



FI320

Fixed Mount Area Imager Barcode Scanner

SCANTECH ID[®]
CHAMPTEK Group

Introduction

The FI320 is a high performance, omni-directional area imager barcode scanner. It uses digital imaging technology to provide intuitive and fast reading of 1D and 2D barcodes as well as supporting more advanced features like image capture deactivation. It is designed for various built-in and OEM solutions, such as self-service kiosks, POS (Point-of-Sales) terminals, ATM, Price checkers, healthcare and mobile device solutions etc.

It supports up to 300mm reading depth of 1D and 2D barcode, its scan rate is up to 60 images per second. Based on CMOS technology for optimal image sensitivity and dynamic range, the FI320 features scanning speeds two times faster than traditional 2D imagers.

FI320 is a high performance area imager scanner, provides customers with the most cost-effective solution in the market and perfectly suitable and definitely the best choice for any OEM and built-in application.

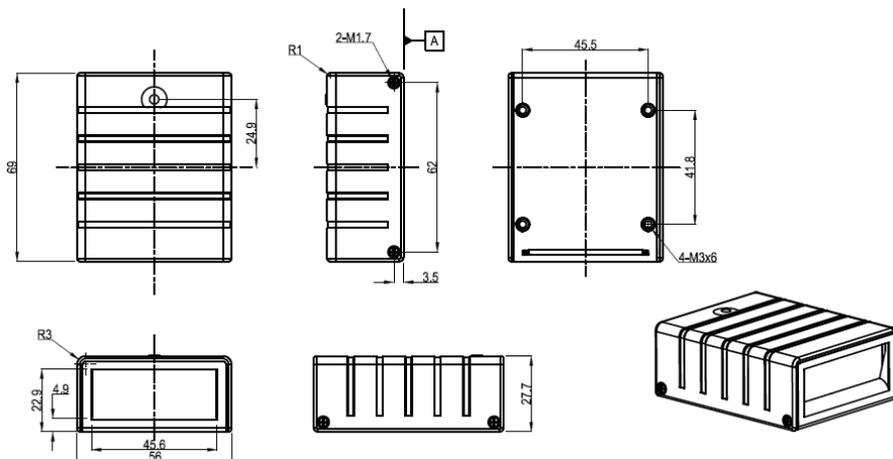
Features

- Captures barcodes on mobile phone, tablet, or computer screens.
- Easily integrated with various OEM applications with 1D and 2D barcode scanning.
- Support various configurable reading modes.
- Clear aiming spot that makes barcode capture easily.
- With an optional stand is flexible for external application requirement.

FI320

Reading Range

Barcode	Depth of field
4mil Code39	40~80 mm
5mil Code39	40~110 mm
6mil Code39	40~120 mm
10mil Code39	40~180 mm
13mil Code39	30~250 mm
20mil Code39	30~300 mm
20mil QRCode	40~170 mm
10mil PDF417	35~120 mm
20mil PDF417	50~150 mm
20mil Data Matrix	50~200 mm



Specifications

Physical Characteristics

Weight

Body weight Approx. 3 oz (85g)

USB Cable weight Approx. 1.79 oz (51g)

RS232 Cable weight Approx. 2.32 oz (66g)

Material Polycarbonate

Dimension 56 mm W x 69 mm D x 28 mm H

Electrical Characteristics

Interface	RS232	USB-HID(or Virtual COM port)
	DC Adaptor	USB Power
Supply Voltage	DC+5V±5%	DC+5V±5%
Current Draw	±10%	±10%
Stand by (Typ.)	180mA	180mA
Operation (Typ.)	360mA	360mA

Environmental

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage Temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Relative Humidity	20% to 95% (Non-condensing)
Ambient Light	Works in any lighting conditions from 0 to 100,000 lux

Performance

Light Source	Visible red light 625nm(±5nm) LED
Scan Rate	60 images per second
Sensor Resolution	752 (H) x 480 (V) pixels
Field of View	Horizontal -40°, Vertical -25°
Indicator	Good read beep

Reliability

Life Time	
MTBF(Calculated)	50,000 hours
Thermal Shock	
Low Temp.	-20 °C (-4°F)
Cycle time	30 minutes for high temp., 30 minutes for low temp.
Cycles	24 cycles
Mechanical Shock	2000G,0.7ms,half sinus,3axes'

Readable Symbolologies

1D Symbolologies

UPC-A,UPC-E,EAN-8/JAN-8,EAN-13/JAN-13,Code 39,Code 128, Interleaved 25,Industrial 25,Matrix 25,Codabar/NW7, Code 93,China Post,MSI/Plessey,Telepen,GS1 Databar Omni-directional,GS1 Databar Limited, GS1 Databar Expanded

2D Symbolologies

Data Matrix,PDF 417,QR Code
Option :
Aztec,Maxi Code,Micro PDF 417,Micro QR Code,Han Xin Code,GM Code

Due to Champtek's / Scantech ID's continuing product improvement programs, specifications and features are subject to change