

AF4680-GNU | Area Imaging Scanner

The AF4680 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 AF4680 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 AF4680 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 AF4680 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

Technical Specifications

Mechanical

Dimensions (length x width x height): 83mm x 66.5mm x 162mm

Weight: 190g w/cable

Electrical

Input Voltage: 5 ~ 5.5 V DC

Operating Power: 180 mA @ 5V - typical

Standby Power: 160mA@ 5V - typical

EMC: EN55022, EN55024 class B

LED Safety Certification: IEC62471

Performance

Light Source: white LED

Sight: Red LED, 617nm

SENSOR TECHNOLOGY 640 x 480 Global Shutter

System Interface: USB

Scan Pattern: Image

Scan Angle: Pitch $\pm 45^\circ$, Tilt 360° , Skew $\pm 45^\circ$

Print Contrast: Minimum 20% contrast

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

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

Motion Tolerance: 100mm per second, 13 mil UPC

Typical Performance*

Narrow Width	Depth of Field
5 mil Code39	35mm - 170mm
13 mil UPC-A	36mm - 380mm
20 mil Code 39	60mm - 730mm
7 mil PDF417	45mm - 150mm
10mil QR	30mm - 170mm
20mil QR	26mm - 355mm

Resolution: 3 mil

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