

# Zapper Tornado 2D™

## Effortless 2D and 1D barcode scanning



Thanks to its innovative Imaging Technology, the Zapper Tornado 2D™ can read most widely-used linear, postal codes and 2D bar codes on paper and screen. With its rugged design, outstanding reading performance and versatile features, it offers business exceptional value with increased employee productivity and streamlined business processes. The Zapper Tornado 2D provides an ideal scanning solution for retail, logistics, libraries, healthcare and industry applications.

### Outstanding readability

The Zapper Tornado 2D supports digital image capture functionality, enabling you to capture images as well as effectively scanning paper and on screen barcodes.

### Superior reading performance

The Zapper Tornado 2D is designed to meet the needs of various barcode scanning applications. It has superior performance on reading poorly-printed, smudged and damaged barcodes.

### Omni-directional scanning capability

The Zapper Tornado 2D supports omni-directional scanning of both 2D and 1D barcodes. Users can read barcodes in any orientation without having to align the bar code or pause between scans. Its point-and-shoot capability improves the first-time read rates while resulting in faster input and less operator fatigue.

- Perfectly suited to retail and general purpose applications
- For libraries, it reads ISBN/SCIS and 13 digit ISBN barcodes
- Rugged and ergonomic design
- Capable of reading high density 2D and 1D barcodes
- Excellent for reading damaged, distorted or worn barcodes, as well as barcodes on curved surfaces
- Plug-in-and-play – no drivers required
- Multi interface
- Backed by two year factory warranty\*

\* one year warranty on cable

### SPECIFICATIONS

#### OPERATIONAL

Light Source	Aiming Pattern: 630nm LED, Illumination: 630nm LED	
Scan Pattern	Area Image	
Print Contrast	20% minimum reflective difference	
Minimum Resolution	4mil Code 39, 7mil DM	
Image Capture	Graphic Format: BMP	
Reading Range	5 mil (0.13mm) C39	4~15 cm
	13 mil (0.33mm) UPC/EAN	3~38 cm
	10 mil (0.25mm) DM	3~15.5 cm
Motion Tolerance	Up to 63.5cm per second	
Pitch/Skew	Roll: 360°; Pitch: ± 75°; Skew: ± 65°	
Operating Modes	Toggle, Trigger, Force, Level, Diagnostic Alternative, Low power, Presentation, Multiple Read	
System Interfaces	USB, RS232, KBW	
User Interfaces	3 LEDs for good read, power and status indications Programmable beeper, optional vibrate mode	

#### SYMBOLOGIES

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey, GS1 DataBar, Linear & Linear Stacked
2D Codes	PDF417, Micro PDF417, Codablock F, Code 16K, Code 49, Composite Codes, DataMatrix, MaxiCode, QR Code, Aztec, MicroQR
Postal Codes	Australian Post, US Planet, US Postnet, Japan Post Dutch KIX code, Intelligent Mail, British Post

#### PHYSICAL

Dimensions (mm)	95.00mm (L) x 70.5mm (W) x 161.7mm (D)
Weight	152g (without cable)
Colour	Black
Input Voltage	5VDC ± 10%
Current	Operating: Typical 350 mA @5VDC Standby: Typical 180 mA @5VDC

#### REGULATORY

EMC	C-Tick, CE, BSMI, KC, VCCI & FCC compliant
Environmental	Compliant with RoHS directive
Safety	LED Eye Safety IEC62471, Exempt Group

#### ENVIRONMENT

Operating Temperature	-10°C to 50°C
Storage temperature	-40°C to 70°C
Humidity	5% - 95% RH (non condensing)
Ambient Light Injection	0-100,000 LUX
Shock	Designed to withstand multiple 1.8m drops to concrete
Environmental Sealing	IP41
ESD Protection	Functional after 15KV discharge

### Meet the family of Zapper Tornado scanning solutions

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[Zapper Tornado HC](#)  
[Zapper Tornado BT 2D](#)

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