



iQ[®]160 is a linear CCD camera system providing high resolution images. It is designed for high-speed reading of linear bar codes and 2D symbologies. Incorporating a built-in laser illumination system, the iQ160 provides an all-in-one scanning solution ideal for a wide array of applications.

iQ[®]160

Features

- High-speed, high-resolution linear CCD based camera
- Large depth of field with no moving parts
- Wide field of view
- Built in co-planar laser illumination
- Optical Character Recognition (OCR) and image lift compatible
- Decoding of 1D bar codes and 2D symbologies
- No belt level components

Applications

- High-speed, small package scanning
- Parcel handling
- Sortation systems
- Wholesale, retail, and mail order distribution
- Returns processing
- E-commerce fulfillment
- Flat mail sorting and collation
- Manual presentation scanning

If you need high-speed imaging over a wide field of view and the capability to decode 1D or 2D labels then the iQ160 is the cost effective and powerful solution. Having a variety of lens options makes this system highly customizable to provide the optimal scan area for a variety of applications.

As with the entire iQ product line, the iQ160 is compact, modular and loaded with features. The camera module has a 6k or 8k high-resolution CCD line scan array. Of special note is the unique coplanar laser illumination characteristic of the iQ line. This illumination system has many advantageous features including marking a clear decode line for easy alignment, running cool to the touch, essentially eliminating glare, and providing crisp, clean images.



Working in conjunction with the iQ160 is an iQTroller where bar code decoding and data exchange take place with Ethernet, RS232, or optional fiber communication. A QTrace module can be added to the system providing more flexibility and functionality including dimensional data, and belt speed information. Each of these modules is enclosed in a compact, rugged housing. All this means fast and easy setup, reliable operation, and the power to aggressively read your bar codes—even under plastic.

Outstanding reliability, accuracy, and diagnostic capability are what you expect and that is what AOA delivers in a cost-effective, feature rich camera based solution.

Decodes:



iQ[®]160

OPERATIONAL

Light Source	Co-planar, multi-laser illumination
Laser Power	23 mW per VLD
Minimum Bar Width 1D	0.18 mm (7 mil)
Depth of Field	762 mm - 864 mm (30" - 34") for 0.33 mm (13 mil) bar code
Field of View	584 mm (23") F.O.V. @ 762 mm (30") for 0.33 mm (13 mil) bar code 635 mm (25") F.O.V. @ 864 mm (34") for 0.33 mm (13 mil) bar code
Scan Speed	Up to 16,000 lines/sec
Focus	Configurable fixed focus
Orientation	Omnidirectional
Decode capability	1D: autodiscriminates all standard bar codes 2D: MaxiCode, PDF417, Datamatrix, RSS-14 composite, QR
Image output	8 bit greyscale or binary
System interfaces	Bar code: RS232, Point to Point RS422, fiber optional Image: Ethernet, LVDS optional, fiber optional
Print contrast	35% minimum reflectance difference
PC Decoder	1.3 GHz Pentium III; 256 MB SDRAM; Windows 2000 Professional, SP-3 Ethernet option; Modem option
Conveyor speeds	Up to 2.75 meters/sec (540 feet per minute)(Application and code specific)

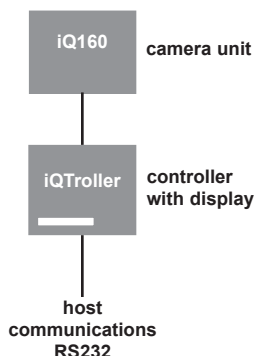
MECHANICAL

Dimensions	
iQ160 Camera	230 mm L x 405 mm W x 135 mm H (9.0" x 16.0" x 5.3")
iQTroller	356 mm L x 356 mm W x 173 mm H (14.0" x 14.0" x 6.8")
Weight	
iQ160 Camera	9.1 kg (20 lbs)
iQTroller	10.9 kg (24 lbs)

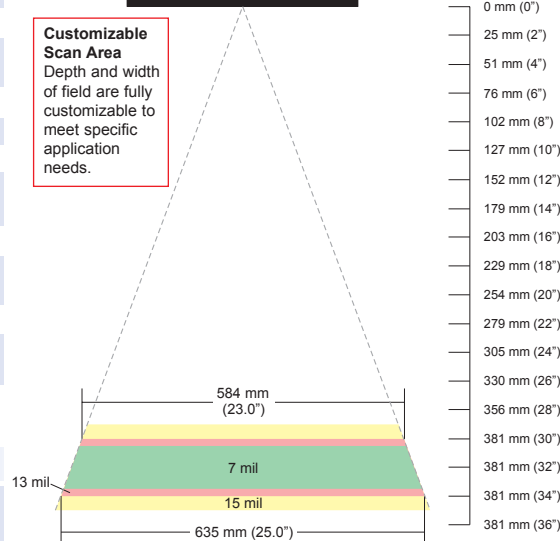
ELECTRICAL

Input Voltage	115 VAC
Power	288 VA
Operating Current	2.5A @ 115 VAC
DC Transformers	NONE
Laser Class:	CDRH & IEC: Class 2 according to IEC 60825-1:1993+A11997+A2:2001
EMC:	FCC Class A, CISPR Class A

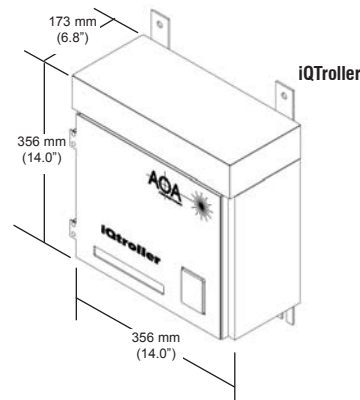
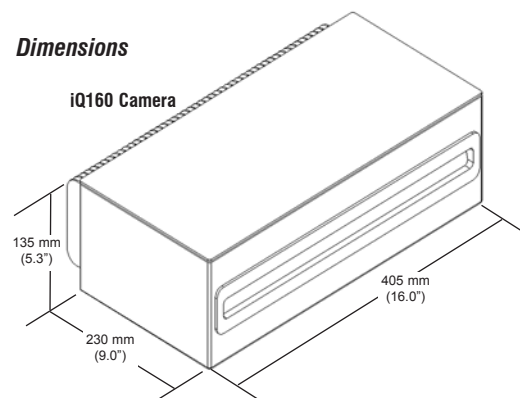
Operating Temperature	4°C to 43°C (40°F to 110°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Contaminants	Protects against dust, falling dirt, and dripping noncorrosive liquid
Ventilation	None required



Customizable Scan Area
Depth and width of field are fully customizable to meet specific application needs.



Dimensions



Specifications subject to change without notice.
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