

A770 HC Series

A High Performance Antimicrobial Area Imaging Scanner for Sterile and Hygiene-sensitive Applications

Disinfectant-ready enclosure incorporated with antimicrobial additives

Comply with JIS Z2801: 2000 standard

Allow periodic cleaning with commonly-used cleaning solutions

Read most popular 1D, 2D bar codes and postal codes

Omni-directional scanning

The ability to read bar codes on paper and LCD display

Superior readability on barcodes printed on reflective material and on curved surface

Unsurpassed readability on low contrast, smudged, poorly-printed or damaged barcodes

High-density and standard range models are available for various data capture needs

High density model can read 2.7-mil high-density barcodes

Standard range model is ideal for general purpose applications

Digital image capture capability

Built-in vibrator is ideal for noisy and quiet environments



Society is more germ-conscious than ever. It's a trend to use devices incorporated anti-microbial materials for some specific environments to minimize the risk of spreading infectious micro-organisms and other bacteria.

CINO is committed to providing excellent bar code scanner that addresses the needs of those applications. The newly developed CINO A770 HC antimicrobial area-imaging scanner not only provides outstanding reading performance, but also protects your customer's safety under complete infection control.

Disinfectant-Ready enclosure

The A770 HC area-imaging scanner's housing is incorporated with silver inorganic antimicrobial agent, it will not be worn off during its lifetime. The disinfectant-ready enclosure allows the plastic to be cleaned or wiped-down with commonly-used cleaning solutions in healthcare environments without harming the housing or the sensitive scanning components inside.

Outstanding reading performance

The A770 HC supports most popularly-used linear, 2D bar codes and postal codes. It also supports digital image capture function, enabling you to scan barcodes and capture images with a single device. It can read paper-based and electronic bar codes. High density and standard range models are designed to meet the needs of various barcode scanning applications.

Solution for hygiene-sensitive environments

In healthcare industry, PDF417 and 2D bar codes are commonly used on patient ID bracelets and medications to improve patient safety. Many pharmaceutical and biomedical companies use 2D bar codes to track laboratory samples. It can serve a wide range of specific applications where hygiene environment is paramount and high-level safety is vital.

Specifications

Performance Characteristics

Image Sensor	WVGA 752x480 Pixels	
Print Contrast	20% minimum reflectance difference	
Light Source	Aiming Pattern : 630nm LED Illumination : 630nm LED	
Min. Resolution	SR Model 3.3 mil Code 39 7 mil DM HD Model 2.7 mil Code 39 5 mil DM	
Roll, Pitch, Skew	Roll: 360°; Pitch: ± 75°; Skew: ± 65°	
Motion Tolerance	Up to 25 inch/63.5 cm per second	
Reading Range	SR Model (A770-SR-WVU) 5 mil (0.13mm) C39 3.8-19.5cm (1.5"-7.7") 13 mil (0.33mm) EAN 2.4-40.5cm (0.9"-15.9") 10 mil (0.25mm) DM 3.0-20.0cm (1.2"-7.9") HD Model (A770-HD-WVU) 3 mil (0.076mm) C39 2.2-9.6cm (0.9"-3.8") 5 mil (0.13mm) C39 2.8-11.5cm (1.1"-4.5") 13 mil (0.33mm) EAN 1.8-20.3cm (0.9"-12.9") 5 mil (0.13mm) DM 2.8-7.5cm (1.1"-3.0") 10 mil (0.25mm) DM 1.2-12.0cm (0.5"-4.7")	
Operating Modes	Trigger, Toggle, Force, Level, Diagnostic, Alternative, Low power, Presentation, Multiple read	
Host Interfaces	PC/AT, PS/2 (DOS V) keyboard wedge PC/AT, PS/2 (DOS V) keyboard direct link TTL RS232 serial USB HID (USB Keyboard) USB COM port emulation	
Image Capture	Graphic Format : BMP	

User Environment

Drop Specifications	Withstand 50 drops at 1.8m / 6.0ft to concrete Withstand 10 drops at 2.0m / 6.6ft to concrete
Environmental Sealing	IP41
Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0-100,000 lux
ESD Protection	Functional after 15KV discharge
Recommend cleaning solutions	Gentle dish soap water or alcohol solvent solutions

1. The working distances are measured in 400lux office environment using Grade A bar codes.
2. Don't stare into the LED.

Supported 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 Characteristics

Dimension	95.0 mm (L) x 70.5 mm (W) x 161.7 mm (D) 3.74 in. (L) x 2.77 in. (W) x 6.36 in. (D)
Weight	152g (cable excluded)
Color	Plastic: Healthcare White Over-mold: Light Blue
Antimicrobial Additives	Silver inorganic antimicrobial agent
User Interfaces	3 LEDs for power, good read and status indications Programmable beeper Vibrator
Input Voltage	5VDC ± 10%
Current	Operating : Typical 350 mA @5VDC Standby : Typical 180 mA @5VDC

Safety & Regulatory

EMC	CE, FCC, BSMI, C-Tick, KC, VCCI
Safety ²	LED Eye Safety IEC62471 Exempt group
Environmental	Compliant with RoHS directive
Antimicrobial	JIS Z2801 : 2000

Accessories

Cables	PS/2 (DOS V) Keyboard Wedge Cable RS232 Serial Cable USB Cable USB Power Steal Cable
Others	Hand-free SmartStand (Colors available: black and light gray)