

AF5780-GNU | Area Imaging Scanner

The AF5780 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 AF5780 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 AF5780 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 AF5780 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: 200 mA @ 5V - typical
EMC: EN55022, EN55024 class B
LED Safety Certification: IEC62471

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

Performance

Light Source: white LED
Sight: Green cross LED
Sensor technology: 1280 x 800 Global Shutter
Field of view: 47 ° horizontal ,30 ° vertical
System Interface: USB
Scan Pattern: Image
Scan Angle: Pitch ± 60 °, Tilt 360 °, Skew ± 60 °
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)



Green cross LED

Typical Performance*	
Narrow Width	Depth of Field
5 mil Code39	60mm - 275mm
13 mil UPC-A	40mm - 490mm
20 mil Code 39	61mm - 790mm
6.67 mil PDF417	62mm - 270mm
10mil QR	30mm - 170mm
20mil QR	27mm - 440mm
Resolution: 3 mil	
*Performance may be impacted by bar code quality and environmental conditions	