories according to the user manual.

1.4 Package Contents

It is recommended to keep the original packaging materials for the VK10.


If device needs to be returned to Estone Technology for Warranty related issues or repair, it is beneficial that the original packaging or equal equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.




Note: Due to Joint Commission regulations, any shipping materials including boxes sent to Estone Technology must be discarded.


2 Safety

The VK10 device has been tested and approved as compliant to all the Specifications and Standards listed in *Appendix B Compliance Information, page 22* of this manual and in the *Appendix C Technical Specifications, page 25*. Nevertheless, in order to ensure safe operation of your VK10 device, there are a few safety warnings to bear in mind:


 No modification of this equipment is allowed.

Do Not disassemble this product. You may receive an electric shock, or foreign matter may enter and result in a fire.

 If a malfunction or trouble occurs, immediately turn the power off and unplug the AC plug. Then contact your technical support office for repair.

 Do not service or perform maintenance on the device while the device is in use. Make sure to shut the device down and unplug all cables before starting and service or maintenance work on the device.

2.1 Avoiding Hearing Damage

 Permanent hearing loss may occur if earphones, headphones or speakers are used at high volume. To prevent this, the volume should be set to a safe level. You can become desensitized over time to high sound levels which may then sound acceptable yet still could be damaging your hearing. If you experience symptoms such as ringing in your ears, please lower the volume or stop using the earphones/headphones. The louder the volume, the less time is required before your hearing could be affected.


Hearing experts suggest the following measures to protect your hearing:

- Limit the amount of time you use earphones or headphones at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you cannot hear people speaking near you.

To establish a safe volume level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

2.2 Power Supply and Batteries

 The VK10 device contains one rechargeable battery. Battery degrades over time. Thus, the possible usage times for the VK10 after a full charge can become shorter over time than when the device was new.



The VK10 device uses a Li-ion Polymer battery.

If you are in a hot environment, be aware that it can affect the ability to charge the battery. The internal temperature must be between **0 °C and 40 °C** for the battery to charge.



Avoid exposing the VK10 device to fire or to temperatures above **60 °C**. These conditions may cause the battery to malfunction, generate heat, ignite or explode. Be aware that it is possible, in a worst-case scenario, for temperatures to reach greater than those stated above in, for example, the trunk of a car on a hot day. So, storing the VK10 device, in a hot car trunk could conceivably lead to a malfunction.



Only charge the VK10 battery in an ambient temperature of **0 °C to 40 °C**.



Use only the supplied power adapter to charge the VK10 device. Using unauthorized power adapters may severely damage the VK10 device.



For safe operation of the VK10 device, use only charger and accessories approved by Estone Technology.



If the Power Supply Cord is damaged it needs to be replaced by Service Personnel only. Do not use the Power Supply Cord until replaced.



Disconnect the AC power plug of the Power adapter from the wall socket when not charging the device and disconnect the power cable from the device.



Special regulations apply to shipping devices containing Li-ion Polymer batteries. If dropped, crushed, or short-circuited, these batteries can release dangerous amounts of heat, may ignite, and may be dangerous in fires.

Please reference IATA regulations when shipping lithium metal or lithium ion batteries or cells: http://www.iata.org/whatwedo/cargo/dangerous_goods/Pages/lithium_batteries.aspx .



When charging/using, no one shall not touch the charging connector and the user simultaneously. Always keep the device turned off when charging.

2.3 Electricity



Do not open the casing of the VK10 device, since you may be exposed to potentially hazardous electrical voltage. The device contains no user serviceable parts.

2.4 Software



Using an antivirus program is strongly recommended.



Software other than that which is pre-installed on the VK10 is installed at the user's own risk. External software could cause the VK10 to malfunction and might not be covered by the warranty.

2.5 Third Party



Any use of the VK10 outside the intended use and together with any third-party software or hardware that changes the intended use is a risk and nothing that Estone Technology can take any responsibility for.

2.6 Troubleshooting and Customer Support

In most cases, restarting your device will cure any problems. To restart your device, Select Start and then select Power - Shut down. If your device has crashed, hold down the power button or remote power button for 5+ seconds to hard shutdown. Press it again to turn it back on.

If this does not fix the problem, contact support at:

support@estonetech.com

Please have your serial number ready. This can be found on the back of your device.

3 Overview of the VK10

3.1 Key Features

The VK10 has several built-in features.

- 1 × Cameras
- 1 × Micro-A USB 2.0 connector
- 1 × Head phone connector
- 1 × Bluetooth
- 1 × WLAN (Wireless Local Area Network)

3.2 Product Layout

A VK10 device has a multi Capacitive touch, LED Backlight screen. The VK10 has a 10" screen with a 1920 × 1080-pixel resolution.

3.2.1 Ports, Sensors and Device Buttons



Figure3.2.1 VK10 Tablet



Never force a connector into a port. If the connector and port do not join with reasonable ease, they probably do not match. Make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

Be extra careful with the USB connectors.

4 Batteries in the VK10

4.1 Batteries

The VK10 device has one built-in battery. If the VK10 device is not charged or powered up by the power supply, the VK10 device will shut down automatically.

4.2 Charging the Tablet

1. Connect the Power cable to the charging port on the device.
2. Connect the Power adapter to an electrical outlet and charge the tablet until the battery is fully charged.
3. After your device is fully charged, disconnect the charger from both the device and the electrical outlet.

You can't overcharge the battery. It is fine to charge the battery overnight.



You can use the VK10 while the battery is charging.

5 Using the VK10

No skill other than reading is necessary for setting up the VK10 device. Follow this User's Manual and the Quick Start Manual.

5.1 Starting the Device

Start the device in one of the following ways:

- Press the power button on the top of the device.

5.2 Shutting Down the VK10

The device should be shut down in the following way:

- Use the start menu in Windows (recommended when possible).

Should you be unable to shut the device down using the above, you can hold the power button on the top side of the device down for more than 20 seconds. The device will consequently shut down immediately, without waiting for open applications to close.

Reset can be performed by holding the power button on the top side of the device for three (3) seconds



This is not considered a "clean" Windows shut down and is thus not recommended unless completely necessary because it can harm your device.

5.3 Using the Cameras

The two built-in cameras allow you to take snapshots of items facing the backside of the VK10 device and from the display side.

5.8 Adjusting the Volume

To adjust the volume, use the Volume Up and Down buttons on top side of the VK10 device.

5.9 Adjusting the Sound

You can configure the speakers using the **Setting> Sound**

6. Product Care

6.1 Temperature & Humidity

6.1.1 General Use - Operating temperature

The VK10 is best kept in dry conditions at room temperature. The recommended range for temperature and the humidity value for the device is as follows:

- Ambient temperature: 0°C to 40°C
- Relative humidity: 10% to 90% (no condensation on the device)
- Atmospheric Pressure: 80 kPa to 106 kPa (600 mmHg to 795 mmHg)

6.1.2 Transportation and Storage

For transportation and storage, the recommended range for temperature and the humidity value for the device is as follows:

- Temperature: -20°C to 60°C (-4°F to 140°F)
- Relative humidity: 10% to 90% (no condensation on the device)

The device should not be kept in excessively humid, damp or otherwise wet conditions. Do not submerge the device in water or in any other liquid. Be careful not to allow liquids to be spilled upon the device especially in the connector areas.

6.2 Cleaning of the VK10 Device

Before cleaning the VK10 device, shut it down and unplug all cables. The VK10 may be cleaned using a hospital grade cleaning product for infection control. The cleaning should be done using a wipe style product only. Wipe only outer surfaces of the VK10 device and allow the product to dry naturally or follow the wipe instructions. Do not use spray product which may saturate the VK10 device or allow moisture into the unit.

6.3 Transporting the VK10 Device

Disconnect all the cables from the VK10 while carrying the device.

When you transport the device for repair, shipment or traveling, use the original casing and packaging materials.



It is recommended to keep the original packaging materials for the VK10.

If device needs to be returned to Estone Technology for Warranty related issues or repair, it is beneficial that the original packaging or equal equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.

Note: Due to Joint Commission regulations, any shipping materials including boxes sent to Estone Technology must be discarded.

6.4 Disposing of the VK10 Device

Do not dispose of the VK10 Device in general household or office waste. Follow your local regulations for the disposal of electrical and electronic equipment.

Appendix A Support and Warranty

A1 Customer Support

For support, please contact your local representative or Support at [Estone Technology](#). In order to receive assistance as quickly as possible, make sure you have access to your VK10 device and, if possible, an Internet connection. You should also be able to supply the serial number of the device, which you will find on the Service tag label.

For further product information and other support resources, please visit <http://estonetech.com/>.

A2 Warranty

Please read the Manufacturer's Warranty paper included in the package.

Please read this User's Manual carefully before using the device. The warranty is only valid if the device is used according to the User's Manual. Disassembling the VK10 device will void the warranty.

It is recommended to keep the original packaging materials for the VK10.

If device needs to be returned to Estone Technology for Warranty related issues or repair, it is beneficial that the original packaging or equal equivalent is used for shipping. Most shipping carriers require at least 2 inches of packing material around the device.

Note: Due to Joint Commission regulations, any shipping materials including boxes sent to Estone Technology must be discarded.

Appendix B Compliance Information

FCC Statement

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.



Modifications not expressly approved by Estone Technology could void the user's authority to operate the equipment under FCC rules.

FCC Supplier's Declaration of Conformity

Model Name: VK10

Party issuing Supplier's Declaration of Conformity

Company name: Estone Technology LTD

Company Address: 2F, Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an, Shenzhen 518101, China.

Telephone number or internet contact information: +86 755 8264 0802

Responsible Party -U.S Contact Information

Company name: Video King Gaming Systems LLC

Company Address: 1045 N. 115th St., Suite 200 Omaha, NE 68154

Telephone number or internet contact information: (402) 951-2970

FCC Compliance Statement

This device 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.

ISED Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The devices for the band 5150-5350 MHz are only for indoor use.

Les appareils de la bande 5150-5350 mhz ne sont conçus que pour une utilisation en intérieur.

Appendix D Technical Specifications

D1 VK10

Standard	VK10
Type	Rugged Tablet PC
Model	VK10
Screen	10.1", Aspect ratio: 16:10, LED Backlight Unit
Screen Resolution	800 × 1280
Touch Panel	Multi point Capacitive Touch
Dimensions (WxHxD)	358 × 226 × 36 mm 14 × 8.9 × 1.4 inches
Weight	1300 g 2.866 lbs
Microphone	Analog Microphone
Processor	Rockchip RK3368H Octa core Cortex A53 @ 1.4GHZ
RAM	2 GB
Operating system	Android 7.1.2
Flash drive	16
Sensors	Gyroscope, Light sensor
Connectors	1x Audio jack (3.5mm, 4 pole, support MIC input)
Buttons	1 × Power On
WLAN/Bluetooth®	WiFi 802.11 a/b/g/n/ac in 2.4/5GHz Bluetooth V4.0
Camera	Front-facing: 5 Mega pixels
Battery Run Time	> 16 hours. normal usage
Battery Technology	Li-ion Polymer rechargeable battery
Battery Capacity	47.38 Wh
Battery Charge Time	< 7 hours
Power Supply	5V DC 2A

Appendix E Approved Accessories

1* AC Adaptor

1* Power cord with US Plug

For information about the latest approved Accessories for the VK10, please visit <http://estonetech.com/> or contact your local Estone Technology reseller.

Support for Your Estone Technology Device

Get Help Online

See the product-specific Support page for your Estone Technology device. It contains up-to-date information about issues and tips & tricks related to the product. Find our Support pages online at:

<http://estonetech.com/products/medical-grade-tablets/VK10-2/>

Contact Your Sales Representative or Reseller