qSCAN

Outdoor 2-D Barcode Scanner

Qscan is the perfect outdoor reader to read print-at-home event tickets, driver's licenses, and even qr codes from smartphone displays.

Qscan reads over 30 barcode sybologies, including Code39, Interleaved 2 of 5, PDF417, Datamatrix, Aztec, and QR.

Features & Options

- Fast Decoding
- Programmable formatting options allow you to choose which data to read from the barcode and how to transmit it
- Available with a 2x16 lcd display, readable in direct sunlight
- 12Vdc operation
- Reads CAC and NCAC barcodes
- Optional Relay
- Optional digital inputs for door sensing or an arming loop
- Optional RF (prox, Iclass, PIV-II)

Interfaces

- Rs232
- TCP / IP
- Wiegand
- ABA
- HID 5352
- F2F
- Wand Emulation

ibc®
International Bar Code

International Barcode 160 Oak St. Glastonbury, CT 06033 **phone:** 860.659.9660 **fax:** 860.657.3860 **e-mail:** sales@interbar.com **web:** http://interbar.com

Specifications

Barcode Read Range	3”-18” depending on size of barcode
Symbologies (1D):	Code 39, I 2 of 5, 2 of 5, 5, Code 128, Codabar, Ean8, Ean13, Jan8, Jan13, Upce, Upca, M2of5, K3of5, Postnet, Postbar, Kix, Planet, Msi, Code11, Code93
Symbologies (2D):	Pdf417, QR, Aztec, Datamatrix
Interfaces:	Wiegand, up to 250 bits, aba, f2f, wand, Rs232, TCP / IP, Hid 5352
RF (optional):	125khz prox (hid,awid,farpointe), Iclass, Iclass SE, Iclass SR, Iclass SEOS, Piv-II, Mifare
Relay (optional):	Form C, 500ma max
Display (optional):	LCD, 2 lines by 16 characters, viewable in direct sunlight
Digital Inputs (optional):	2, one may be programmed for an arming loop
Tcp/ip	10/100 autodetect
Power Consumption:	500ma typical, 12vdc
Material:	Black polycarbonate
Dimensions:	6.4” L x 4.4” W x 2” H , Flange 8” L x 4.7” W
Weight	1 lb.
Outdoor Rating:	IP65
Mounting:	Front Side Flange
Indicators	2 programmable LEDs
Temperature	-40°C to +85°C
Standard Wiring (Fixed):	3ft (91.5cm) cable with DB9 female (RS232), flying leads (wiegand, aba, wand, f2f) or RJ45 (TCP / IP)

Wiring

Wiring Connections for various Interfaces.

Rs232 Interface

Red	+VDC
Blue	GND
Green	Reader Transmit
Yellow	Reader Receive

Wiegand / ABA / Wand Interface/F2F

Red	+VDC
Blue	GND
White	Data 1 / Mag Data / Wand / F2F
Green	Data 0 / Mag Clock
Orange	Green LED
Yellow	Bi-color LED

Relay Wiring (All Readers)

Yellow	Normally Closed
Green	Normally Open
Red	Common

Sense Input Wiring

Yellow	Sense Input 1
Orange	Sense Input 2

Sense Input Wiring

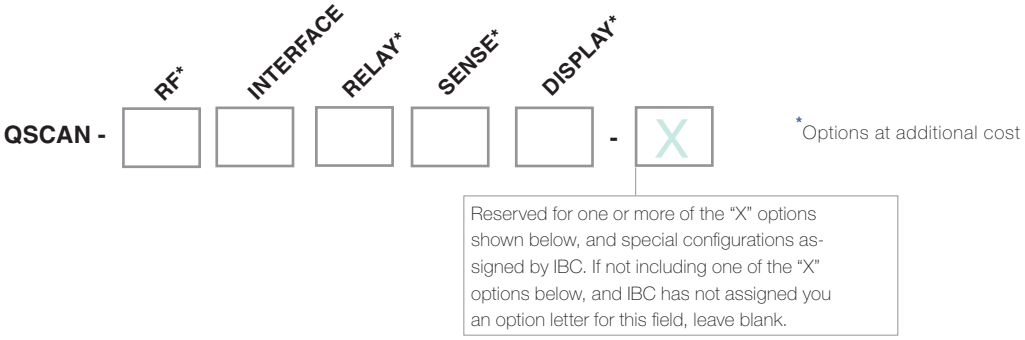
Yellow	Sense Input 1 or Arming Loop
Orange	Sense Input 2

TCP

RJ45 Plug

How to Order

Order Qscan with a code to indicate options required.



*Options at additional cost

RF
- No RF - 0
- Hid, Farpointe Prox – H
- Iclass,Mifare- I[3]
- Iclass[3] & Hid/Awid Prox - B
- PIV-II - P

INTERFACE[1]
- Rs232 – S
- TCP / IP – C
- Wiegand/aba/f2f/wand - G

RELAY[4]
- No Relay – 0
- Relay - R

SENSE INPUTS[2]
- No Sense Inputs - 0
- Sense Inputs - S

DISPLAY
- No Display - 0
- Display - D

X
- POE - P

[1]For Hid 5352 emulation order RS232

[2]For Armed Loop use, order Sense Inputs

Sense inputs available only with RS232 or TCP interfaces

[3]HID Application Area PACS data from Iclass, Iclass SE, Iclass SR, Iclass SEOS, Mifare S/N

Reads the Physical Access Data number from the card. For Iclass or Mifare sector reading contact IBC

[4]Relay available only with RS232 or TCP interfaces

Examples

Examples of ordering codes for Qscan.

Hid 5352 with Arming Loop

QSCAN-0S0S0

Qscan with:
- No RF - 0
- RS232 Interface - S
- No Relay - 0
- Sense Inputs - S
- No Display - 0

TCP / IP w/Iclass

QSCAN-IC000

Qscan with:
- Iclass - I
- TCP Interface - C
- No Relay - 0
- No Sense Inputs - 0
- No Display - 0

Wiegand

QSCAN-0G000

Qscan with:
- No Rf - 0
- Wiegand Interface - G
- No Relay - 0
- No Sense Inputs - 0
- No Display - 0

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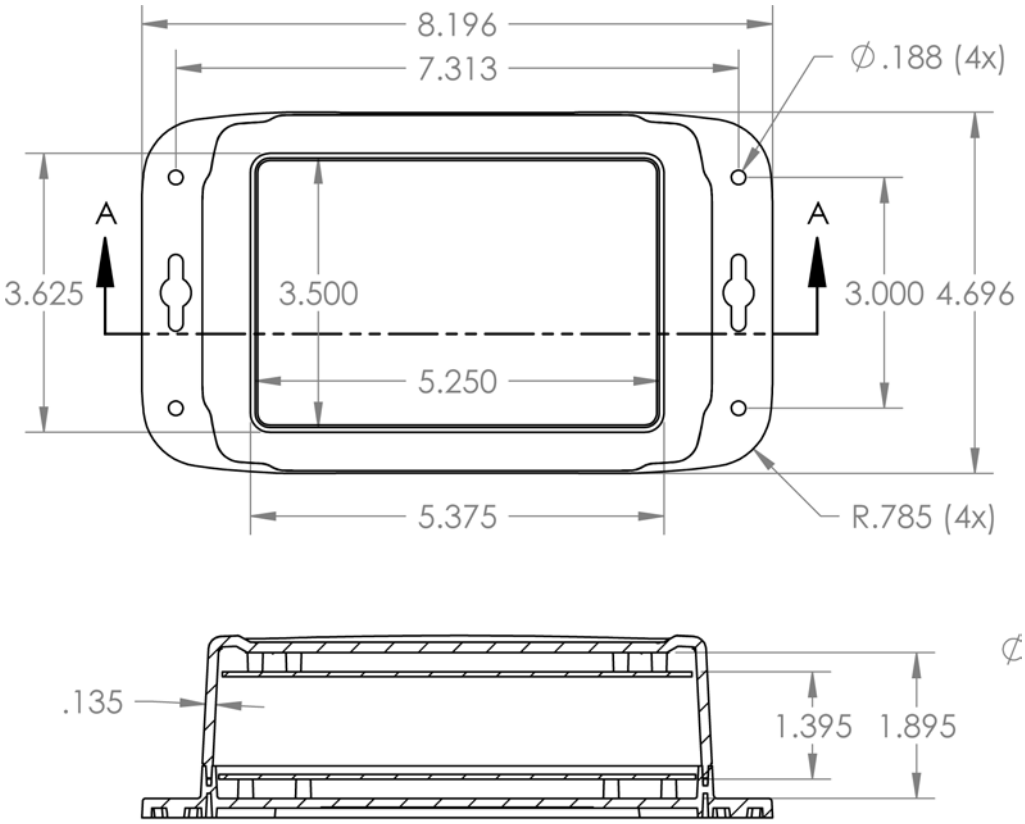
Dimensional Diagrams

Dimensional Measurements for the Qscan reader.



Notes for Ordering Qscan

POWER

Qscan readers are powered by 12Vdc. You can use your own power source or request an AC adapter from IBC when ordering.

WIRING

Standard wiring for Qscan readers with wiegand, aba, wand, or f2f is a 3' cable containing all data wires and power wires.

Standard wiring for RS232 readers is a 3' cable with a DB9 female connector. The pinout is a direct connect to a pc. Connected to the DB9 connector is a short power pigtail for applying power or connecting an ac adapter.

Standard wiring for Qscan readers with tcp/ip is a 3' cable with an rj45 plug.

RF

Qscan can be ordered with embedded proximity to read Hid, Awid, and Farpointe cards. Qscan can also be ordered with embedded 13mhz support to read either Hid Iclass cards or cards which support PIV-II applications (Cac, Twic, etc..)

SENSE INPUTS

2 digital inputs may optionally be ordered.The digital inputs can be used for a door sense or gate sense, or for an arming loop to enable/disable reading.

RELAY

The optional relay is a form C relay and has a separate wire exiting the rear of the reader containing the isolated relay lines.

DISPLAY

The optional 2 line x 16 character display is an IBC proprietary FSTN LCD display, and is able to be read in direct sunlight and at wide angles.

For custom wiring or firmware contact IBC.

qSCANI

Indoor 2-D Barcode Scanner

Qscan is the perfect reader to read employee id's, visitors badges, print-at-home event tickets, driver's licenses, and even qr codes from smartphone displays.

Qscan reads over 30 barcode sybologies, including Code39, Interleaved 2 of 5, PDF417, Datamatrix, Aztec, and QR.

Proximity, iClass©, and PIV-II reading also available.

Features & Options

- Fast Decoding
- Programmable formatting options allow you to choose which data to read from the barcode and how to transmit it
- 12Vdc operation
- Reads CAC and NCAC barcodes
- Optional Relay
- Optional digital inputs for door sensing or an arming loop
- Optional RF (Prox, Iclass, PIV-II)
- Single Gang Mounting

Interfaces

- Rs232
- TCP / IP
- Wiegand
- ABA
- HID 5352
- F2F
- Wand Emulation
- USB Serial
- Usb Keyboard

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Symbologies (1D):	Code 39, I 2 of 5, 2 of 5, Code 128, Codabar, Ean8, Ean13, Jan8, Jan13, Upce, Upca, M2of5, K3of5, Postnet, Postbar, Kix, Planet, Msi, Code11, Code93
Symbologies (2D):	Pdf417, Micropdf, QR, Aztec, Datamatrix
Interfaces:	Wiegand, up to 250 bits, aba, f2f, wand, Rs232, TCP / IP, Hid 5352, USB serial, USB keyboard
RF (optional):	125khz prox (hid,awid,farpointe), Iclass, Iclass SE, Iclass SR, Iclass SEOS, Piv-II,Mifare
Relay (optional):	Form C, 500ma max
Digital Inputs (optional):	2, one may be programmed for an arming loop
Power Consumption:	500ma typical, 12vdc
Material:	Beige or Charcoal ABS
Dimensions:	5.5” H x 4.25” W x 1.4” D
Weight	1 lb.
Mounting:	Concealed Front, Single Gang
Indicators	2 programmable LEDs
Temperature	-40°C to +85°C
Standard Wiring (Fixed):	3ft (91.5cm) cable with DB9 female (RS232), flying leads (wiegand, aba, wand, f2f), RJ45 (TCP / IP), 5ft USB Type A (USB serial or keyboard)

Wiring

Wiring Connections for various Interfaces.

Rs232 Interface

Red	+VDC
Blue	GND
Green	Reader Transmit
Yellow	Reader Receive

Wiegand / ABA / Wand Interface

Red	+VDC
Blue	GND
White	Data 1 / Mag Data / Wand
Green	Data 0 / Mag Clock
Orange	Green LED
Yellow	Bi-color LED

F2F

Red	+VDC
Blue	GND
White	Reserved
Green	Reserved
Orange	Green LED
Yellow	Bi-color LED
Brown	F2F

Relay Wiring (All Readers)

Yellow	Normally Closed
Green	Normally Open
Red	Common

Sense Input Wiring

Yellow	Sense Input 1 or Arming Loop
Orange	Sense Input 2

TCP

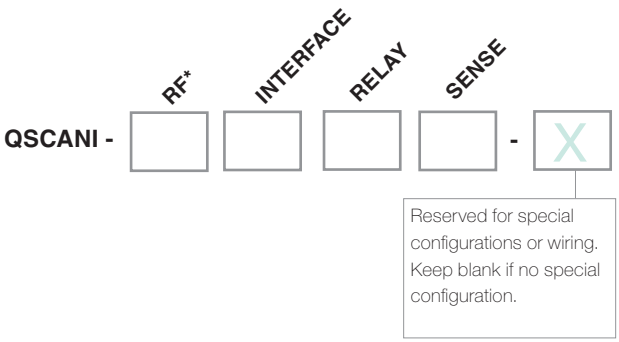
RJ45 Plug

USB

Type A USB (connection to PC)

How to Order

Order Qscani with a code to indicate options required.



RF
- No RF - 0
- Hid, Farpointe Prox – H
- Iclass,Mifare- I[3]
- Iclass[3] & Hid/Awid Prox - B
- PIV-II - P

INTERFACE[1]
- Rs232 – S
- TCP / IP – C
- Wiegand/aba/wand - G
- F2F - F
- USB Serial - U[5]
- USB Keyboard - K[5]

RELAY[4]
- No Relay – 0
- Relay - R

SENSE INPUTS[2]
- No Sense Inputs - 0
- Sense Inputs - S

SPECIAL (X)
- Charcoal Color - C

[1]For Hid 5352 emulation order RS232

[2]For Armed Loop use, order Sense Inputs

Sense inputs available only with RS232 or TCP interfaces

[3]HID Application Area PACS data from Iclass, Iclass SE, Iclass SR, Iclass SEOS, Mifare S/N

Reads the Physical Access Data number from the card. For Iclass and Mifare sector reading contact IBC

[4]Relay available only with RS232 or TCP interfaces

[5]USB Serial and Keyboard interfaces require a power supply. Qscani cannot be powered from the USB port

Examples

Examples of ordering codes for Qscani.

RS232 with Digital Inputs

QSCANI-0S0S

Qscan indoor with:
- No RF - 0
- RS232 Interface - S
- No Relay - 0
- Sense Inputs - S

TCP / IP w/Iclass

QSCANI-IC00

Qscan indoor with:
- Iclass - I
- TCP Interface - C
- No Relay - 0
- No Sense Inputs - 0

Wiegand w/Iclass & Prox

QSCANI-BG00

Qscan Indoor with:
- Iclass & Prox - B
- Wiegand Interface - G
- No Relay - 0
- No Sense Inputs - 0

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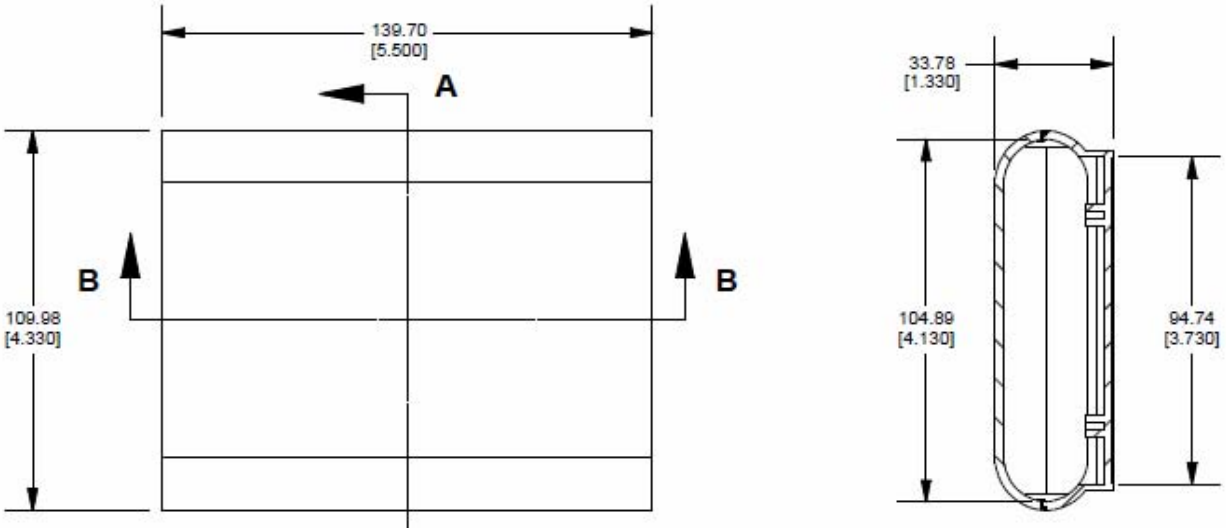

Notes for Ordering Qscani

POWER

Qscan readers are powered by 12Vdc. You can use your own power source or request an AC adapter from IBC when ordering. If connecting to an access panel verify that the panel can supply the required power to operate the Qscan.

WIRING

Standard wiring for Qscan readers with wiegand, aba, wand, or f2f is a 3' cable containing all data, led, and power wires.

Standard wiring for RS232 readers is a 3' cable with a DB9 female connector. The pinout is a direct connect to a pc. Connected to the DB9 connector is a short power pigtail for applying power or connecting an ac adapter.

Standard wiring for Qscan readers with tcp/ip is a 3' cable with an rj45 plug.

Standard wiring for Qscan readers with a USB interface is a 5' cable with a USB type A connector.

RF

Qscan can be ordered with embedded proximity to read Hid, Awid, and Farpointe cards. Qscan can also be ordered with embedded 13mhz support to read either Hid Iclass cards (HID Application Area PACS data), or cards which support PIV-II applications (Cac, Twic, etc..). Qscan can also be ordered to read both Hid prox and Iclass.

SENSE INPUTS

2 digital inputs may optionally be ordered. The digital inputs can be used for a door sense, gate sense, arming loop, or request to exit. Sense inputs are available with RS232 and TCP interfaces..

RELAY

The optional relay is a form C relay and has a separate wire exiting the rear of the reader containing the isolated relay lines. A Relay is available with RS232 and TCP interfaces.

For custom wiring or firmware contact IBC.

qSCAN MINI

Compact 2-D Barcode Scanner

Measuring only 2 3/8 x 2 5/8, Qscan Mini is perfect for inclusion in Turnstiles and Kiosks. With an automatic sensing mechanism, Qscan Mini reads Visitor Badges, QR Codes, Driver's Licenses, and Event Tickets with ease. Over 30 barcode symbologies are supported, and best of all - the wiegand/aba/f2f interface makes connection to panels effortless.

Features & Options

- Fast Decoding
- Programmable formatting options allow you to choose which data to read from the barcode and how to transmit it
- 8-30Vdc operation
- Reads CAC and NCAC barcodes
- Arming Loop support

Interfaces

- Wiegand
- ABA
- F2F
- Wand Emulation

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Symbologies (2D):	Pdf417, Micropdf, QR, Aztec, Datamatrix
Interfaces:	Wiegand, up to 250 bits, aba, f2f, wand emulation
Digital Input:	Arming Loop/Activation control
Power Consumption:	110ma typical @ 12vdc
Material:	Black ABS
Dimensions:	1.25” H x 2.38” W x 2.65” D
Weight	3 oz.
Mounting:	2 screw bosses, #4
Indicators	Good Read beep
Temperature	-40°C to +85°C
Wiring:	Terminal block

How to Order

Ordering codes for Qscanmini

QSCANMINI-G0 Wiegand/ABA/F2F/Wand Interface (programmable)

qSCAN-t

Embedded Reader for Turnstiles, Kiosks, and Walls

Integration of multiple technologies was never this easy. With Qscan-t you can read 1D and 2D barcodes, proximity cards, and 13.5mhz smart cards including Iclass SE and Mifare.

Over 30 barcode symbologies are supported, and best of all - the wiegand/aba/f2f interface makes connection to panels effortless and the TCP/IP interface allows for easy network integration.

Features & Options

- Fast Barcode Decoding
- Programmable formatting options
- 8-30Vdc operation
- Reads CAC,USIC and NCAC barcodes
- Reads QR codes and Driver's Licenses
- Prox support for Hid, Indala, and Awid
- 13.56mhz support for Iclass, Iclass SR, Iclass SE, Mifare, PIV, Felica.
- Iclass reading - Programmed ID number, CSN, or sector.
- Mifare reading - CSN or sector on Classic, Desfire, Plus, and Ultralight
- Optional Faceplates
- Custom screw boss lengths available for oem mounting

Interfaces

- Wiegand
- ABA
- F2F
- Wand Emulation
- TCP/IP

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Symbologies (2D):	QR, Pdf417, Micropdf, Aztec, Datamatrix
Interfaces:	Wiegand, up to 250 bits, aba, f2f (ttl level), wand emulation, Tcp/ip
RF (optional):	125khz prox (hid,awid,Indala), Iclass, Iclass SE, Iclass SR, Iclass SEOS, Piv-II, Mifare, Felica
Power Consumption:	500ma @ 12vdc peak, 200ma typical
Material:	Black ABS
Dimensions:	5” x 3.5” x 3.25” H (without faceplate) approx.
Weight	10 oz.
Mounting:	4 screw bosses, #6
Indicators	Good Read beep, Internal Led indicator
Temperature	-40°C to +85°C
Wiring:	Terminal block (wiegand,aba) or RJ45 jack (Tcp/ip)

How to Order

Ordering codes for Qscan-t

QSCANT-0G0	**Barcode Only**	**Wiegand/ABA/F2F/Wand Interface (programmable)**
QSCANT-0C0	**Barcode Only**	**Tcp/ip Interface**
QSCANT-BG0	**Barcode + Prox + 13.56mhz**	**Wiegand/ABA/F2F/Wand Interface (programmable)**
QSCANT-BC0	**Barcode + Prox + 13.56mhz**	**Tcp/ip Interface**
QSCANT-IG0	**Barcode + 13.56mhz**	**Wiegand/ABA/F2F/Wand Interface (programmable)**
QSCANT-IC0	**Barcode + 13.56mhz**	**Tcp/ip Interface**