Fighting Microbes While Delivering High Work Efficiency

In an industry where cleanliness is vital, the importance of keeping a clean environment is paramount. CipherLab addresses the need for an AIDC application in a healthcare environment with its newly developed series of products with antimicrobial protection to prevent the growth of bacteria and maintain a clean environment.

CipherLab has developed a series of ergonomically designed mobile computers and workstations with antimicrobial technology—8000H, 8200H, 1500H, and 1600H series. For increased data accuracy, data collection, and data transfer, AIDC instruments with antimicrobial protection can only speed up routine daily tasks but also reduce the growth of bacteria and maintain cleanliness.

The enhanced sanitary protection resulting from both antimicrobial protection and disinfection-friendly housing includes the guards of bacteria that can cause illness and odors, and keeps the scanner cleaner longer.

### Antimicrobial Protection Series

#### CipherLab 8200H Series

- **Model**: 8200H
- **Features**: Antimicrobial protection, ergonomic design, high performance, and durable housing.
- **Applications**: Suitable for medical environments, pharmacy, and healthcare settings.

#### CipherLab 8000H Series

- **Model**: 8000H
- **Features**: Antimicrobial protection, high-performance engine, ergonomic design, and durable housing.
- **Applications**: Ideal for healthcare settings, laboratory environments, and medical facilities.

#### CipherLab 1500H Series

- **Model**: 1500H
- **Features**: Antimicrobial protection, high-performance engine, ergonomic design, and durable housing.
- **Applications**: Suitable for healthcare settings, pharmacy, and medical facilities.

#### CipherLab 1600H Series

- **Model**: 1600H
- **Features**: Antimicrobial protection, high-performance engine, ergonomic design, and durable housing.
- **Applications**: Ideal for healthcare settings, pharmacy, and medical facilities.

### Specifications

- **Light Source**: Laser: 650 nm ± 15 nm
- **Imager**: Linear imager, Laser, 2D imager
- **Scan Mode**: Reserve buffer / batch mode
- **Memory**: 8MB Flash / 32MB SDRAM
- **CPU**: 32-bit
- **Operating Power**: +5 V ± 10% / 3.7 V 800 mAh Li-ion battery
- **Working Time**: 24 to 40 hours based on 1 scan / 5 seconds
- **Humidity (non-condensed)**: 0% to 95%
- **Temperature**: -10 °C to 60 °C / 14 °F to 140 °F
- **Ambient Illumination**: 100,000 lux
- **Environment**: Recommended: Class 10000 (ISO 5) / Recommended: 250 ± 25 ppm / Recommended: ± 15 kV air discharge / ± 8 kV direct discharge
- **Power / Scan Key**: Power and scan keys
- **Certification**: BSMI, CE, C-Tick, FCC, IC, KC, NCC, SRMC, TELEC
- **Guarantee**: 1 year
- **Weight (laser, including battery)**: 150 g / 5.3 oz.
- **Dimensions (L x W x H)**: 122 x 56 x 32 mm / 4.8 x 2.2 x 1.25 in.
- **Accessories**: Power supply, charging base, battery charger, AC / DC adapter, RS232 cable, USB cable, protective cover, pistol grip, USB cable, RS232 cable, Protective cover, pistol grip, USB cable, RS232 cable
- **Applications**: Secure and reliable data capture, efficient data transfer, and improved workflow.
Antimicrobial Treatment Helps Reduce Microbial Growth

Unlike other devices claiming antimicrobial protection, which are often just coated with a protective film, CipherLab’s antimicrobial protection series has the antimicrobial technology built into the product itself – not just a coating that wears off with repeated use of alcohol wipes. Once bacteria come into contact with the surface, the biological function of the microbe is disrupted, interrupting the lifecycle of the microbe and stopping the reproduction of bacteria. The antimicrobial effect is an intrinsic part of the device and it will not wear off during its lifetime. By interrupting the presence of microbes, devices are easily kept clean for every time. There are less odors and stains resulting from microbial growth. These products with antimicrobial protection will have a lower average bioburden during their lifetime.

Disinfectant-Friendly Housing for a Clean and Hygienic Surface

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

Antimicrobial Protection Series Overview

8200H Versatile Design to Boost Workflow Efficiency
- Lightweight, ergonomic design that easily fits in the palm of your hand.
- 40-50 2D barcode readers.
- Up to 16 hours of operation in batch mode on a lithium-ion rechargeable battery.
- Available in gray and light gray for single digital interface.
- CipherLAB’s AVE software helps customers workflow and interface to suit your business.
- Recommended for inventory stock control, patient identification, medical management, and specimen tracking.

8000H Lightweight and Compact for Efficient Data Capture
- Portable device optimized for fixed or mobile terminal use.
- 16 hours of operation in batch mode on a lithium-ion, rechargeable battery ensures seamless workflow.
- Lightweight and compact form factor for greater mobility.
- CipherLAB AVE software helps customers workflow and interface to suit your business.
- Recommended for inventory stock control, patient identification, medical management, lab tests, and specimen tracking.

1500H Snappy Scanner Built for Comfort
- 1D and 2D barcode readers.
- CipherLAB’s AVE software can be downloaded in 30 minutes, as well as 2D and 1D barcode scanning.
- CipherLAB’s AVE software helps customers workflow and interface to suit your business.
- Recommended for patient identification, drug identification, and medical billing.

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 1600H mobile computer, caregivers can now store barcodes on a patient’s wristband, which can be scanned anytime. The introduction of the CipherLab 8001 mobile computer to scan barcodes on medical records and wristbands, patient information can be correctly documented with just a single scan. New caregivers can scan scanned data in the terminal and easily update the data to the system when they are at their desks.

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 reviewed patient condition at their bedside and then entered the information onto 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 8001 mobile computer, caregivers can now save 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.

Caregivers Gain Time for Their Patients

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

Keeping Costs Down and Saving Time

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

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Antimicrobial Treatment Helps Reduce Microbial Growth

Unlike other devices claiming antimicrobial protection, CipherLab’s antimicrobial protection series has an antimicrobial technology built into the product itself – not just a coating that wears off with repeated use of alcohol wipes. Once bacteria come into contact with the surface, the biological function of the microbe is disrupted, interrupting the lifecycle and stopping the reproduction of bacteria. The antimicrobial effect is an intrinsic part of the device and it will not wear off during its lifetime. By reiterating the presence of microbes, devices are easily kept clean for every time. There are less odors and stains resulting from microbial growth. These products with antimicrobial protection will have a lower average bioburden during their lifetime.

Antimicrobial Protection Series Overview

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CipherLab 8200H</td>
<td>Versatile Design to Boost Workflow Efficiency</td>
<td>- Lightweight, ergonomically designed that easily fits in the palm of your hand. - Hub continuous hours of operation is batch made on a lithium-ion rechargeable battery. - Forged AG software helps customize workflow and task list to suit your business.</td>
</tr>
<tr>
<td>CipherLab 800H</td>
<td>Lightweight and Compact for Efficient Data Capture</td>
<td>- Batch continuous data for new staff with a single button. - Rechargeable battery ensures seamless workflow. - CipherLab AG software helps customize workflow and task list to suit your business.</td>
</tr>
<tr>
<td>CipherLab 1500H</td>
<td>Snappy Scanner Built for Comfort</td>
<td>- Lightweight and ergonomically designed that can rendezvous with thousands of patients in a single day. - Large LED light and adjustable buzzer confirms successful scan, even in dim lighting. - CipherLab AG software helps customize workflow and task list to suit your business.</td>
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<tr>
<td>CipherLab 1600H</td>
<td>Pocket-sized for Maximum Mobility and Flexibility</td>
<td>- CipherLab AG software allows users to easily edit data, access and change configuration of symbologies, as well as tailoring the interface to suit individual work routines. - CipherLab AG software allows patients to edit and capture data. - CipherLab AG software allows users to edit data, access and change configuration of symbologies, as well as tailoring the interface to suit individual work routines.</td>
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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 malfunction. The launch of the new antimicrobial protection series has an extra feature of disinfectant-friendly white housing that allows the antimicrobial treated surface to withstand repeated alcohol cleaning. Fewer replacements are needed, resulting in a lower total cost of ownership.

Caregivers Gain Time for Their Patients

At the China Medical University Hospital (CMUH) in Taiwan, caregivers manually recorded patient information on their notebooks and then entered it into the hospital’s computer system at the nurses’ station. This was a very time-consuming and often met with frustration by caregivers who were spending a great deal of time on paperwork. With the implementation of the CipherLab 8200H mobile computer, caregivers can now scan barcodes on a patient’s wristband to enter their medical records. They are able to continuously track a patient’s symptoms on the terminal and upload this data via the communication cradle on the nursing station. The data can be instantly displayed on a laptop or a monitor for any doctors to view. Thereby, the time saved from the tedious paperwork can be spent with patients for better, more personalized treatment.

Keeping Costs Down and Saving Time

Nursing homes in the Czech Republic gained accuracy and reduced money on their billing systems. When the Czech Republic made the transition to a capitalist structure, medical billing was no longer supervised by the state – patients had to pay for their healthcare. Nursing home staff billed patients by recording charges on handwritten forms and spreadsheet-based systems. This was time-consuming and often resulted in human error, which was not only worrying for patients but was costing the nursing homes money. With the introduction of the CipherLab 800H enable computer to scan barcodes on medical records and wristbands, patient information can be correctly documented with just a single click. New caregivers can scan scanned data in the terminal and easily upload the data to the system where 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 Taiwan Veterans General Hospital acquired the CipherLab 800H mobile computers with CipherLab AG scanners to record patient information, there were numerous benefits. With the new technology caregivers were given the option to choose which barcodes to scan before scanning a patient’s wristband, the caregivers can now use all possible records, including medication, patient identification, and medical billing through CipherLab’s proprietary “aclick” communication. The deployed data enables caregivers to issue proper and accurate medication to their patients. Once the patient has been treated the caregiver can store the data on a tablet or notebook, and use the communicate to upload the data to the HIS system. This ensures that patient information is kept up to date at all times.

Note: This information is based on standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for CipherLab’s antimicrobial protection series. The ScanMaster software enables easy data editing and configuration of symbologies, as well as tailoring the interface to suit individual work routines. The ScanMaster software enables easy data editing and configuration of symbologies, as well as tailoring the interface to suit individual work routines. The ScanMaster software enables easy data editing and configuration of symbologies, as well as tailoring the interface to suit individual work routines.
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Antimicrobial Protection Series Overview

CipherLab’s antimicrobial protection series has an extra feature of antimicrobial treated surface to withstand repeated cleaning. There are less microbes on the surface and they are easier to keep clean. Microbes are not just reduced in quantity, but they are also destroyed. The antimicrobial technology build up in the surface is effective for 99.9% of microorganism and can be maintained for years. The presence of microbes is thus decreased to a level lower than the detection limit, which means that the product is almost free of microbes. The product will still work perfectly even if the surface appears to be dirty or have stains. In other words, the antimicrobial effect is present even when the surface looks dirty.

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 protection series has an extra feature of antimicrobial treated surface to withstand repeated alcohol cleaning. Fewer replacements are needed, resulting in a lower total cost of ownership.

8200H Versatile Design to Boost Workflow Efficiency

- Lightweight, ergonomic design that easily fits to the palm of your hand.
- Optional 10 and 20 barcode readers.
- Up to 36 hours of operation on a single battery.
- Reliable and robust design for inbuilt durability.
- Perfectly matches CipherLab’s software to create a complete solution.
- Recommended for inventory stock control, patient identification, record management, and specimen tracking.

8000H Lightweight and Compact for Efficient Data Capture

- Single-handed grip for quick and easy scanning.
- Excellent scan performance and read efficiency.
- Up to 36 hours of operation on a single battery.
- Reliable and robust design for inbuilt durability.
- CipherLab’s software to create a complete solution.
- Recommended for inventory stock control, patient identification, record management, and specimen tracking.

1500H Snappy Scanner Built for Comfort

- 1D and 2D barcode scans.
- Customizable 1D and 2D barcode scans.
- Adjustable stand can be wall mounted, placed on a desk, or in a fixed position for auto-sense scanning.
- Supports 1D and 2D barcodes.
- Optional 1D and 2D barcode readers.
- Optional Bluetooth® Class 2 connectivity enables 90 m wireless communication to update the HIS system. This ensures that all patient information is kept up to date at all times.
- Forged AG software helps customize workflow and configuration of symbologies, as well as tailoring the interface to suit individual work routines.
- Supports 1D and 2D barcodes.
- Optional 1D and 2D barcode readers.
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Fighting Microbes
While Delivering High Work Efficiency

In an industry where cleanliness is vital, the importance of fighting against the spread of bacteria is increasing. CipherLab addresses the needs of an AIDC application in a healthcare environment with its newly developed series of products with antimicrobial protection to prevent the growth of odor-and-stain-causing bacteria.

CipherLab has developed a series of ergonomically designed mobile calculators and terminals with antimicrobial technology—1500H, 1600H, and 1560 series. For counter and data Collectors, and data transfer AIDC instruments with antimicrobial protection can only open new-era daily tasks but also solve the growth of odor-and-stain-causing bacteria.

The enhanced sanitary protection resulting from both antimicrobial protection and disinfectant-friendly housing inhibits the growth of bacteria that can cause odor and stains, and keeps the scanner cleaner longer-lasting.

When Cleanliness Counts
CipherLab Safeguards Products with Antimicrobial Protection
In an industry where cleanliness is vital, the importance of fighting microorganisms cannot be overstated. CipherLab addresses the needs of an AIDC application in a healthcare environment with its new dedicated series of products with antimicrobial protection to prevent the growth of odor and stain-causing bacteria.

CipherLab has developed a series of ergonomically designed mobile computers and scanners with antimicrobial technology—8000H, 8200H, 1500H, and 1600H series. The enhanced sanitary protection resulting from both antimicrobial technology and disinfectant-friendly design makes these instruments ideal for environments where cleanliness is paramount.

The extended sanitary protection resulting from both antimicrobial protection and disinfectant-friendlyhousing includes the guards of bacteria that can cause odors and stains, and keeps the scanner cleaner between cleaning cycles.