# LY43QZC02 43-inch curved lantern self-service all-in-one machine

Product Specification

| | |
|---|---|
| **Product Name** | 43-inch curved lantern self-service all-in-one machine |
| **Model** | LY43QZC02 |
| **Screen Size** | 43 inches |
| **Document Version** | 2026 specifications version |

## Product Image



Product Image

## Product Overview

This specification summarizes the product configuration, detailed parameters, product image, and overall dimensions for selection, quotation, and technical confirmation.

## Key Selling Points and Special Features

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|---|---|
| **Display and Picture Quality** | 43-inch high-definition LCD display; 1920×1080; 350 cd/m² brightness; 178° wide viewing angle |
| **Touch and Interaction** | Projected capacitive touch; 10-touch; response time < 5.5 ms; effective recognition > 1.5mm; tempered glass |
| **Performance and System** | CPU: Intel Corei3-3110M processor with 2.4GHz frequency; 4G+128G; Android system |
| **Identification, Payment and Printing** | 1D/QR code scanning; receipt/bill printing; IC/NFC card reading; fingerprint recognition |
| **Connectivity and Expansion** | Support USB interface, RS232, RS485, 4G and other interfaces |
| **Structure and Reliability** | Sheet metal structure; metal structure; tempered glass panel; wide temperature working design; humidity adaptation design |
| **Applications** | self service |

## Complete Configuration

| No. | Item | Specification | Unit |
|---|---|---|---|
| 1 | LCD screen | 43 inches 1920*1080 | PCS |
| 2 | touchscreen | 43-inch capacitive touch | PCS |
| 3 | motherboard | I3/3rd generation | PCS |
| 4 | store | 4G+128G | PCS |
| 5 | QR code | one and two dimensional | PCS |
| 6 | printer | 80mm | PCS |
| 7 | A4 black and white printer | Lenovo LJ2405 | PCS |
| 8 | IC card/NFC | R20C | PCS |
| 9 | Fingerprint sensor | ZAZ-060 | PCS |
| 10 | ID card reader | Second generation ID card | PCS |

| No. | Item | Specification | Unit |
|---|---|---|---|
| 11 | Metal password keypad | KY2088 | PCS |
| 12 | social security card | Eastcom second and third generation social security cards | PCS |
| 13 | Camera | Binocular camera | PCS |
| 14 | vertical housing | sheet metal | PCS |
| 15 | other | Consumables | PCS |

## Detailed Parameters

| No. | Item | Specification |
|---|---|---|
| 1 | LCD screen | LG BOE LCD screen A gauge Rated power: 10W*2 Peak power: 15W*2 Brightness ≥ 350 cd/m2 Response time < 5.5 ms Refresh frequency 60Hz Total number of colors 16.7M (8-bit 2 (LVDS) channel low-voltage differential signal) Viewing angle Horizontal ≥ 178 degrees Vertical ≥ 178 degrees Lifespan > 50,000 hours |
| 2 | touchscreen | Projected capacitive technology (capacitive touch screen) response time < 5ms touch points standard 10 touch, can achieve multi-touch functions such as enlargement and reduction of pictures touch recognition > 1.5mm scanning frequency 200Hz<br>Scanning accuracy 4096 × 4096<br>Communication method Full-speed USB 2.0, 3.0<br>More than 50 million theoretical clicks<br>Operating Current/Voltage 180Ma/DC +5V ± 5%<br>Anti-light interference Normal use when there is a change in bright light such as sunlight, incandescent lamps, fluorescent lamps, etc.<br>Touch data output mode coordinate output |

| No. | Item | Specification |
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| | | Surface hardness: Physical tempering, Mohs level 7 explosion-proof glass |
| 3 | motherboard | CPU: Intel Corei3-3110M processor clocked at 2.4GHz Memory: DDR3 4G Hard drive: Solid state drive, 128G |
| 4 | QR code | High-speed scanning, fast mobile scanning, clear dot-like quasi-system, compatible with one-dimensional and two-dimensional codes, supports scanning code payment business; supported media types: supports reading barcode information on various media such as paper, LCD, mobile phone screens, etc.; reading angle: two-dimensional barcode 360 Read QR codes in any direction; readable bar width <= 4MIL; reading width 5-30CM; decoding ability: decode one-dimensional barcodes, stacked/lined 2D barcodes and matrix 2D barcodes; support commonly used PDF417 2D barcodes, Datamatrix 2D barcodes, Code, Code and other code systems; decoding time is less than 2 seconds; light is illuminated diagonally downwards |
| 5 | 80 printer | Method Line thermal printing Paper width 80mm Paper speed 250 mm/s (max) Dot density 8 dots/mm Number of printing dots 576dots/line Printing width 72mm (max) Paper feeding method Easy paper loading Printing length 100KM Cutter Paper cutting method Sliding type Paper cutting conditions Half cutting, full cutting Paper cutting thickness 60 - 120 um Cutter life 1000,000 times Paper near end or last paper detection sensor Reflective photoelectric transmission |
| 6 | A4 black and white printer | Product positioning Commercial Maximum print size A4 Maximum resolution HQ1200, 600 × |

| No. | Item | Specification |
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| | | 600dpi<br>Print speed in black and white 28ppm<br>Processor 266MHz<br>Memory standard: 32MB, maximum: 32MB<br>Duplex Manual<br>Network function does not support network printing<br>Printability<br>First page print time is less than 8.5 seconds<br>Print Language GDI<br>Interface Type Hi-Speed USB2.0<br>Consumables<br>Consumable Type Drum Separation<br>Toner cartridge model LT2451, LT2451H<br>Black and white toner cartridge yield LT2451: 1500 pages, LT2451H: 2600 pages<br>Random toner: 2600 pages<br>Toner cartridge model LD2451<br>Toner Cartridge Life LD2451: 12000 pages, Random Toner Cartridge: 12000 pages<br>Media Specifications<br>Media type Plain, tissue, thick, extra thick, coated, envelope, thick envelope, thin envelope, recycled paper, label<br>Media size A4, Letter, B5 (JIS), A5, A5 (Long Edge), A6, Executive, 16K (195x270mm), 16K (184x260mm), 16K (197x273mm)<br>Media weight 60-163g/㎡<br>Feed tray capacity standard: 250 pages, single page feeder: 1 page<br>Output Tray Capacity 100 Sheets<br>Other Parameters<br>Display led<br>Product size 356 × 360 × 186mm<br>Product weight 6.6kg<br>System platform Windows 8.1/8/7/XP Home Edition/XP Professional Edition/XP Professional x64 Edition/Server 2003/Server 2003 x64 |

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| | | Edition/Vista/Server 2008/Server 2008 R2/Server 2012/Server 2012 R2<br>Mac OS X v10.7.5/10.8.x/10.9.x (Download only)<br>Linux: cups, LPD/LPRng (x86/x64 environment) error correction<br>Other features: watermark printing, multi-page merge printing, reverse printing, booklet printing, header and footer printing, poster printing, custom paper printing, ink-saving printing, toner density adjustment, check printing, support for printing workshops<br>Certification information: CCC, energy conservation certification, environmental certification, energy efficiency label |
| 7 | IC card/NFC | Supported cards: MF\S50\S70, CPU<br>Operating system: Windows 98\XP\2000\CE\7\ME\NT\LIUNX, Android<br>Card reading distance: 0~80MM<br>Card reading time: <100MS<br>Card reading speed: 0.2S<br>Card reading distance: 0.5S<br>Communication interface: USB interface<br>Size: 104MM×68MM×10MM<br>Power extraction method: USB power extraction<br>Weight: 140G<br>Working environment: temperature (-20℃~85℃) humidity (5%~95%)<br>Working voltage: 5V<br>Working current: 100mA<br>Indicator light: LED indicator light<br>Built-in speaker: buzzer, can control LED and buzzer<br>Output format: 10-digit decimal |
| 8 | Fingerprint sensor | Communication interface USB1.1/2.0<br>UART baud rate 57600bps (default)<br>Working voltage DC-5V (voltage range 5V±10%)<br>Working current 88mA |

| No. | Item | Specification |
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| | | Quiescent current 46mA<br>Antistatic ability GB/T 17626.2-2006, level 4<br>Anti-electromagnetic harassment ability GB/T 17626.3—2006, Level 2<br>sensor<br>Sensor type Capacitive sensor<br>Collection method: push type<br>Service life: more than 1 million times (parameters provided by the manufacturer)<br>Sensor size 20.4x33.4mm<br>Image pixel 256*288pixel<br>Image resolution 500dpi<br>Grayscale 8-bit, 256 levels<br>Fingerprint algorithm indicators<br>Acquisition time <0.25s<br>Comparison method 1:1 comparison or 1:N comparison<br><br>Comparison time <0.1S (1:1)<br>＜1.3S（1：1000）<br>Fingerprint capacity Default: 1000 pieces<br>Security level: 1 to 5 from low to high<br>False recognition rate (FAR) <0.001% (security level: 3)<br>True rejection rate (FRR) <0.5% (security level: 3)<br>Fingerprint feature value length 512 Bytes Working temperature<br>Recommended working temperature: -30~60C° Extreme temperature: -30~70C°<br>Storage temperature -30~70C°, recommended storage temperature: -10~20C°<br>Working humidity 20~90% RH<br>Storage humidity 16~95% RH<br>Recommended storage humidity: 20~80% RH |
| 9 | ID card reader | "Operating frequency: usually 13.56MHz, which is the international standard RFID frequency used for |

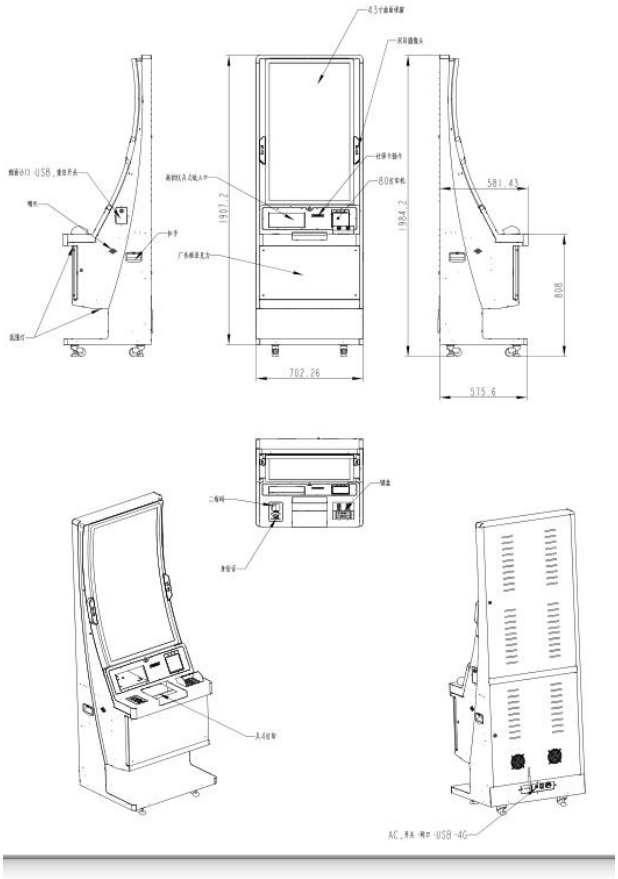
| No. | Item | Specification |
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| | | wireless communication with ID card chips.<br>Modulation method: Common ones are ASK (amplitude keying) and PSK (phase shift keying). Some devices support multiple modulation methods to be compatible with different standards.<br>Card reading distance: Generally 0-5cm, some high-end models can reach 3-5cm. The specific distance depends on the device design and the sensitivity of the ID card chip.<br>Card reading response time: Card reading and information decoding are usually completed within 1-2 seconds, and some high-speed models can reach within 0.5 seconds.<br>Supported standards: Complies with ISO/IEC 14443 Type B standard, and some devices also support Type A standard to be compatible with more types of RFID cards.<br>Interface type: Common ones include USB interface, RS232 serial port, Wiegand interface, etc. USB interface is the most common and supports plug and play.<br>Power supply: Most use USB power supply, some portable devices support battery power supply, the voltage is generally DC 5V.<br>Working temperature: Generally 0℃-50℃, some industrial-grade equipment can support a wide temperature range of -20℃-70℃.<br>Humidity requirements: Relative humidity is usually 20%-90% (non-condensation), and some equipment can work normally in high humidity environments.<br>Size and weight: The size of desktop card readers is generally around 100mm×100mm×30mm, and the weight is between 100-500 grams; portable card readers are smaller in size |

| No. | Item | Specification |
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| | | and lighter in weight.<br>Security module: Built-in security control module (SAM) authorized by the Ministry of Public Security, used to decrypt the information in the ID card chip to ensure data security.<br>Decoding method: It can be divided into two types: cloud service decoding and local decoding. Cloud service decoding needs to be connected to the Internet, and local decoding can be decoded directly through the built-in SAM module." |
| 10 | Metal password keypad | Product name: Numeric keyboard<br>Product model: KY-2088B<br>Product overview:<br>The product has a total of 16 buttons and is an embedded device that is widely used in the fields of financial equipment, communication equipment, military equipment and<br>A series of self-service terminal equipment fields.<br>Main features:<br>●The panel is made of high-quality SUS304 brushed stainless steel, which is anti-riot and anti-corrosion.<br>● SUS304 brushed stainless steel buttons (the characters can be laser etched when they are black)<br>● Button screen printing (etching) content can be customized according to customer requirements |
| 11 | Eastcom Social Security Card | Main processor Industrial grade 32-bit processor, frequency: 72MHz<br>Contactless card reading module<br>Supported standards: ISO/IEC 14443 A/B standard, supports ISO15693 protocol card;<br>Card categories: Mifare One, contactless Class A/B card, contactless CPU card;<br>Support rate: 106~424Kbps;<br>Contact card reading module |

| No. | Item | Specification |
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| | | Supported standards: ISO/IEC 7816 1/2/3 standards;<br>Card categories: contact CPU card, logical encryption card 4442/4428, Memory card, etc.;<br>Supported rate: 9600 ~ 307200bps;<br>Card insertion and removal life: more than 100,000 times;<br>SAM card holder comes standard with 4 SIM card holders that comply with GSM11.11<br>Magnetic stripe module (optional)<br>Supported standards: ISO/IEC 7811;<br>Supported magnetic tracks: 1/2/3; Track swiping direction: bidirectional<br>ID card module (optional) supports mainland ID card, Hong Kong, Macao and Taiwan residence permit, and foreigner permanent residence ID card<br>Working frequency 13.56MHz (fc)<br>Antenna radiation intensity<br>1) Antenna surface magnetic field strength (Hmax) ≤7.5A/m rms<br>2) The electromagnetic field strength (Hmin) at a distance of 2.5cm from the normal direction of the antenna surface is ≥1.5A/m<br>Reading distance: ID card: 0~5cm, no blind zone; contactless card: 0~5cm, no blind zone<br>Card reading speed <1S<br>Power supply DC5V—500mA<br>Communication method<br>USB: supports HID protocol, and the magnetic stripe module supports analog keyboard output protocol;<br>Communication rate: 12Mbps;<br>Line length 1.5 meters;<br>Serial port: RS232 interface, communication baud rate: 115200, line length 1.5 meters;<br>Support customized RS485 interface to achieve long-distance transmission;<br>Support customized active card reading, serial port output card reading |

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| | | information;<br>Mean time between failures >5000 hours<br>Usage environment<br>a) Working temperature: -20℃～60℃;<br>b) Storage and transportation temperature: -30℃～65℃;<br>c) Relative humidity: 20%~90%RH;<br>d) Atmospheric pressure: 60KPa ~ 110 Kpa;<br>Application environment: Applicable to Windows/Android/Linux/domestic systems/single chip microcomputer and other platforms; |
| 12 | Binocular camera | Industrial-grade binocular 2 million / 2 million high-definition wide dynamic image sensor · Black and white 40CM-1M, color 40CM to infinity clear imaging · Fixed 30 frames, no smear Black and white 1.5W, color 1.0W Ultra-low power consumption · -30℃~+70℃ wide temperature range stable operation ·USB2.0 high-speed transmission UVC architecture, compatible with Windows XP/7/8.1/10/vista/seven/Mac linux2.6.2 (include UVC) various systems |

## Overall Dimensions




Overall Dimension Reference