

Champtek Z Series Biometric Kit



Champtek JV: Revolutionizing Election Solutions with the Champtek Z Series Biometric Kit

Champtek's Z Series Biometric kit delivers an advanced and reliable election solution tailored to address the diverse needs of modern electoral systems. Central to this solution is the **rugged ST-13U mobile tablet**, engineered for seamless operation in any environment, from urban centers to remote, challenging rural locations.

With its combination of **cutting-edge technology, robust hardware, and customizable software**, the Z Series ensures efficient and secure voter management. The system incorporates a **new voter registration module**, an integrated **candidate nomination, certification, and accreditation system**, and **AFIS** as a core component for biometric verification with complete **ABIS** module provides additional flexibility for enhanced identity management.

By streamlining voter registration and election processes, Champtek's Z Series empowers electoral bodies to conduct **transparent, credible, and inclusive elections**, reinforcing public trust in democratic systems.

Key Features and Advantages

1. Durability and Adaptability

- The **ST-13U** is certified to military-grade standards, withstanding drops up to 1.2 meters.
- Its **IP65 hardware sealing** ensures protection against severe weather conditions and environmental pollution.
- Transport and storage are simplified with the **IP67-rated carry case**, featuring secure locking and stacking capabilities.

2. Extendable Functionality

The Z Series MIL specification ruggedised tablet is a modular system that integrate components such as:

- Document scanner
- Signature pad
- Printer
- Webcam
- Fingerprint scanner

3. Advanced Connectivity

- **Inbuilt integrated GPS** and **dual-SIM capability** that supports 3G, 4G and 5G GSM connectivity enable secure and reliable data transmission to a central server through any local telecom/GSM provider.

4. Portable Design

- The lightweight Z Series kit includes a rechargeable **300W power station** with a **230.4Wh battery capacity**, ensuring reliable operations in off-grid locations.
- It is easy to carry, set up, and operate on a desk.

5. Comprehensive Biometric Verification

The Z Series captures and authenticates voter identities through:

- **Document scanning**
 - **Fingerprint and palm recognition**
 - **Facial/Photo-based biometric verification**
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Reliable and Robust Solutions

Designed for harsh environments, the **Champtek's Z Series** excels in:

- High-humidity and high-temperature conditions.
- Proven performance under extreme field conditions with its **IP65 rating**.

In addition, the **Champtek's Z Series IP67 carry case** enhances portability and storage, ensuring the equipment is protected during transport.

Integrated Voter Registration Software (VRS)

Champtek offers customized, scalable **Voter Registration Software** tailored to exceed client requirements. Our solutions empower countries to conduct **free and fair elections**, strengthening democracy with advanced technology.

Technical Specifications for Key Components

Rugged Tablet (ST-13U)

- **Size:** 13,3" Industrial Level Touchscreen Windows 11 Professional 64 bit with keyboard
- **Processor:** Intel I5-1235U, 10 cores, up to 4.4GHz
- **Memory:** 16GB DDR4 RAM
- **Storage:** 512GB SSD
- **Display:** 13.3" Touch Panel
- **Connectivity:** GSM, 3G, 4G, 5G, Wi-Fi, GPS, and wired LAN
- **Durability:** IP65 water and dustproof, 1.2m drop resistance

Additional Components

- **Signature Pad, 7-port USB Hub and a 64GB USB flash drive.**
- **Kensington Lock:** Slim-profile, 4-wheel code lock for secure engagement.
- **Fingerprint Scanner:** FBI-certified SLAP (4-4-2) with LES technology.
- **Document Scanner:** Fixed focus, 8MP resolution, real-time preview.
- **Webcam:** 10MP, 78° angle of view, auto-focus, and colour correction.
- **Printer:** Epson multifunctional device for printing, copying, and scanning with high yield and wireless connectivity.



Rugged Tablet

13.3-inch screen
Windows 11 Pro
IP65 dustproof and waterproof
Anti-drop 1.2M



Keyboard



Signature Pad



Kensington Lock



IP67 Carry Case

Water & Dustproof
wear-resistant
Ergonomic handle
Lock firm & easy to open
Strong impact resistance



Fingerprint Scanner

Support 4-finger flat, single-finger flat, and rolling capture, double thumb fingerprint collection



Power Station

Reliable, High-Power output 300W AC with 230.4Wh battery capacity, Multiple charging options, Advanced safety



Document Scanner

Fixed focus, 8 million pixels, transmission speed per second, real-time preview



Printer

The multifunctional printer –
Printing, copying and scanning
High print yield rate
Supports wireless connectivity



Webcam

Auto Focus, 10 Megapixels, Angle of View 78°
Automatic white balance & color correction



7ports USB Hub with switch