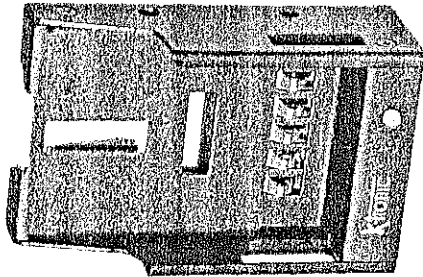


Operating instructions

Please read and keep in hand



The holder/ charger unit KVC-21, fitting KENWOOD TK-2180, TK-3180, TK-2260EX, TK3260EX and NX-200/ 300 hand radio sets, is a holding device with an integrated microprocessor controlled battery charger, which automatically switches off when the battery is fully charged. All battery sizes of the Ni-Cd-, Ni-MH and Li-Ion type (KNB-31 up to KNB-33, KNB-47 KNB-48, KNB-54, KNB-58LEX and KNB-64LEX) can be used and charged with or without the radio set.

Charging of Ni-Cd-, Ni-MH type batteries is interrupted according to the -ΔV method. Li-Ion type batteries are charged according to the constant current/ voltage process.

If the radio set is on and has been in operation for a prolonged period of time the battery voltage drops. Detecting a certain voltage limit the electronic charging circuit starts loading automatically. So it is assured that at least 70-80% charging capacity is usable anytime.

1. Installation

Mount the U-shaped bracket in an appropriate, water protected place in the vehicle in such a way that the radio set can be inserted from above and does not cause any obstruction. Fix the holder/ charger unit KVC-21 with the 4 provided fixing screws. The angle of inclination for the holder/ charger unit can be adjusted before the screws are finally tightened. Connect the power supply lead as close as possible to the car battery and fit the DC-plug in the holder/ charger unit from below. If necessary, the DC-lead can be fixed to the unit with a M3-screw. The vehicle manufacturers' instructions must be considered.

red = +12V respectively +24V,
black = negative pole/ car-body.

2. Charging

The charging process begins, when the battery is inserted and the battery temperature lies below 50°C.

Whilst the battery is in charging, the casing of the holder/ charger unit warms up slightly, which is entirely normal. After charging the battery may remain in the holder/ charger unit.

Attention: This holder/ charger unit must not be used in explosive areas.

3. Indicators

LED indicator	Description
Unique green/red/orange	Supply voltage is connected.
Orange	Charging Ni-Cd/ Ni-MH
Red	Charging Li-Ion ¹⁾
Green	The charge is complete.
Green flashes	The battery can not be charged. Battery defect possible.
Red flashes	Charge interrupted because of temperature exceeding.
Red clocks	The battery can not be charged. Contact deformed?

¹⁾ When an extremely flat battery is inserted the indicator changes colour from orange to red after ca. 30 minutes.

4. Connections

DC-plug 2.1mm, (+) -pole inside = red connection lead. The casing is connected with the (-) -pole = black connection lead.

5. Technical Data

Supply voltage

12 up to 35 Volts / DC
USA FZA

Fuse

Current Uptake

with Battery at 13.3 Volt during charging (NiCd, NiMH)
input current: ca. 650 mA
charging current: ca. 750 mA

with Battery at 24 Volt during charging (NiCd, NiMH)
input current: ca. 350 mA
charging current: ca. 750 mA

With Li-Ion charging at 13.3V const. current: ca.650mA
const. voltage: 8.4V

Standby current: ca. 5 mA

Dimensions (w/h/d)

68 x 105 x 37mm

Colour

RAL 9005 - solvent free coating

6. Disposal of waste

For environment and health protection according to the EU electronic waste directive (WEEE) this electrical equipment should not reach the household waste.

K-tronic ist connected to a waste management system. In EU countries the electrical equipment will be properly disposed, if lead to the local waste collection system.

This product equates to the protection requirements according to: FTEG, Directive 1989/5/EG (R&TTE); harmonized standards: ETSI EN 301 489-1/5; Tested according to ISO 7636-2:2004

www.K-tronic.de