

# Duet®

Dual Action Scanner



## Features:

- Versatility – Small footprint for virtually any point-of-sale environment
- Flexibility – Hands-free scanning for small, easily handled items, handheld scanning for bulkier items and barcoded Price Lookup (PLU) lists
- Performance – Aggressive performance and intuitive operation reduces checker training and speeds checkout for better customer service
- Smallest and lightest in its class
- EAS compatible
- Autodiscriminates UPC or EAN plus 5 industrial symbologies and supports P2, P5 & CI28 add-ons
- Extensive programming options
- Data editing

## Omnidirectional and Handheld Scanning – One Scanner Does Both Jobs!

With the Duet® scanner retailers can now scan anything at the point-of-sale; small items, large bulky items, even items that aren't individually bar coded. Now retailers can provide quicker checkouts and enjoy the benefits of increased accuracy of the "scan data". Most items are simply presented or swept in front of the scanner. With the Duet® scanner's unique single line capability the need to manually key items without bar codes, such as unpacked or specialty products, is eliminated. Simply direct the pointer beam that exits out the back of the scanner at a bar coded PLU list, target the correct item, press the trigger and the single line captures the data.

This single line capability eliminates misread problems often encountered with other scanners that only have an omnidirectional scan pattern. For large or bulky items you take the lightweight scanner to the bar code just as you would with a handheld scanner. It truly is two scanners in one!

## Best in Class Performance

Using an advanced visible laser diode scanning system, the Duet® scanner offers a large 22.86 cm depth-of-field and wide scan area for higher performance hands-free scanning. With enhanced decoding capabilities the scanner is fast with high first-pass read rates on a variety of bar codes including labels that are long, highly truncated, partially obscured and difficult to read. It also includes the patented PSC Edge™ software which automatically reconstructs torn or disfigured labels. And it reads labels with elements as small as 0.13 mm.

## Advanced Ergonomic Design – Easy to Use, Built to Last

With two scan windows the scanner can easily adapt to either fixed or handheld scanning applications. When used as a countertop scanner, it is quick and easy to use. Hands-free omnidirectional scanning minimizes the operator's need to adjust or orient individual items. When used as a handheld scanner, the operator simply picks up the scanner and aims at one single bar code.

The lightweight specially designed case is built to survive multiple drops from a counter top to a concrete floor and resist chipping, stains, or fading on the surface. Maintenance is virtually nonexistent – simply clean the scanner and window periodically.

And with the small size and footprint, the Duet® scanner fits easily where counter space is limited such as convenience stores, pharmacies and kiosks. Individual operators can adjust the scan angle with the convenient tilting and pivoting base to create a comfortable work environment.



# Specifications

## Duet®

### Mechanical

#### Dimensions

Scanner: 7.0 x 3.4 x 2.6" / 17.8 x 8.4 x 6.6 cm  
 Scanner w/Stand: 8.0 x 4.3 x 4.6" /  
 20.3 x 10.9 x 11.6 cm

#### Weight

Scanner: 9.0 oz. / 0.25 kg  
 Base: 10.5 oz. / 0.29 kg

**Cable length:** 8 or 12' / 2.4 or 3.5 m extended

### Electrical

**Operating voltage:** 4.7V to 14.0 VDC;  
 5.2V to 14 V DC (Universal Wedge version)

**Power consumption:** 3 Watts maximum

### Environmental

#### Temperature rating

Operating: 32° to 104° F / 0° to 40° C  
 Storage: -40° to 158° F / -40° to 70° C

**Humidity:** 5 to 95% NC

#### Shock (at 23° C):

Withstands five 3-ft. / 1 m drops to concrete

**Vibration:** Operates in all normal retail and office environments

**Water & Dust:** Resistant, IEC529 rating IP53

### Communications

RS-232 (standard, SNI, Ack/Nak, Host echo)  
 IBM 46xx (ports 5b, 9b, E, 17)  
 IBM 46xx / USB Embedded w/USB Single Cable  
 Standard & Universal Keyboard Wedges  
 Wand Emulation

### Optical

**Light source:** 650nm Visible Laser Diode (VLD)

**Scan system:** Rotating polygon

#### Scan pattern

Omnidirectional mode: 19 lines out from the front of the scanner

Single line mode: 1 line out from the back of the scanner

**Scan speed:** 1,500 lines per second (lps)

**Scan angles:** 5

**Scan volume:** 100 cubic inches

#### Motor

Motor speed: 4,500 rpm

Speed to read (from motor off): <math>-500\text{ ms}</math>

**Depth-of-Field:** Refer to chart below

**Resolution (minimum):** 0.13 mm

**Print contrast ratio:** 50% minimum

#### Label orientation

Pitch & Skew: Front Window  $\pm 80^\circ$ ;

Back Window  $\pm 45^\circ$

Roll: Front Window  $0^\circ$  to  $360^\circ$ ;

Back Window  $\pm 38^\circ$

**Ambient light tolerance:**

200 ft-candles / 2100 lux maximum

### Depth-of-Field Chart –

(printing resolution, contrast and ambient light dependent)

Label Density	Range
5 mil	10" to 25" / 25 to 64 cm
75 mil	0.0" to 6.0" / 0.0 to 15.2 cm
10 mil	0.0" to 70" / 0.0 to 178 cm
13 mil	0.0" to 90" / 0.0 to 229 cm

Available Mount



P/N: 7-0610

Gooseneck Flexible (flat stand)



Versatile scanner: operates as a stand-alone or handheld scanner

### Decoding Capability

UPC A, E / EAN 8,13 / JAN 8, 13

Edge™ stitching for UPC A, EAN 13 & JAN

Add-ons

UPC P2, UPC P5, Code 128

Industrial Codes

Code 128

Code 93

Code 39

(variable length, fixed length label stitching)

Interleaved 2 of 5

Codabar

MSI / Plessey

2 label read

Full label editing

Autodiscriminate UPC Edge with Add-ons & 5 industrials

RSS 14 omni-stacked and expanded -optional

**NOTE:** With RSS enabled, Autodiscrimination is limited as follows:

- RSS with UPC/EAN/JAN or
- RSS with all industrial codes

### Safety & Regulatory

**Electrical:** Gost R; TÜV; UL; cUL

**Emissions:** Complies to PCC-A, 47 CFR Part 15;

BCIA CNS 13438; EN 55022-B; AS/NZS 3548;

VCCI-B

**Laser classification:** CDRH Class IIa;

(CAUTION: Laser Radiation –

do not stare into beam);

IEC 60825 Class 1



### Other

**EAS compatibility:** Integrated EAS hardware

will work with Counterpoint IV, V, VI, and VII models available from Checkpoint Systems.

