



# Empowering Kiosk Solutions Ultimate performance with an unbeatable price!

The Unitech ES700 and ES800 2D embedded barcode reader modules are the ideal solution for OEM kiosk (self-service/ interactive kiosk) and EPOS integration. These Unitech 2D CMOS imager readers enables you to bring your systems to the market quickly and cost effectively. Therefore, Unitech introduces 2 models to meet the system requirements based on size and functionality.

- The ES700 has a diagonal screen measurement of 7.5 cm and is designed when high motion tolerance is needed, used in a semi-outdoor environment and a compact size is required.
- The ES800 has a diagonal screen measurement of 16 cm and is designed for the self-checkout and POS market, especially when a larger reading screen is key for the solution.

Both models support several scanning modes such as: auto-detection (image auto-induction), continuous scanning and embedded scanning commands via the host mode\*\*. Additionally, the ES700 can also be triggered by infrared auto-induction, this allows the ES700 to detect barcodes even under ambient light. Both the ES800 and ES700 will scan fast and efficiently.

The ES700 and ES800 are both high performance and aggressive readers which offers superior 1D and 2D scanning, able to read digital barcodes from mobile screens (including QR codes) without losing scanning quality or performance. They will facilitate users to scan barcodes at extraordinary speed on their first pass thanks to its high motion tolerance imaging speed. Both models support multiple interfaces and enabling them to smoothly be utilize with different devices. In addition they feature a loud but adjustable speaker and offers convenient visual confirmation of good scans.

\*\* Host mode is only applicable via RS232 interface and USB-SPP (USB virtual com port).

The Unitech ES700 and ES800 imagers are specilly designed for Kios and other POS solution integration in mind that require high performance and easy configuration. These imagers can be used in a wide variety of applications such as:

#### **PARKING PAYMENT** & RENTAL KIOSK



#### **AUTO-DISPENSER / VENDING MACHINE**



SELF-CHECKOUT, **ORDERING & TICKETING** 



**SELF SERVICE PICKUP & LOCKER KIOSK** 







## unitech

ES800

## Physical characteristics

Dimension 90.5×35.4×80.2 mm (diagonal screen 7.5 cm)

**ES700** 

Weight 95.3g (without cable)

Case material ABS

Cable Black, straight, 2.0m (comes inside the box)

Connector RJ45

Interface USB - HID, USB - SPP, RS232

Indicator Beeper and LED

Scan Mode Auto-detection (infrared auto-induction, image auto-

induction), Continue mode and Host mode \*\*

 $\ensuremath{^{**}}\xspace$  Host mode via RS232 interface and USB-SPP (virtual com port).

Manual by scanning special barcodes in sequence

or Remote commands

Input voltage 5±0.25V

Inside the box ES700 + 2.0m USB/RJ45 cable

#### Electrical characteristics

Program Method

Current Working: 550mA, 800mA(max);

Standby: 220mA

#### Performance characteristics

CPU 32 bits ARM processing

Scan pattern Image scan
Image resolution 1280×800 pixels
LED White, 5000K

Scan angle Skew: ±66°, Pitch: ±61°, Roll: 360° Field of view Horizontal: 46.5°, Vertical: 68°

Frames/second 30 frames/sec.

Motion tolerance no less than 1.8 m/s

Print contrast 20% minimum reflectance difference

Support symbology All common 1D & 2D barcodes

incl. GS1 DataBar

Minimum resolution 4mil

## Reading distance (DOF)\*

4 mil Code39 (9 chars)	20 mm - 45 mm
5 mil Code39 (3 chars)	15 mm - 55 mm
10 mil Code39 (3 chars)	5 mm - 100 mm
13 mil UPC (6 chars)	5 mm - 110 mm
15 mil Code39 (1 char)	5 mm - 115 mm
20 mil Code39 (1 char)	0 mm - 160 mm
6.7mil PDF417 (20 chars)	20 mm - 50 mm
10mil QR (20 chars)	10 mm - 55 mm
20mil QR (20 chars)	5 mm - 100 mm

<sup>\*</sup> Depending on width, type and quality of barcode.

## Physical characteristics

147×74.5×139 mm (diagonal screen 16 cm)

361g (without cable)

PC

Black, straight, 2.0m (comes inside the box)

RJ45

USB - HID, USB - SPP, RS232

Beeper and LED

Auto-detection (image auto-induction),
Continue mode and Host mode \*\*

\*\*Host mode via RS232 interface and USB-SPP (virtual com port).

Manual by scanning special barcodes in sequence

or Remote commands

5±0.25V

ES800 + 2.0m USB/RJ45 cable

#### Electrical characteristics

Working: 410mA, 700mA(max);

Standby: 300mA

#### Performance characteristics

32 bits ARM processing

Image scan 1280×1024 pixels White, 2700K

Skew: ±60°, Pitch: ±54°, Roll: 360°

Horizontal: 40°, Vertical: 32°

60 frames/sec. no less than 3 m/s

20% minimum reflectance difference All common 1D & 2D barcodes

incl. GS1 DataBar

4mil

Reading distance (DOF)\*

4 mil Code39 (9 chars)	35 mm - 70 mm
5 mil Code39 (3 chars)	25 mm - 80 mm
10 mil Code39 (3 chars)	0 mm - 120 mm
13 mil UPC (6 chars)	0 mm - 140 mm
15 mil Code39 (1 char)	0 mm - 145 mm
20 mil Code39 (1 char)	0 mm - 210 mm
6.7mil PDF417 (20 chars)	20 mm - 95 mm
10mil QR (20 chars)	10 mm - 100 mm
20mil QR (20 chars)	10 mm - 100 mm
× 5	

<sup>\*</sup> Depending on width, type and quality of barcode.

### Environmental Characteristics

Temperature Operating: -10°C to 50°C

Storage: -30°C to 70°C

Humidity 5% to 95% (non-condensing)

## Safety, EMC & Warranty

EMC: EN55032:2015, EN55024

Electrical safety: EN60950-1 Photo biological: EN62471

RH immunity, IEC61000-4-3, 10V/m

Artificial light immunity: Illumination: 0 to 100,000LUX

Regulatory approvals; CE, FCC, RoHS

Warranty 1 year

## **Environmental Characteristics**

Operating: -0°C to 70°C Storage: -40°C to 70°C 5% to 95% (non-condensing)

## Safety, EMC & Warranty

EMC: EN55032:2015, EN55024

Electrical safety: EN60950-1 Photo biological: EN62471

RH immunity: IEC61000-4-3, 10V/m

Artificial light immunity: Illumination: 0 to 100,000LUX

Regulatory approvals; CE, FCC, RoHS

Warranty 1 year

#### **Unitech Europe**

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