



ANTIMICROBIAL

series



8001

1500

1661

For Lasting Hygiene Protection

CipherLab Safeguards Users with Antimicrobial Series





Controlling Cross-Contamination and Cross-Infection While Delivering High Work Efficiency

In an industry where hygiene is vital, the importance of preventing the spread of microbes is escalating. CipherLab addresses the needs of an AIDC application in a hygienic environment with its newly developed antimicrobial series products.

In cooperation with Microban[®], CipherLab has developed ergonomically designed antimicrobial mobile computer and scanners with Microban[®] antimicrobial technology – 8001H, 1500H, and 1661H – for convenient data access, data collection, and data transfer. Antimicrobial-treated AIDC instruments not only speed up routine daily tasks but also provide an extra level of hygiene.

The enhanced sanitary protection resulting from both antimicrobial treatment and disinfectant-friendly housing helps reduce cross-infection and cross-contamination, thereby securing public health without sacrificing productivity.

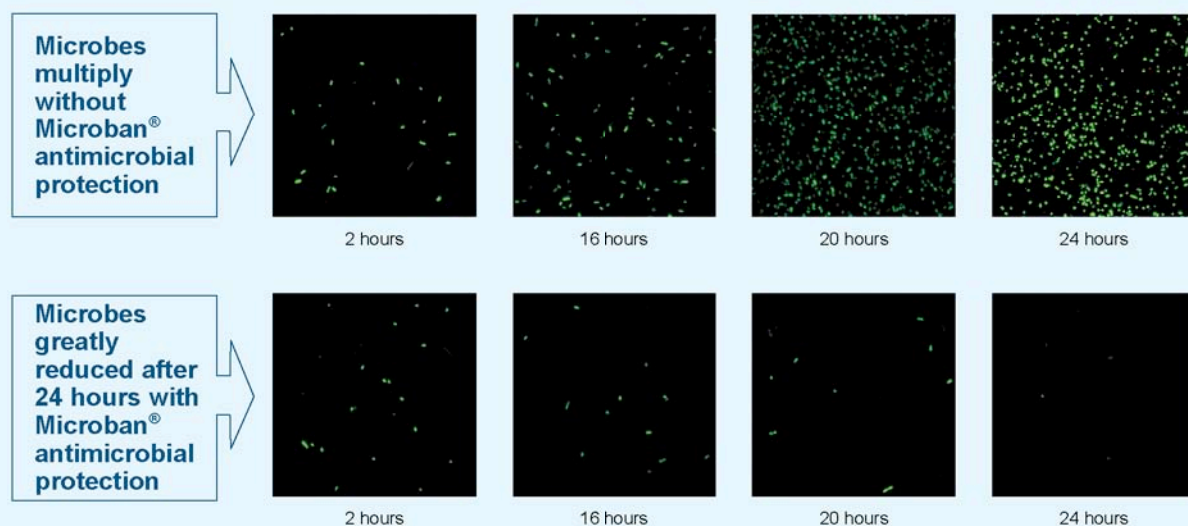
*Founded in 1994, Microban International, Ltd. is the global leader in built-in antimicrobial product protection, engineering durable antimicrobial solutions for over 1,000 types of consumer, industrial, and medical products around the world. Microban[®] technology can inhibit the growth of Gram-positive and Gram-negative bacteria on treated product surfaces. For more information, please visit www.microban.com.



Antimicrobial Treatment Helps Reduce Microbial Growth

Unlike other treated devices claiming antibacterial effects, which are often just coated with a protective film, CipherLab's antimicrobial series has the Microban® antimicrobial protection built into the product itself – not just a coating that wears off with repeated use of alcohol wipes. Microban® technology penetrates the cell walls of the microbes and disrupts cellular functions, which

restrains them from reproduction. The antimicrobial effect is an intrinsic part of the device and it will not wear off during its lifetime. By minimizing the presence of microbes, devices are easily kept clean for use every time. There are less odors and stains resulting from microbial growth. The hygienic product will have a lower average bioburden during its lifetime.



Disinfectant-Friendly Housing for a Clean and Hygienic Surface

Periodically wiping a device with alcohol can keep most surfaces free of microbes for a brief period. However, the repeated use of alcohol causes discoloration, corrosion, and other deterioration problems, which in turn can lead to hardware malfunction. The launch of the new antimicrobial

series has an extra feature of disinfectant-friendly white housing, which allows the antimicrobial treated surface to withstand repeated alcohol cleaning. Fewer replacements are needed, resulting in a lower total cost of ownership.

Antimicrobial Series Overview



8001H

Light and Compact for Efficient Data Capture

- Easy-to-learn interface means a shorter training period and learning curve for new, temporary staff, or substitute nurses – maximizing work efficiency.
- 100 continuous hours operation in batch mode on a lithium-ion rechargeable battery gives an efficient workflow without having to interrupt tasks.
- Lightweight and pocket-sized gives greater mobility while taking up minimal space.
- FORGE AG software helps customize workflow and templates to suit unique work routines and use.
- Recommended for inventory stock control, product orders, patient record access during diagnosis, point-of-care, record management, lab tests, and specimen tracking.



1500H

Snappy Scanner Built for Comfort

- Decode rate at 200 times per second and able to read high density 1D barcodes at 3 mil resolution.
- No moving parts for a lower total cost of ownership.
- Adjustable stand for three different uses: mounted on the wall, placed on a desk, or in a fixed position for autosense scanning.
- Lightweight and ergonomic design that can render thousands of repetitive scans without fatigue.
- Large LED light and adjustable buzzer confirms when a scan has been captured successfully, even in dim lighting, to avoid duplicate scanning.
- Using ScanMaster software, users can easily edit data, configure symbology, and select a relevant interface.
- Recommended for patient admittance identification, drug identification, and medical billing.



1661H

Pocket-sized for Maximum Mobility and Flexibility

- BT interface for convenient data transfer to any BT device, such as a PDA. With the 3610 BT transponder, easy pairings simplify real-time data transmission to any device for instant viewing.
- The lithium-ion battery lasts for 30 hours – enabling completion of tasks without time wasted on battery recharge.
- 256K on-board memory stores over 10,000* barcode scans during out-of-range operations when the 1661H is set to batch mode.
- Lightweight and pocket-sized, with BT capabilities for maximum mobility.
- The ScanMaster software enables easy data editing and configuration of symbologies, as well as tailoring the interface to suit individual work routines.
- Recommended for point-of-care, medication dispensing, records management, lab results, and specimen tracking.

* The calculation is based on EAN13 barcode.

Caregivers Gain Time for Their Patients

Caregivers free up valuable time, allowing them to spend more time with their patients.

At the China Medical University Hospital (CMUH) in Taiwan, caregivers manually recorded patients' condition at their bedsides and then entered the information at the nursing station. This was very time consuming and often meant that caregivers were spending a great deal of time on paperwork. With the implementation of the CipherLab 8000 handheld terminal, caregivers can now scan barcodes on a patient's wristband to instantly update their medical records. They are able to continuously keep track of a patient's symptoms on the terminal and upload this data via the communication cradle once back at the nursing station. The data can be instantly displayed on a laptop or a monitor for on-duty doctors to view. Thereafter, the time saved from the tedious paperwork can be spent with patients for better, more personal treatment.



Keeping Costs Down and Saving Time

Nursing homes in the Czech Republic gained accuracy and retrieved money on their billing system.

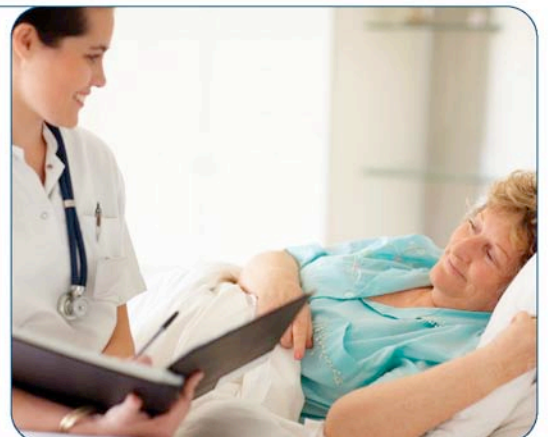
When the Czech Republic made the transition to a capitalist structure, medical billing was no longer covered by the state – patients had to pay for their healthcare. Nursing home staff billed patients by recording charges on hand-written forms and spreadsheet-based systems. This took time and often resulted in human error, which was not only worrying for patients but was costing the nursing homes. With the introduction of the CipherLab 8001 handheld terminal to scan barcodes on medical records and wristbands, patient information can be correctly documented with just a single scan. Now caregivers can store scanned data in the terminal and easily upload this data to the system when they are at their desks.



Accurate Treatment for Patients

With the right care being dependent on handwritten notes, the Taipei Veterans General Hospital decided to safeguard their patients against potential errors.

When Taipei Veterans General Hospital adopted the CipherLab small size 1660 BT scanners to record patients' information, there were numerous benefits. With its handy size, caregivers were given the mobility that they needed. By just scanning a patient's wristband, the caregiver can now see all physician notes, medication orders, and all relevant patient data directly on their tablets via BT communication. The displayed data enables caregivers to issue proper and accurate medical treatment to their patients. Once the patient has been treated, the caregiver can update the information on a tablet or notebook, and use the wireless communication to update the HIS system. This ensures that all patient information is kept up to date at all times.





		8001H
Communication	Options	Batch
	Serial	IrDA (115.2Kbps)
	CPU	16-bit
Performance	Program memory	2MB flash
	Data memory	2MB/4MB SRAM
	Operating power	Li-ion 3.7V, 700mAh
	Backup power	Rechargeable lithium 3.0V, 7.0 mAh
	Working time	100 hours
	Data retention	30 days
	Alert	Dual-color, vibrator, volume-programmable beeper
Data Capture	Barcode scanning	Linear imager / Laser
Physical Characteristics	Display	LCD 100 x 64 with LED backlight
	Keypad	21 rubber keys with white LED backlight
	Dimensions L x W x H	122 x 56 x 32 mm / 4.8 x 2.2 x 1.25 in.
	Weight <small>laser, including battery</small>	120 g / 4.2 oz.
User Environment	Operating temperature	-10 °C to 60 °C / 14 °F to 140 °F
	Storage temperature	-20 °C to 70 °C / -4 °F to 158 °F
	Humidity <small>no condensed</small>	Operating: 10% to 90% Storage: 5% to 95%
	Impact resistance	Multiple 1.2m / 4 ft. drops onto concrete, 5 drops on each side
	Electrostatic discharge	± 15 kV air discharge / ± 8 kV direct discharge
	EMC regulation	BSMI, CE, C-Tick, FCC, IC
Development Software	CipherLab Power Suite BLAZE C Compiler and BASIC Compiler	
Application Software	CipherLab Power Suite FORGE Application Generator including data transmission OCX, STREAM Wireless Studio, MIRROR Terminal Emulation	
Cradles	Communication cradles (USB or RS232, only for 8000), charging and communication cradle, modem cradle, Ethernet cradle, GSM/GPRS cradle (quad band)	
Accessories	4-slot battery charger, AC / DC adapter, RS232 cable, USB cable	
Warranty	1 year	



		1500H	1661H
Communication	Module	-	BT Class 3 (2.4 GHz) Version 2.0
	Converage (line of sight)	-	10 m / 33 ft. line of sight
	Standard profile	-	SPP, HID
Performance	Category	Linear imager scanner	BT linear imager scanner
	Optical sensor	2500 pixels	2500 pixels
	Light source	Red LED (625nm)	Red LED 625 nm
	Resolution	3 mil	3 mil
	Depth of field (depends on barcode resolution)	0.5 to 35 cm / 0.2 to 13.8 in	3.5 to 38 cm / 1.4 to 15 in.
	Scanning angle	Pitch ± 70° Skew ± 70°	Pitch ± 70° Skew ± 70°
	PCS	Minimum 30%	Minimum 30%
	Scan rate	200 scans/second 200 decodes/second	100 scans/second
	Ambient illumination	100,000 lux	-
	Hands-free scanning	Auto-sense and continuous modes	-
	Barcodes support	Codabar, Code 39, Code 93, Code 128, GS1 DataBar (RSS), Industrial 2 of 5, Interleave 2 of 5, ISBT-128, Italian and French Pharmacodes, Matrix 2 of 5, MSI, Plessey, Telepen, UPC / EAN / GS1-128, and more	
	Programmable features	Data editing, interface selection, symbology configuration	
	Language support	US and UK English, French, Italian, Belgian, Norwegian, Swedish, Spanish, Portuguese, German	
Physical Characteristics	Weight (including battery)	145 g / 5.1 oz	69 g
	Dimensions LxWxH	-	9.5 x 3.5 x 2 cm / 3.7 x 1.4 x 0.8 in.
	Color	White	
Electrical	Switch	Tactile Switch	Push-button switch, plus [Delete] key
	Memory	-	256K
	Working time	-	30 hours based on 1 scan / 5 seconds
	Operating power	+5V ±10%	Li-ion 3.7V, 850 mAh
	Power consumption <small>Standby/linked / Scanning / Maximum</small>	30 mA / 170 mA / 250 mA	15 mA / 150 mA / 250 mA
User Environment	Temperature	Operating: 0 °C to 50°C / 32°F to 122°F Storage: -20°C to 60°C / -4°F to 140°F	Operating: 0 °C to 50°C / 32°F to 122°F Storage: -20°C to 60°C / -4°F to 140°F
	Humidity (non-condensing)	Operating: 10% to 90% Storage: 5% to 95%	Operating: 10% to 90% Storage: 5% to 95%
	Impact resistance	1.5 m (4.9 ft) multiple drops onto concrete	90 cm / 3.0 ft. multiple drops onto concrete
	Ingress protection	IP30	-
	Electrostatic discharge	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air
	EMC regulation	BSMI, CE, C-tick, FCC, C, MIC	BSMI, CE, C-tick, FCC, MIC, NCC, IC, TELEC, SRMC
Configuration	Setup options include Window [®] -based ScanMaster software (included), by direct connection or printing out barcode settings	Setup options include Windows [®] -based ScanMaster software (included)	
Accessories	USB, RS232 and keyboard wedge cables, Three-way desk/wall/auto-sense stand with optional weighted base	3610 BT Transponder, Micro USB cable, and battery charger	
Warranty	5 year	1 year	



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