SPECIFICATIONS

Customer	
Attention	
Your Model No.	
TYSSO Model No.	CD-620 / FCCD-620 Series
Date	Sept.21,2004
Sample Serial No.	

RECEIPT STATUS
RECEIVED
 Date

 Signature

 Title

A. General

This CCD Bar Code scanner module is well designed with high quality components. The improved digitizer provides very accurate barcode scanning signal to decoders. With different scanning ranges, It's ideal to meet the application requirement. Because it has the compact and small dimensions, integrating this module to most of housings is a easy job. It simplifies the development process and can save developing time. The TTL output allows the scanner module to be universally accepted by most decoders.

The built-in decoder is an advanced and versatile decoding facility for bar coding systems. It works with variety of bar code types and computer interfaces.

✴ Compact Size
   Convenient fit in most of housing
✴ Single 5 Volts Power Supply
   Simplified connection to one input power source
✴ TTL Signal Output (TTL version)
   Standard signaling for connecting to most decoders
✴ Low Distortion in TTL Signal Output
   Easy to decode with most decoders

B. Models

CD-620 [ ] (Without Housing)

Interface

T : TTL
R : RS232
K : Keyboard

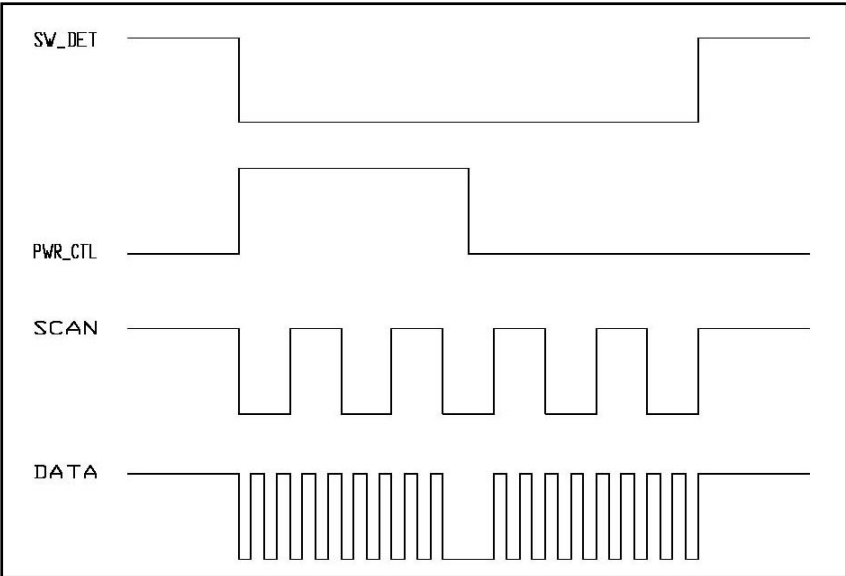### FCCD-620 [ ] (With Housing)

Interface

R : RS232
K : Keyboard

C. Optical Characteristic

Light Source	660nm
Sensor	CCD Sensor with 2048 pixels
PCS	Up to 0.45
Scan Rate	100 scans / sec.
Ambient Light	2000 Lux max. (Fluorescent)
Depth of Field	4" (100mm) for 20 mil (0.50mm) barcode
Resolution	4 mil (0.1mm)

D. Electrical Characteristics

| Supply Voltage	DC +5V ±5%
Output Voltage (Typ.) Output Voltage (Min.)	+5V 4.5V
Logic High Logic Low	Space/Bar (Optional) Bar/Space (Optional)
Power Consumption Stand by (Max.) Operation (Max.)	 30mA for TTL model, 40mA for Decoded model 90mA for TTL model, 40mA for Decoded model
Power Enable Control	Active High

Timing Diagram

E. Physical Characteristics

Weight: 24g for TTL model and 33g for decoded model
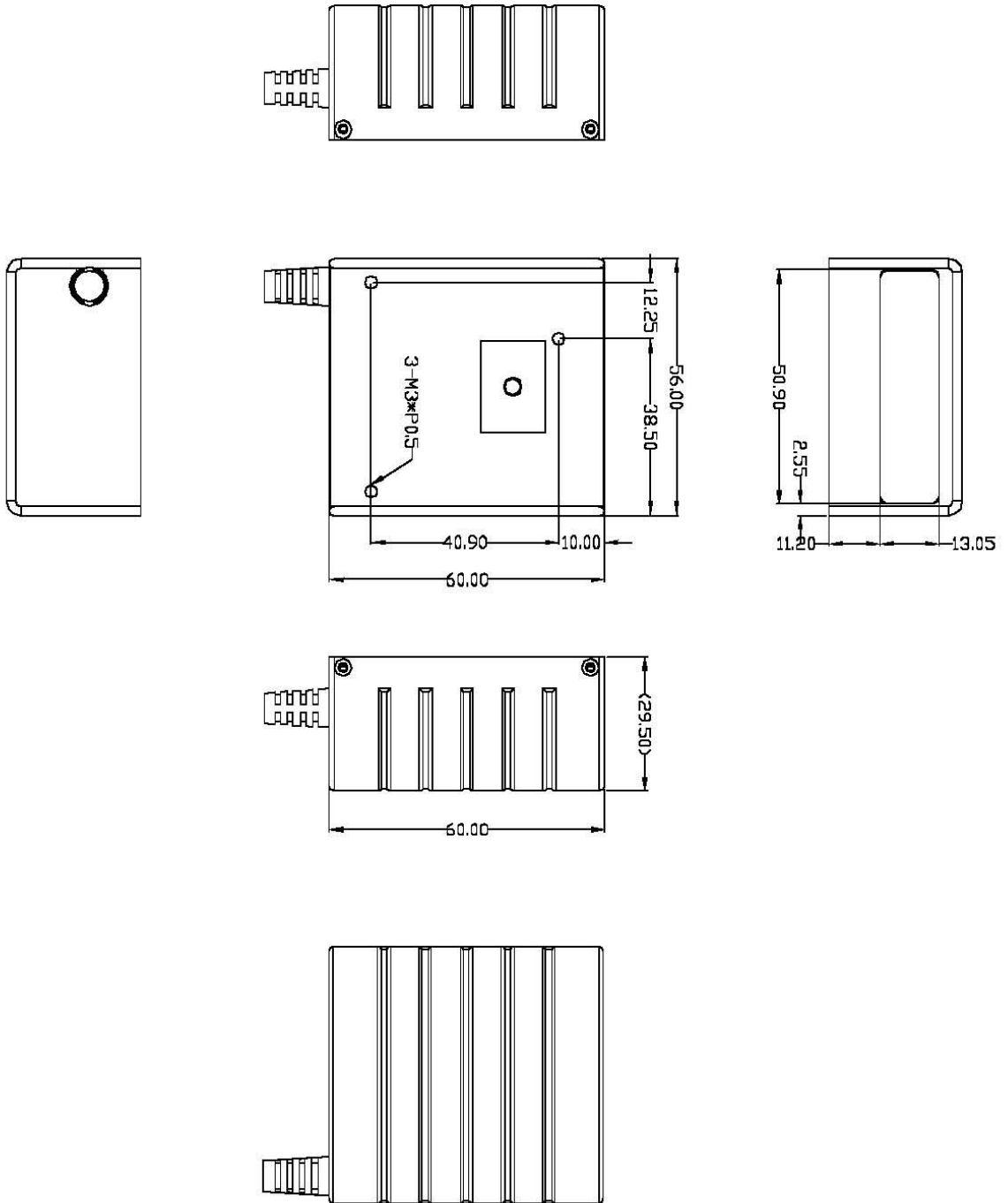Material: PC + Fiber
Dimension: Unit:mm

1. TTL Model: CD-620
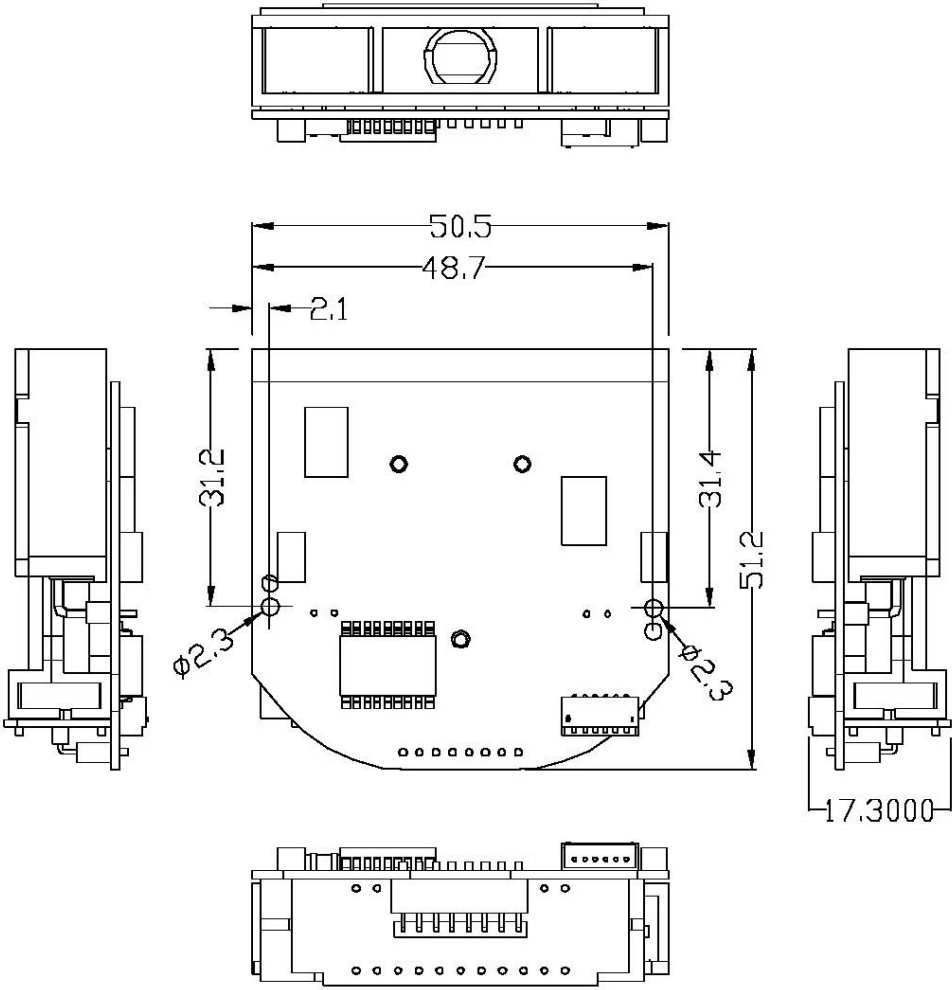
2. Decoded Model: FCCD-620 without Housing
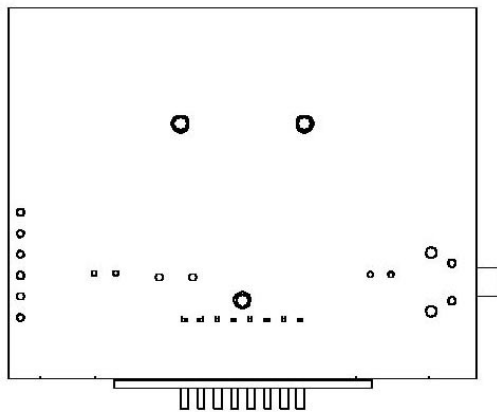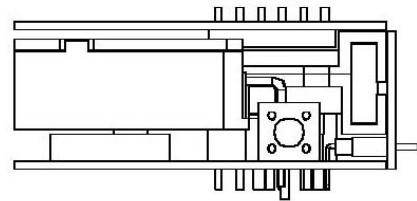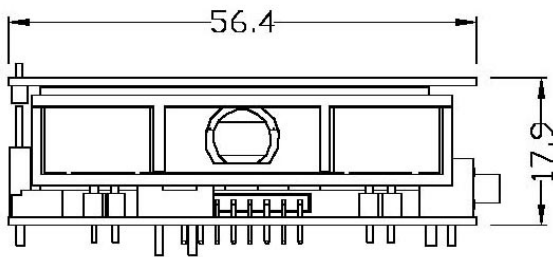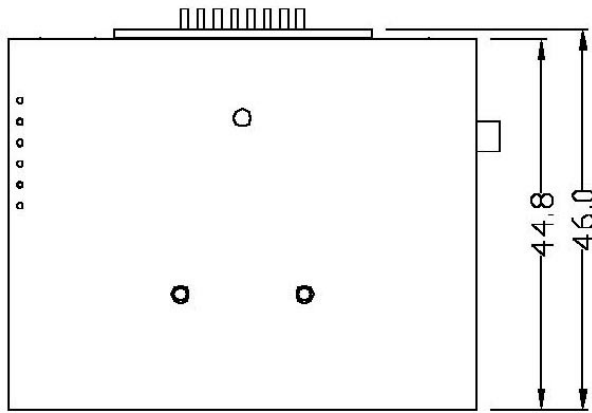
3. Decoded Model: FCCD-620 with Housing

F. Environment

For all models

| Operating Temperature	0°C to 45°C
Storage Temperature	-20°C to 60°C
Relative Humidity	20% to 85% (Mon-condensing)
Shock	1 meter drop on Concrete Surface

G. Performance

Scan Rate	100 scans / sec (signal directional)
Width of Field	47.5 mm + 0.59 $\times$ (Distance to CD-610) mm
Depth of Field	4 inch (100mm)
Resolution	4mil (0.1mm)
PCS	PCS 0.45
Reading Angle	Test Conditions: Code 39, 10mil, PCS0.9
Forward	$\pm$ 30 Degree
Up & Down	$\pm$ 45 Degree
Left & Right	$\pm$ 40 Degree
Dead Zone	Up & Down 8 Degree

H. Pin Assignment

1. TTL-PCB Connector Type: JST Pitch 1.25mm 6Pins Connector

TTL Data Output Connector

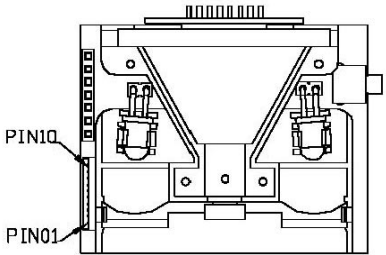| Pin No.	Function
1	Vcc (+5V)
2	Power Enable
3	Trigger
4	TTL Data
5	Star of Scan
6	GND
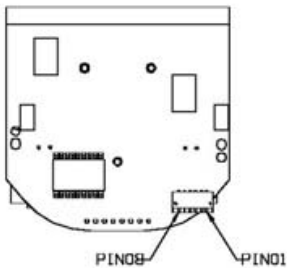
2. Decoded PCB Connector Type: JST Pitch 1.25mm 10 Pins connector
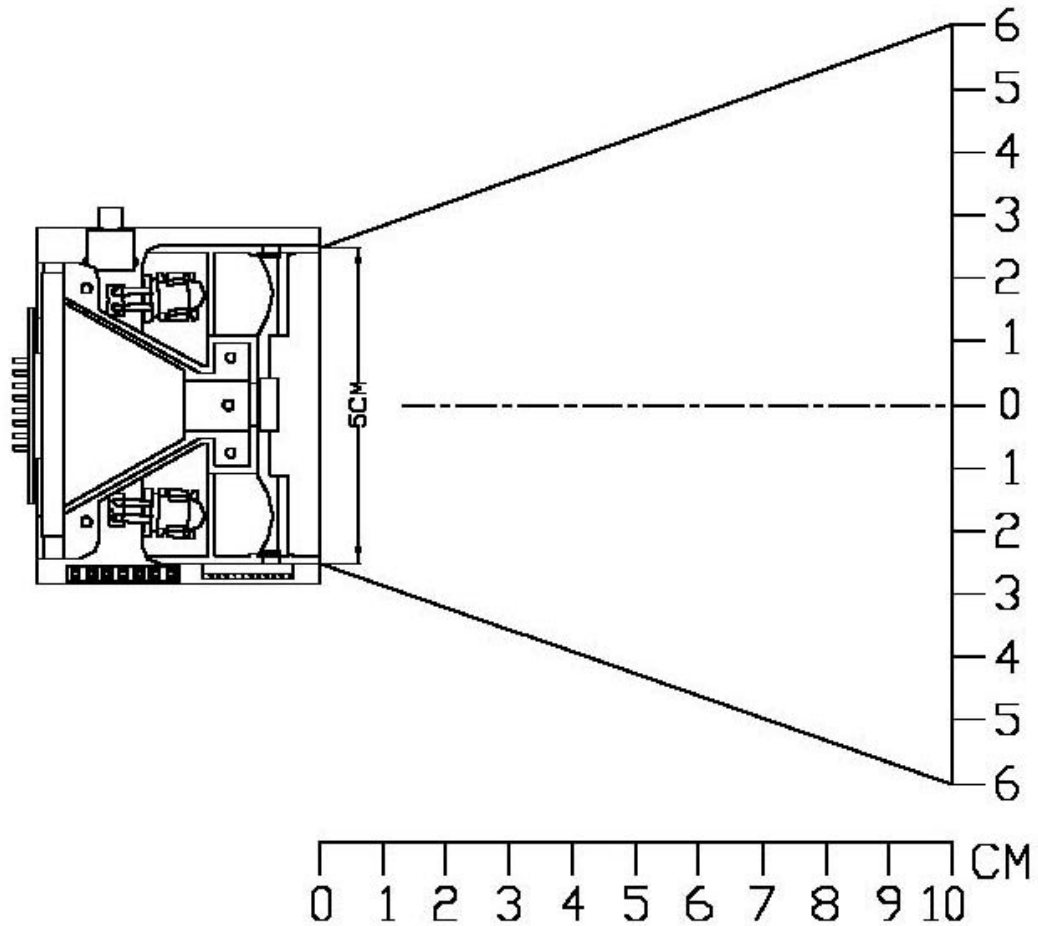
Decoder PCB Data Output Connector

Pin No.	Function
1	RTS
2	CTS
3	TXD
4	GND
5	PCDATA
6	PCCLK1
7	VCE
8	KBCLK
9	KBDATA
10	RXD

I. Decode Zone

Test Conditions: Code 39, PCS 0.9

3~6CM	4mil(0.1mm)
3~6CM	5mil(0.127mm)
3~8CM	6mil(0.15mm)
2~9CM	10mil(0.25mm)
2~10CM	13mil(0.33mm)
2~10CM	20mil(0.6mm)

J. Decoded symbologies;

Code 39, Code 32, Interleaved 2 of 5, Industrial 2 of 5, IATA , Matrix 2 of 5, China postage, Code 128, Code 11, Code 93, MSI-PLESSY, Codebar/NW7, Code 4, EAN-13/JAN-13, UPC-A, EAN-8/JAN-8, ISBN/ISSN

K. Scan mode: Trigger modes, Continous modes

L. Programming: By user's manual or by software via RS-232 or keyboard

M. Host control: By providing trigger commands

N. Support Remote programming by Computer Host via Serial Cable