

<h1>SPECIFICATION</h1>

Customer : _____

Customer's Model No. : _____

Model No. : IG300 2D imager barcode Scanner

Date : _____

Sample Serial No. : _____

Spec. Version & Revision Date: V00 2009.11.18

Received/Approved by



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Revision History

Version	Date	Context
V00	2009.11.18	Initial release

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A. General Description

IG300 is a brand-new designed 2D image scanner with inherited the characteristic of high performance. Aside from the principle of excellence mechanical design.

IG300 supports 1D/2D barcode scanning and picture capture. And its reading depth 400 mm up, scan rate is up to 200 scans / per second in linear emulation and 56 images / per second in 2D mode. Based on state-of-the-art CMOS technology for optimal image sensitivity and dynamic range, the IG300 features scanning speeds two times faster than traditional 2D imagers.

In short, IG300 is a high performance gun-type scanner, which provides the customer with the most cost-effective solution in the market. It is perfectly suitable and definitely the best choice for you.



B. Physical Characteristics

Weight

Body weight	Approx. 135g
RS232 Cable weight	Approx. 123g
USB Cable weight	Approx. 67g
AC adaptor	Approx. 109 g

Material ABS Plastic

Connector RJ 45C 10Pins

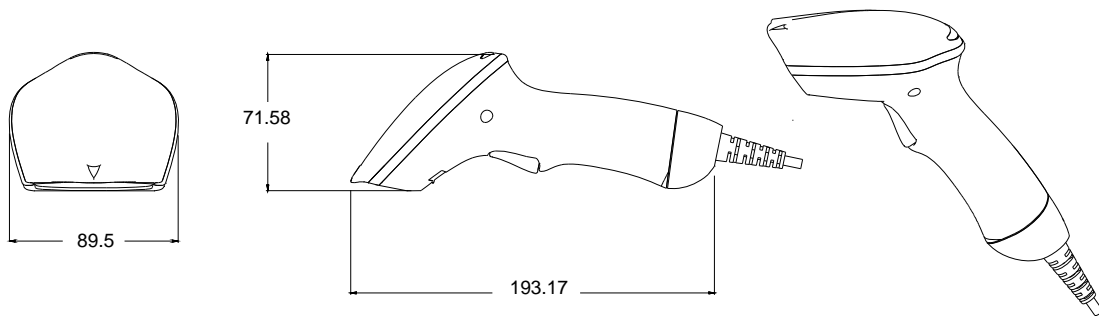
Cable Length 5Ft. (150mm)

Dimension 193mmx90mmx72mm

a. Mechanical drawing

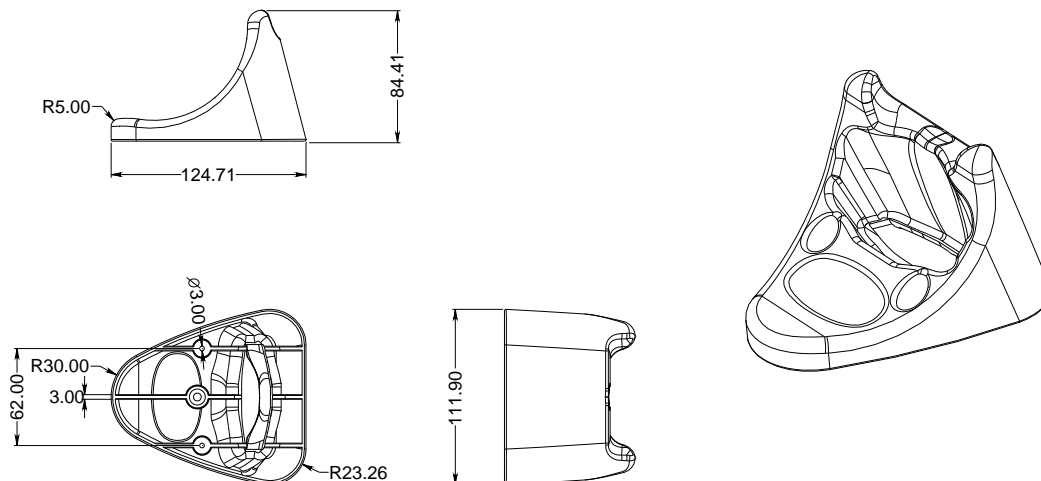
(1) Scanner

Unit: mm



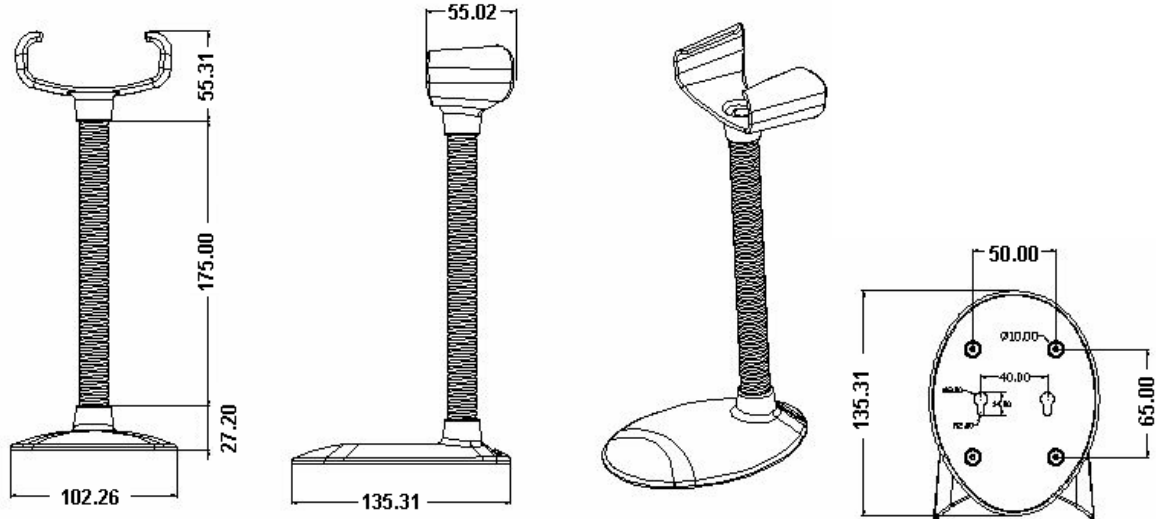
(2) Holder (Optional)

Unit: mm



(3) Standr (Optional)

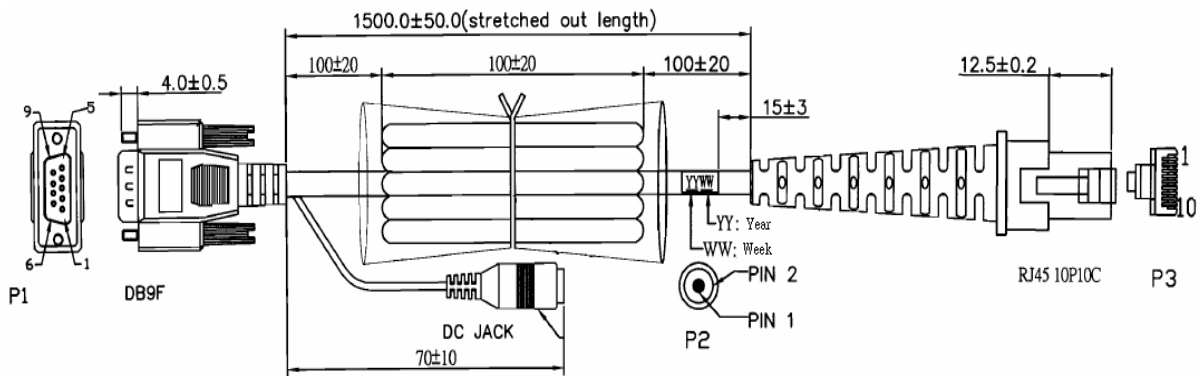
Unit: mm



b. Cable drawing

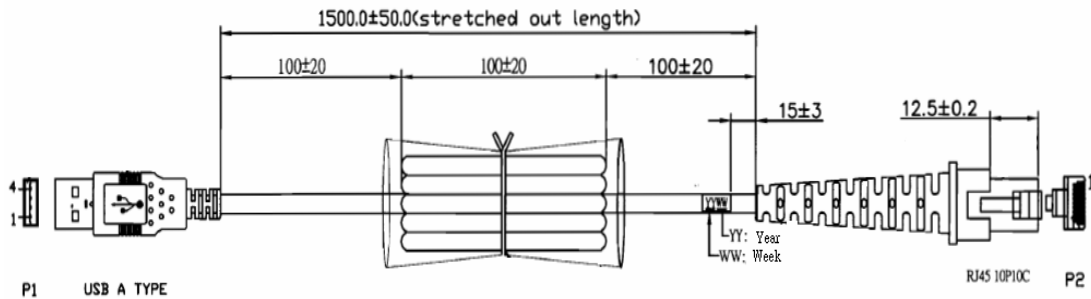
(1)RS232 Interface :

Unit : mm



Wire table				Function
P1	P2	P3	color	
5	2	3	Brown	GND
9	1	5	Red	Power
2		7	Orange	TXD
3		9	Yellow	RXD
8		1	Green	RTS
7		10	Blue	CTS
Iron case				Shielding

(2) USB (HID KBW / Virtual Comport) interface:



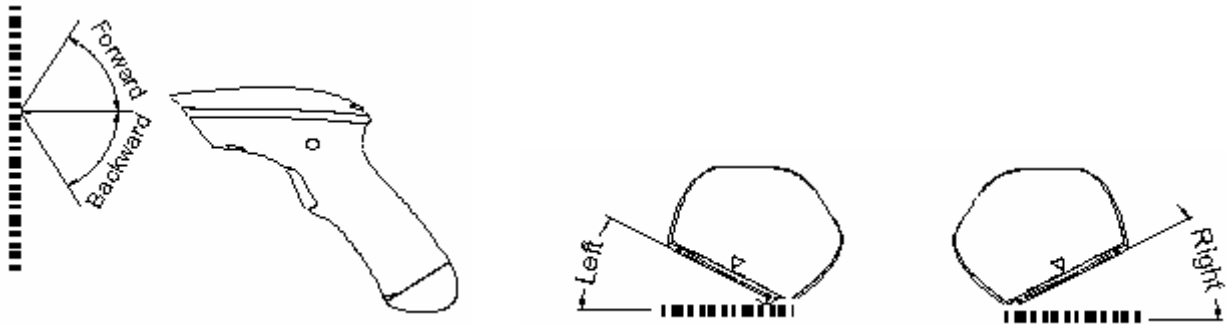
Function	wire table			Function
	P1	Color	P2	
VCC	1	Red	5	VCC
D-	2	Green	6	D-
D+	3	Blue	8	D+
GND	4	Brown	3	GND
Shielding	Iron case	Shielding	2	Shielding

C. Electrical Characteristics

Interface	RS232	USB(HID KBW)	USB(Virtual Com.)
Supply Voltage	DC Adaptor	USB Power DC +5V ±5%	USB Power
Current Draw		±10%	
Power On (Typ.)	184 mA	184mA	184mA
Stand by (Typ.)	56 mA	60mA	60 mA
Operation (Typ.)	435 mA	420mA	410 mA

D. Performance

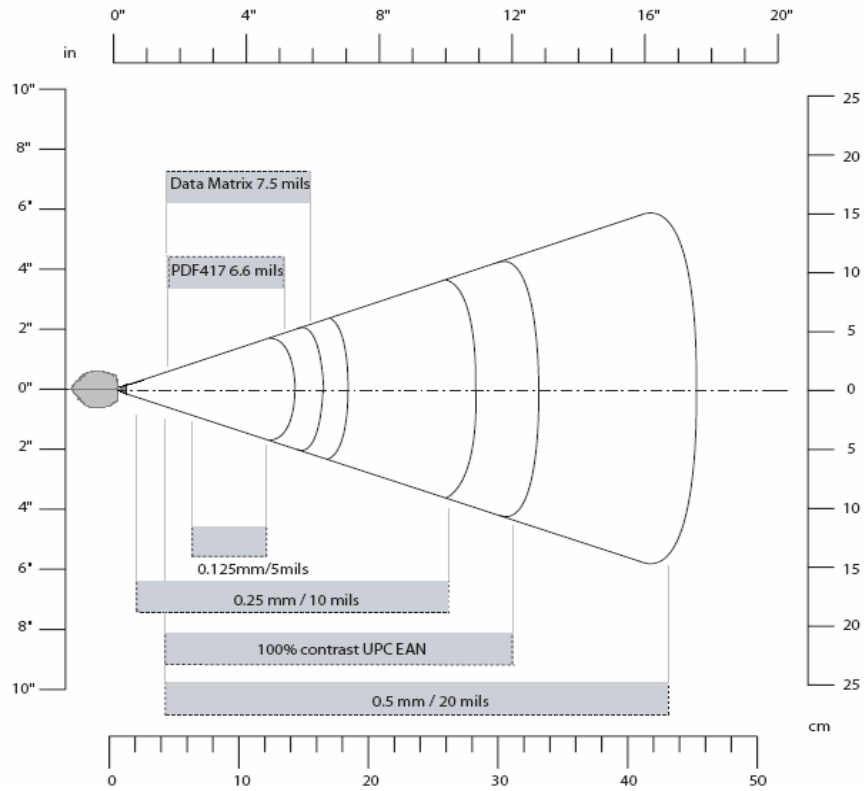
Light source	Visible Red light 650nm LED
Scan rate	200scans/sec auto adaptive in linear mode 56 images/sec auto adaptive in area mode
Optical resolution	752 Horizontal x 480 Vertical pixels, 256 gray levels
Scan angle	Horizontal $70^{\circ} \pm 10\%$ (Forward: 20° / Backward: 50°) Vertical $80^{\circ} \pm 10\%$ (Left: 40° / Right: 40°)
Interface	RS-232, USB (HID KBW or Virtual comport)



E. Environmental

Operating Temp.	0°C to 50°C (32°F to 122°F)
Storage Temp.	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	20% to 95% (Non-condensing)
Ambient light	100,000 Lux Max.

F. Scan Map



These distances are measured in an office environment (250 Lux).

G. Typical Reading Distances (+/- 10%)

Symbology	Density	Minimum Distance (+/- 10%)	Maximum Distance (+/- 10%)
Code 39	5 mils / 0.125 mm	5.2 cm	12.1 cm
	8 mils / 0.20mm	2.0 cm	21.5 cm
	10 mils / 0.25mm	2.4 cm	26 cm
	20 mils / 0.5mm	4 cm	44 cm
	40 mils / 1mm	7 cm	82 cm
UPC / EAN	13 mils / 0.33 mm	4 cm	31 cm
Data matrix	7.5 mils / 0.191 mm	5.3 cm	16.2 cm
	10 mils / 0.254 mm	3.8 cm	21 cm
	15 mils / 0.381 mm	*	28 cm
PDF417	6.6 mils / 0.16 mm	5.2 cm	14.4 cm
	10 mils / 0.254 mm	3.5 cm	22 cm
	15 mils / 0.381 mm	3 cm	36 cm

*Minimum distance depends on symbology length and scan angle.

H. Readable Symbologies

1D Symbologies	Readable	Default Enable
EAN/UPC	V	V
UCC/EAN128	V	V
ISBN	V	
ISBT	V	
Code 11	V	
Code 39	V	V
Code 93/93i	V	
Code 128	V	V
Interleaved	V	
Matrix	V	V
Instustrial	V	
Standard 2 of 5	V	
Codabar	V	
MSI	V	
Plessey	V	
Telepen	V	
Postal codes	V	
GS1 DataBar	V	

2D Symbologies	Readable	Default Enable
Data Matrix	V	
PDF 417	V	V
Micro PDF 417	V	
Maxicode	V	
QR code	V	
Aztec	V	
EAN.UCC composite	V	

I. Reliability

Life Time

Trigger Switch	1,00,000 times
MTBF(Calculated)	80,000 hours

Thermal Shock

High Temp.	60 °C (140 °F)
Low Temp.	-20 °C (-4 °F)
Cycle time	30 minutes for high temp. , 30 minutes for low temp.
Cycles	24 cycles

Cable Bending Test 25,000 times minimum (30 times/min @ 500g/90°)

Drop 40 inch(100cm) drop on Concrete Surface

J. Packing

Dimension

Unit	24 cm X 10.9 cm X 8.6 cm
Carton	57 cm X 37.5 cm X 26.5 cm

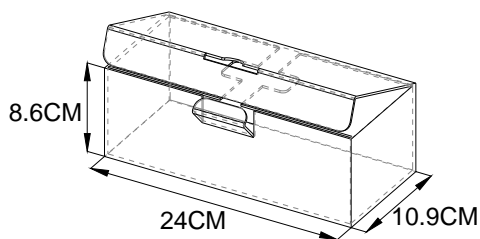
Weight

Unit	345 g
Carton	8 Kg (Q'ty :20 pcs)

Storage

Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Humidity	20% to 95% (Non-condensing)

Unit :



Carton:

