

# Defibrillation with AED

## High performance to satisfy your needs

In 1966, Nihon Kohden manufactured Japan's first direct current defibrillator. From our long experience in this field, we provide reliable solutions for all defibrillator needs.

### ActiBiphasic



TEC-5500K series provides low energy biphasic waveform defibrillation. Biphasic waveform defibrillation requires lower energy than conventional monophasic defibrillation and causes less damage to myocardium. Biphasic technology demonstrates superior results to save the patient from sudden cardiac arrest. Nihon Kohden's unique ActiBiphasic\* technology provides an improvement over most conventional biphasic circuits by employing an original T-circuit. In conventional biphasic circuits, when impedance is high, the pulse width becomes wider which reduces the efficiency of defibrillation. Nihon Kohden's T-circuit actively controls the shape of the second phase waveform to maintain constant pulse width. \*Patent pending

### AED with voice prompt

AED (Automated External Defibrillation) is available with disposable pad adaptor cable (option) and disposable pads. When shockable rhythm is detected, TEC-5500K automatically starts charging for hands-free defibrillation. CPR timing sound is also provided. Voice prompt is available as standard provision for less frequent users.



### SpO<sub>2</sub>/CO<sub>2</sub> monitoring (option)

You can easily add measuring parameters of SpO<sub>2</sub> and CO<sub>2</sub> with an optional unit. 2 waveforms can be displayed simultaneously on a crisp TFT color LCD screen.



# cardiolife

## Defibrillator

TEC-5521K

TEC-5531K

## Compact & High performance

### Biphasic, AED & SpO<sub>2</sub>/CO<sub>2</sub> monitoring



TEC-5531K (shown with options)

## Major options

For full list of options and consumables, see the Technical Data separately available



Cart, KD-028A  
Tray for cart, DI-001A



Internal paddle electrode  
ND-762V/763V/764V/765V/766V/767V  
Available in six sizes (25, 35, 45, 55, 65, 75 mm dia)



Disposable pads  
Adult [H315] P-510  
Child [H316] P-512  
Disposable pad adaptor cable  
JC-765V



DSI interface unit, QI-552V, for SpO<sub>2</sub> and CO<sub>2</sub> (photo)  
DSI/AUX out interface unit, QI-553V, for SpO<sub>2</sub> or CO<sub>2</sub> and AUX



CO<sub>2</sub> sensor kit, [P906] TG-901T3

Airway adapter, [R801] YG-101T

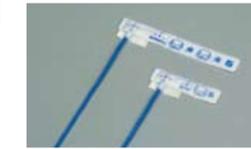
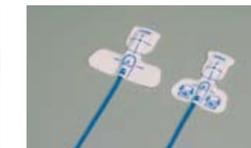


CO<sub>2</sub> sensor kit, [P908] TG-921T3

Disposable naso-oral adapter, for non-intubated, [V922] YG-121T [V923] YG-122T  
Airway adapter for P908, for intubated [R804] YG-111T



SpO<sub>2</sub> adapter, [Y090] JL-951T3  
Reusable SpO<sub>2</sub> probe BluPRO, [P225F] TL-201T



Disposable SpO<sub>2</sub> probe BluPRO, [P203A] TL-271T, [P203B] TL-272T, [P203C] TL-273T, [P203D] TL-274T



Defibrillator analyzer, AX-103VK



Battery charger, SB-551V



Rechargeable battery, [X065] NKB-301V



SD card [S], QM-064D [Y154]

Gel holder kit, YZ-025H0



Pediatric electrode assy, ND-612V, 44 mm dia

Defibrillation report viewer software, QP-551VK

This brochure may be revised or replaced by Nihon Kohden at any time without notice.

# cardiolife — Fast and Reliable Defibrillation with ActiBiphasic technology

## No waiting time for defibrillation

- **Fast charging**  
3 seconds for 200J, 5 seconds for 270J charging in AC operation or fully charged new battery.

- **Quick recovery**  
3 seconds ECG recovery shows the defibrillation result quickly.



## Powerful battery operation

### High capacity

A fully charged new battery provides at least 70 discharges at 270J or 150 minutes continuous monitoring.\*

(\*see Technical Data for specific conditions)

### Short charging time

Approx. 2 hours (maximum 3 hours) to fully charge with AC cord connected and power off.

## Airway management with CO<sub>2</sub> mainstream method on capONE (option)

cap-ONE, the world's first mainstream CO<sub>2</sub> sensor, can measure EtCO<sub>2</sub> of non-intubated patients. It can also measure intubated patients just by changing the airway adapter. No complicated setting or warm-up time is required so you can obtain CO<sub>2</sub> quickly and accurately. A CO<sub>2</sub> sensor kit, TG-901T3, is also available for intubated patients.



## Compact and lightweight

### Easy to carry in an emergency



## Voice recorder

Voice and ECG waveform at the defibrillation can be saved in the optional SD memory card. You can replay on PC or TEC-5500K series defibrillator what happened and what was done.



## User-oriented unique designs

### Inclined design

- The paddle holder is slightly inclined for easier placing and removing of the paddles.
- Screen and operation panels are also inclined for easier viewing from a standing position.

### Practical external paddles

- The paddles include child electrodes underneath the adult electrodes.
- Electrode-skin contact quality is indicated by easy to see color-coded indicators.



### Easy paddle change

You can change paddles easily with one connector.



## Noninvasive pacing (TEC-5531K)

External pacing capabilities are built-in. Pacing is very effective for recovery from bradycardia after defibrillation.



TEC-5521K (with optional unit)

### Convenient paddle rest

Convenient paddle rests for temporary storage of prepped external paddles.

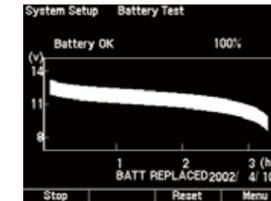


## Reliable and stable operation

- **Protection from sudden capacitor failure**  
The high voltage capacitor is divided into thousands of individual cells to prevent sudden, total failure of the capacitor. If any part fails, the remaining cells can still provide shock. The high-voltage capacitor is automatically tested by a capacitor test program which measures the capacitance by charging and discharging.

### Reliable battery operation

An optional NiMH (nickel metal hydride) rechargeable battery provides reliable battery operation. A new real load testing method indicates the actual remaining charge so you can know approximately how many defibrillations are available. Battery performance test is done by simulating actual charging and discharging



to accurately test the quality of the rechargeable battery.

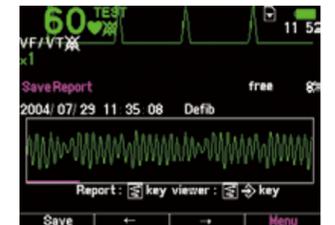
## Built-in recorder

2-channel built in thermal array recorder records various defibrillation information.



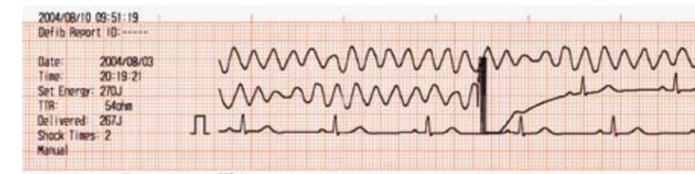
## Review and reporting

Saved data can be transferred to a PC using an optional SD memory card, and reviewed on the PC with optional Defibrillation Report Viewer software, QP-765VK/551VK. Recorded voice can be replayed on the PC with QP-551VK.

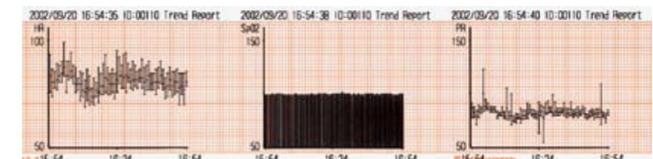


### Easy routine checking

You can easily check the instrument at any time.



Defibrillation report



Trend report