

# 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 for TEC-7700K series

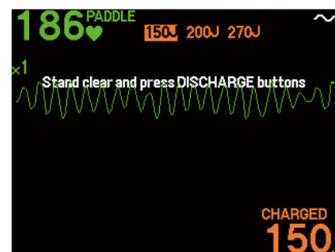
TEC-7700K series provides low energy biphasic waveform defibrillation. Biphasic waveform defibrillation requires lower energy than conventional monophasic defibrillation and causes less damage to myocardium. Biphasic technology demonstrates superior results to save the patient from sudden cardiac arrest. 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, 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



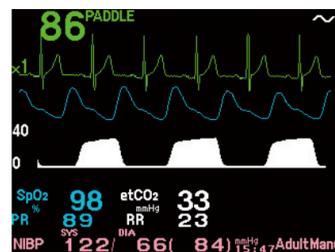
### AED with optional voice prompt

AED (Automated External Defibrillation) is available with disposable pad adaptor cable (option) and disposable pads. When shockable rhythm is detected, TEC-7600K/7700K automatically starts charging for hands-free defibrillation. CPR timing sound is also provided. Voice prompt is optionally available for less frequent users.



### Multi-parameter monitoring (option)

You can easily add measuring parameters such as SpO<sub>2</sub>, CO<sub>2</sub>, and NIBP with an optional unit. 3 waveforms can be displayed simultaneously on a crisp TFT color LCD screen.



# cardiolife

## Defibrillators

TEC-7621K/7631K (Monophasic)

TEC-7721K/7731K (Biphasic)

Save a life with



cardiolife

## Biphasic or Monophasic

## AED & multi-parameter monitoring



TEC-7731K (shown with options)

### Major options

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



Cart, KD-022A  
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-762V,  
for SpO<sub>2</sub> and CO<sub>2</sub> (photo)  
DSI/AUX out interface unit,  
QI-763V, for SpO<sub>2</sub> or CO<sub>2</sub>  
and AUX



NIBP unit, SG-761VK



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



Gel holder kit, YZ-025H0



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



Defibrillator analyzer,  
AX-103VK



Battery charger, SB-551V



Rechargeable battery,  
[X065] NKB-301V

Voice prompt unit, VP-761V

12 lead ECG unit, AC-761VK/VA

Transmitter, ZS-900PK

Transmitter interface unit,  
QI-761V

Memory card, QM-040V  
for data transfer to PC

Gel holder kit, YZ-025H0

Defib report viewer soft-  
ware, QP-765VK

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

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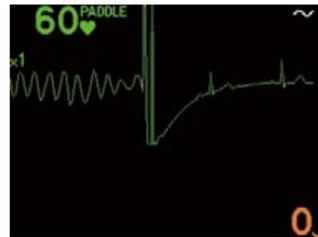
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Fighting Disease with Electronics

# cardiolife — Fast and Reliable Defibrillation / Biphasic or monophasic waveform

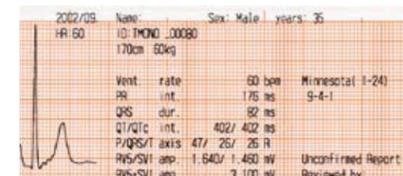
## No waiting time for defibrillation

- Fast charging**  
3 seconds for 200J, 5 seconds for 360J (TEC-7600K series) and 270J (TEC-7700K series) charging in AC operation
- Quick recovery**  
3 seconds ECG recovery shows the defibrillation result quickly.

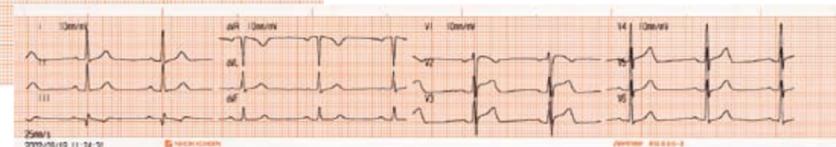


## 12-lead ECG interpretation (option)

By connecting AC-761VK/VA 12-lead ECG unit, you can measure and analyze 12-lead ECG. Analysis is based on our ECAPS 12C interpretation program which is used for our electrocardiographs. Analysis result can be saved to the memory card and reviewed on the PC with ECG viewer software.

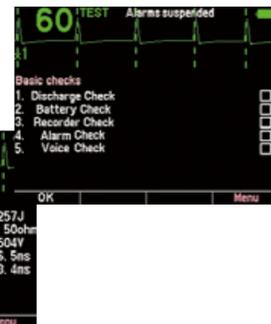
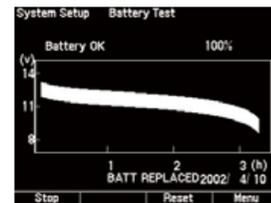


1100 Sinus rhythm  
4037 ST elevation, consistent with subepicardial injury, pericarditis, or early repolarization  
4164 T wave abnormality, possible anterior ischemia  
9150 \*\* abnormal ECG \*\*



## 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.
- Easy routine checking**  
You can easily check the instrument at any time.



## 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.



TEC-7621K (with optional unit)

### 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.



### Convenient paddle rest

Convenient paddle rests for temporary storage of prepped external paddles.



### Easy paddle change

You can change paddles easily with one connector.



## 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.



## Telemetry networking (option)

### Transmitting data

By attaching an optional ZS-900PK transmitter and QI-761V transmitter interface unit, ECG, SpO<sub>2</sub>, CO<sub>2</sub> and NIBP signals can be transmitted to a Nihon Kohden telemetry monitor such as WEP-4204/4208K.



## Noninvasive pacing (TEC-7631/7731K)

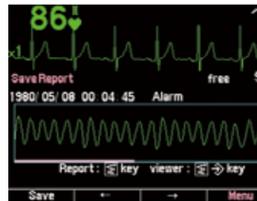
External pacing capabilities are built-in. Pacing is very effective for recovery from bradycardia after defibrillation.



## Review and reporting

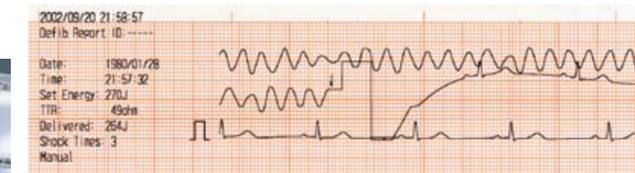
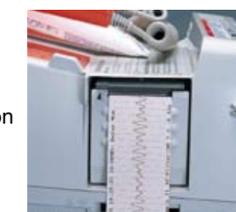
ECG waveform and annotated data from 8 seconds before to 12 seconds after defibrillation is saved automatically.

Saved data can be transferred to a PC using an optional memory card, and reviewed on the PC with optional Defib Report Viewer software, QP-765VK.

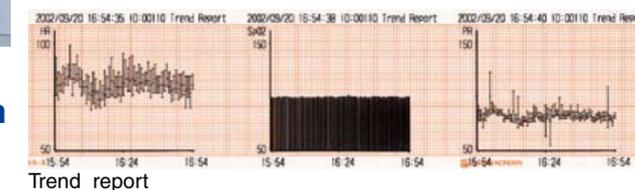


## Built-in recorder

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



### Defibrillation report



### Trend report

## Powerful battery operation

### High capacity

A fully charged new battery provides at least 70 discharges at 360J (TEC-7600K series) / 270J (TEC-7700K series) or 150 minutes continuous monitoring.\*

(\*under specific conditions, see Technical Data)

### Short charging time

It requires approx. 2 hours (maximum 3 hours) to charge with AC and power off.

## Selection guide

	TEC-7621K	TEC-7631K	TEC-7721K	TEC-7731K
Monophasic/Biphasic waveform	Monophasic	Monophasic	Biphasic	Biphasic
AED	✓	✓	✓	✓
Noninvasive pacing	—	✓	—	✓
Recorder	✓	✓	✓	✓