

2D-4600 | Area Imaging Scanner

The 4600 is a general purpose area imaging scanner targeting low to middle segments of the 2D market. With competitive pricing, outstanding performance, ergonomic design, and optimal functionality, it meets the demands of a wide variety of applications. The YJ4600 area imaging scanner offers both high performance and cost-efficiency.

2D barcodes are becoming increasingly popular and widely used in many industrial applications. QR Codes on high-speed train tickets, PDF 417 barcodes on airline boarding passes, and mobile phone coupons have all greatly contributed to the increasing prevalence of 2D barcodes.

Many enterprises have realized the importance of imaging technology, but the cost of most 2D scanners remains high. Many users find themselves caught between limited budgets and needing to upgrade their scanner technology to a 2D platform. Additionally, savvy purchasers are looking for a cost-effective scanning solution that can read images both on traditional paper and on other media forms, such as mobile screens.

The 4600 2D imaging scanner presents an affordable solution for enterprises who wish to upgrade their equipment. Not only does it accurately and efficiently read both 1D and 2D barcodes, it also seamlessly captures barcodes on electronic screens (such as a mobile phone) and provides an effective data capturing tool for e-coupons and e-tickets. With advanced imaging and decoding technology, the YJ4600 has a superior first-pass read rate on poorly printed and low quality bar codes. This product is an ideal choice for a wide variety of applications, including aviation and railway transportation, banking and securities, e-tickets, and many more.



Features

- **Cost-effective:** Competitive pricing, outstanding performance
- **Compact, lightweight, user-friendly design:** Fast and accurate scanning, elegant and ergonomic design allows for a natural and comfortable grip
- **Versatile scanning modes:** Supports both manual and presentation scanning modes with automatic object detection and scanning. It also supports mobile phone read mode
- **Advanced decoding software:** Cutting-edge decoding technology, able to scan both 1D and 2D barcodes quickly and accurately
- **Reliable data capture ability:** Supports most standard 1D and mainstream 2D symbology, as well as those on electronic screens (such as mobile phones)
- **Future-proof investment:** Protects your future investment with 2D capability at an affordable price meeting both current and future barcode scanning needs

4600 Technical Specifications

Mechanical

Dimensions (length x width x height): 170mm x 66mm x 85mm

Weight: 120g

Electrical

Input Voltage: 4 ~ 5.5 V DC

Operating Power: 2W; 400 mA @ 5V - typical

Standby Power: 0.45w, 90mA@ 5V - typical

DC Power: Class2; 5.2VDC@1°

EMC: EN55022, EN55024 class B

LED Safety Certification: IEC62471

CB: IEC60950

Comprehensive Certification: GOST-R (Russia), CE

Environmental

Operating Temperature: 0°C - 40°C

Storage Temperature: -40°C - 60°C

Humidity: 5% - 95% relative humidity, non-condensing

Light Levels: 0 - 100,000LUX

Drop: designed to withstand falls from a height of up to 1.0m

Environmental Sealing: Sealed to resist airborne particulate contaminants

IP Level: IP40

Motion Tolerance: 100mm per second, 13 mil UPC

Performance

Light Source: white LED

Sight: Red LED, 617nm

Visual Indicators: Green = decoding successful; Red = decoding failed

System Interface: KBW, USB

Scan Pattern: Image

Scan Angle: Pitch $\pm 70^\circ$, Tilt $\pm 60^\circ$, Rotation $\pm 180^\circ$

Print Contrast: Minimum 35% contrast

Decoding: supports most standard 1D and mainstream 2D symbology, as well as those on electronic screens (such as mobile phones)



Typical Performance*

Narrow Width	Depth of Field
5 mil Code39	42mm - 111mm
13 mil UPC-A	36mm - 261mm
20 mil Code 39	41mm - 361mm
6.7 mil PDF417	41mm - 106mm
10mil Data Matrix	41mm - 111mm
15mil Data Matrix	30mm - 170mm
20mil QR	31mm - 211mm

Resolution: 4 mil

*Performance may be impacted by bar code quality and environmental conditions