

# ■ PROJECTION ALARM CLOCK



KH 2198



KH 2199

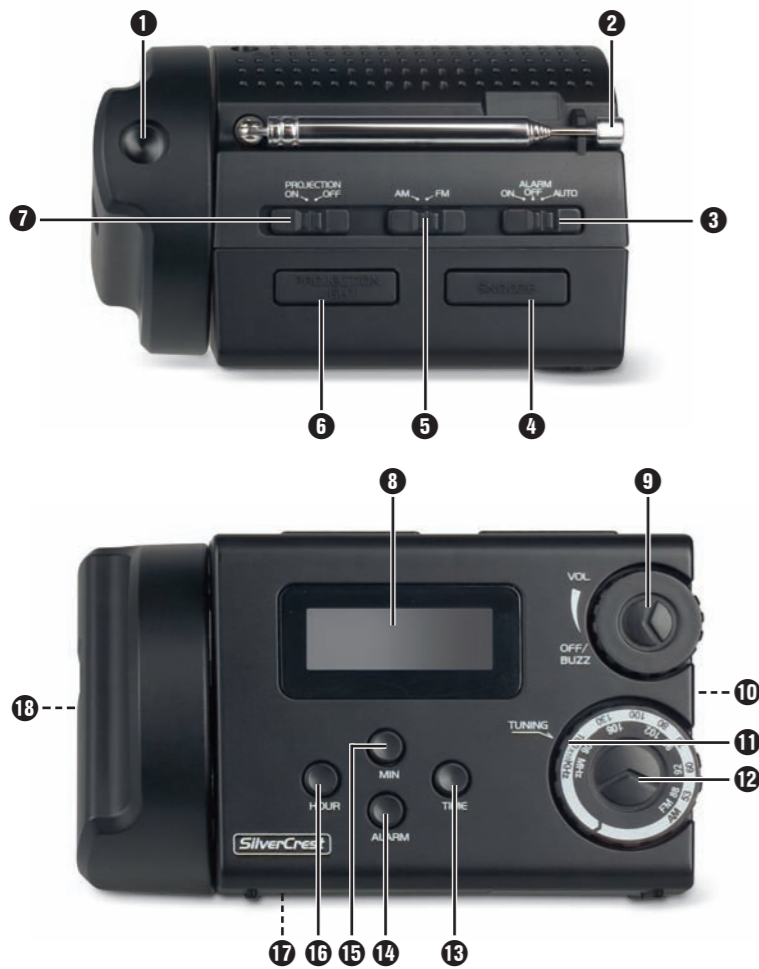


## PROJECTION ALARM CLOCK

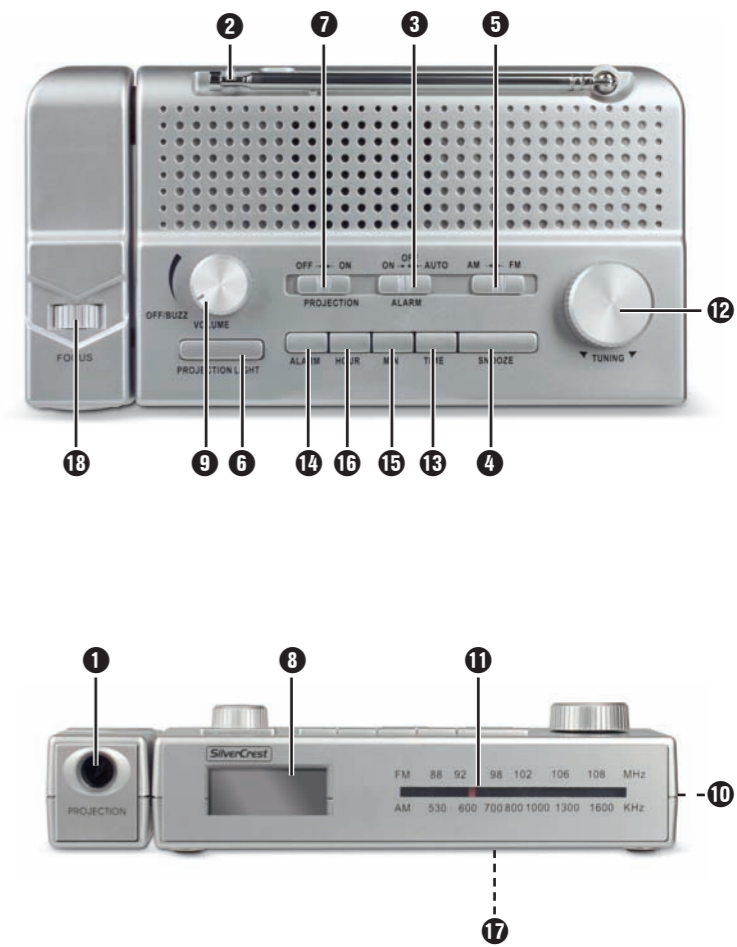
Operating instructions

KOMPERNASS GMBH · BURGSTRASSE 21 ·  
D-44867 BOCHUM  
[www.kompernass.com](http://www.kompernass.com)  
ID-Nr.: KH2198\_99-11/08-V2

KH 2198



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Read these operating instructions carefully before using the device for the first time and preserve this manual for future reference. Pass this manual on to whoever might acquire the device at a future date.

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# PROJECTION ALARM CLOCK

## KH2198/99

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### Safety information

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**⚠ To avoid potentially fatal injury through electric shock:**

- Only use the device in dry rooms.
- Never allow fluids or objects to penetrate into the device.
- Do not place objects containing fluids, e.g. flower vases, on the device.

**⚠ To avoid burn and other injuries:**

- Place the device in an open and well-ventilated area so that heat pockets cannot be created within it. Never cover the ventilation slits!
- Do not place open fire sources, e.g. candles, on the device.
- Avoid close proximity to heat sources, e.g. direct solar radiation, heaters and other devices etc.!
- This device is not intended for use by individuals (including children) with restricted physical, physiological or intellectual abilities or deficiencies in experience and/or knowledge unless they are supervised by a person responsible for their safety or receive from this person instruction in how the device is to be used.
- Children should be supervised to ensure that they do not play with the device.

**ⓘ Note:**

Only for KH2199: This device is equipped with non-slip rubber pads. As floor and furniture upper surfaces comprise of various materials and are cleaned with various types of polishes and/or cleaning agents, it cannot be completely excluded that some of these substances contain components that could attack the rubber pads and soften them. If possible place an anti-slip material under the pads of the device.

**ⓘ Note:**

In certain countries there could be exceptional regulations for the allocated radio frequency ranges.

Take note that you may not exploit irregularly received radio services, pass them on to third parties or improperly misuse them.

**⚠ Information regarding the handling of batteries**

The device uses batteries. When handling batteries, please observe the following:

**⚠ *Explosion Hazard!***

- Do not throw batteries into a fire. Do not recharge the batteries.
- Never open batteries, never solder or weld batteries. The risk of explosions and injuries exists!
- Regularly check the condition of the batteries. Leaking batteries can cause damage to the device.
- If you do not intend to use the device for an extended period, remove the batteries.

- In the event of the batteries leaking acids, put on a pair of protective gloves.
- Clean the battery compartment and the battery contacts with a dry cloth.
- Keep batteries away from children. Children could put batteries into their mouths and swallow them. If a battery is swallowed, medical assistance must be sought IMMEDIATELY.

### **Important !**

*No liability/warranty claims will be considered for damage to the device caused by the effects of moisture, water penetration or overheating!*

## Intended Use

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This device is designed to wake you by means of an alarm tone or radio and also for the reception of radio transmissions. Any other usage of, or modification to, the device is deemed to be improper usage and carries the risk of serious personal injury. The manufacturer accepts no liability for damages that result from an improper use of the device or that are caused by an incorrect operation of it. It is not intended for commercial use.

# Items supplied

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1 Projection alarm clock with radio, 1 Operating manual

The batteries and a 3V-mains adaptor (accessories), required for operation, are not included in the supply.

After unpacking the device, immediately check to determine that all listed items are present and that the device is in a faultless condition. Remove all packaging materials and the protective foil from the display.

## Operating Elements

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- 1 Projection lens
- 2 Telescopic antenna
- 3 Switch ALARM ON/OFF/AUTO
- 4 Button SNOOZE
- 5 Waveband selector FM/AM
- 6 Button PROJECTION LIGHT, Display illumination
- 7 Switch PROJECTION ON/OFF
- 8 Display
- 9 Sound volume regulator OFF/BUZZ/VOLUME
- 10 Connection for 3V power adapter
- 11 Frequency scale
- 12 TUNING regulator
- 13 Button TIME
- 14 Button ALARM
- 15 Button MIN (Minute)
- 16 Button HOUR (Stunde)
- 17 Battery compartment
- 18 Projection focus (FOCUS)

# Technical Data

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*This device has been tested and approved in accordance with the basic requirements and other relevant regulations of the EMC guidelines 2004/108/EC as well as the guidelines for low voltage devices 2006/95/EC.*

## **Battery operation:**

KH2198: 3 x 1.5 V Type Micro / AAA / LR03 (not supplied) for radio operation, display illumination and projection.

KH2199: 3 x 1.5 V Type Mignon / AA / LR06 (not supplied) for radio operation, display illumination and projection.

Operating voltage : 3 V (Radio operation/Projection), 1.5 V (hour)

## **Frequency range :**

FM (USW) : 87,5-108,0 MHz

AM (MW) : 530-1600 kHz

## **Mains adapter:**

(Mains adapter not supplied)


Input voltage: 230 V ~ 50 Hz

Output voltage: DC 3V (+/- 5%)

Rated current: min. 300 mA

Polarity: 

Even when using 3 V mains adapter, a battery must be inserted. Otherwise, the clock will not function.

For Model KH2198: Insert the single battery into the upper part of the battery compartment . The two other batteries, one above the other, power radio operation and the projection.

For Model KH2199: Insert the single battery into the compartment marked "CLOCK USE".



### **Important:**

Ensure that you have the correct polarities with the batteries and the power adapter.

False polarity will damage the device.

The device can be operated as follows:




- only with batteries ,
- with a mains power adapter and a battery for the clock.

## Inserting the batteries

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KH2198:

You require three 1.5 V batteries of the type Micro / AAA / LR03.

1. Open the cover of the battery compartment  on the underside.
2. Insert the three batteries into the battery compartment , paying heed to the polarity markings shown in the battery compartment .  
Ensure that the black textile strip is positioned under the batteries, this will make future battery exchanges easier.
3. Close the cover, ensuring that it engages.

KH2199:

You require three 1.5 V batteries of the type Mignon / AA / LR06.

1. Open the cover of the battery compartment  on the underside.
2. Insert the three batteries into the battery compartment , paying heed to the polarity markings shown in the battery compartment .
3. Close the cover, ensuring that it engages.

# Placing

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- Place the projection clock onto a level surface.
- Position the projection clock such that the projection lens **1** is directed onto an empty surface. The distance from the projection lens to the projection area (ceiling or wall) must lie between 0,4 m and 3 m.

With KH2198: Projection of the time must be directed to an area lying **behind** the projection alarm clock. Otherwise, the time will be shown back to front.

With KH2199: Projection of the time must be directed to an area lying **in front of** the projection alarm clock. Otherwise, the time will be shown back to front.

# Operation

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## Connect the external mains adaptor

This device can be operated with an external mains adaptor.

Please use only mains adaptors that meet these specifications:


Input voltage: 230 V ~ 50 Hz

Output voltage: DC 3V (+/- 5%)

Rated current: min. 300 mA

Polarity: 

## Attention:

Make certain that the polarity is correct – both for the batteries as well as for the mains adaptor. Take note of the markings on the 3V direct current connection **10** .

False polarity will damage the device.

## Radio operation

1. Slide the switch ALARM ON/OFF/AUTO ③ into the position "ON".
2. To switch on, turn the volume controller OFF/BUZZ/VOLUME ⑨ until an audible »Click« is heard.
3. Using the volume controller OFF/BUZZ/VOLUME ⑨ now set the desired sound volume level.
4. Place the waveband selector switch ⑤ at the desired frequency range (FM/AM).
5. Adjust the tuning regulator ⑫ to select the desired radio station. The frequencies can be read off from the frequency scale ⑪.
6. To switch off, slide the switch ALARM ON/OFF/AUTO ③ into the position "OFF".

### **i** Note:

The radio is only switched off when the switch ALARM ON/OFF/AUTO ③ is at the positions OFF or AUTO. To simply turn the sound volume regulator ⑨ to very quiet, until a »Click« is heard, is not sufficient.

## Setting up the telescope aerial

- Remove the telescope aerial ② from its retainer and set it up.
- Extend the telescope aerial ② completely.

To improve reception in the FM frequency range, slowly turn the end of the telescope aerial ② in various directions. As soon as you have found a position with good reception from your desired radio station, leave the telescope aerial ② in this position. For the reception of AM transmissions, an antenna is built into the device. For improved reception, alter the position of the device in radio mode.

## Setting the time

Whilst holding the button TIME 13 pressed down:

1. Press several times consecutively, or press and hold, the button HOUR 16 to set the hours.
2. Release the button HOUR 16 as soon as the desired hours setting is shown in the display 8.
3. Press several times consecutively, or press and hold, the button MIN 15 to set the minutes.
4. Release the button MIN 15 as soon as the desired minutes setting is shown in the display 8.

The programmed time will be accepted automatically as soon as the button TIME 13 is released.

## Setting the alarm time

If the clock is set correctly, as described above:


Whilst holding the button ALARM 14 pressed down:

1. Press several times consecutively, or press and hold, the button HOUR 16 to set the hours.
2. Release the button HOUR 16 as soon as the desired hours setting is shown in the display 8.
3. Press several times consecutively, or press and hold, the button MIN 15 to set the minutes.
4. Release the button MIN 15 as soon as the desired minutes setting is shown in the display 8.

The adjusted alarm time will be automatically accepted as soon as the button ALARM 14 is released.

## Radio alarm call

When the clock is set correctly, as described above:

1. Adjust the tuning regulator **12** to select the desired radio station.
2. Using the sound volume controller OFF/BUZZ/VOLUME **9** now set the desired sound volume level.
3. To activate an alarm call with radio, place the switch ALARM ON/OFF/AUTO **3** at "AUTO". The symbol for the alarm function  and "Zz" appear in the display **8**.


At the programmed time the radio switches itself on. If you do not touch any other buttons while the alarm is sounding, after about a minute the radio switches itself off. The radio gives its next alarm call on the following day at the programmed time.

## Snooze Function

Pressing the SNOOZE **4** button interrupts the alarm tone for approx. 8 minutes. For as long as the snooze function is activated the indicator "Zz" blinks in the display. After these 8 minutes, the alarm tone is repeated. Place the switch ALARM ON/OFF/AUTO **3** at "OFF" to switch the alarm function off completely.

## Wakening with the alarm tone

When the clock is set correctly, as described above:

1. Place the sound volume controller OFF/BUZZ/VOLUME **9** at "OFF/BUZZ". A "Click" will be heard.
2. To activate a wake-up call with the alarm tone place the ALARM ON/OFF/AUTO **3** at "AUTO". The symbol for the alarm function  and "Zz" appear in the display **8**.

The alarm tone sounds at the programmed time. If you do not touch any other buttons while the alarm is sounding, after about a minute the alarm tone switches itself off. The radio gives its next alarm call on the following day at the programmed time.

## Projection

Attention! When used properly, the radiation from the projection of the display is not at all dangerous!. However, avoid looking directly into the light beam and do not aim the beam at other persons or at animals.

To display the time correctly on a wall or the ceiling, the hinged projection element needs to be swivelled into the correct position and the room must be appropriately darkened..

1. Place the PROJECTION ON/OFF **7** switch at ON.
2. Adjust the projection element as desired. The time is projected onto the required position. The projection distance is approx. 40cm - 3m.
3. Adjust the clarity of the projection with the projection focus **18**.

## Background lighting for the display and projection

A one-time pressing of the button PROJECTION LIGHT **6** activates the display illumination and the time projection for approx. 10 seconds.

## Cleaning and care

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### Attention:

Never permit fluids to permeate inside the device.

The device could also be irreparably damaged!

- Keep the device and the ventilation openings clean at all times.
- Use a soft cloth to clean the device housing.
- Never use detergents or solvents that could damage plastics.
- Check the state and charge condition of the inserted batteries at least once a year.

# Disposal

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**Do not dispose of the device in your normal domestic waste.**  
**This product is subject to the provisions of European Directive**  
**2002/96/EC.**

Dispose of the device through an approved disposal centre or at your community waste facility.

Observe the currently applicable regulations.

In case of doubt, please contact your waste disposal centre.

## Disposal of batteries/accumulators

Used batteries/rechargeable batteries may not be disposed of in household waste. All consumers are statutorily obliged to dispose of batteries at a collection site of their community/city district or at a retail store.

The purpose of this obligation is to ensure that batteries are disposed of in a non-polluting manner. Only dispose of batteries when they are fully discharged.



Dispose of all packaging materials in an environmentally friendly manner.

# Warranty and Service

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You receive a 3-year warranty for this device as of the purchase date. Should you, in spite of our high quality standards, have grounds for complaint please contact our Service Hotline.

In the event that processing of your complaint is not possible by telephone you will receive

- a processing number (RMA number) as well as
- an address, to which you can send your product for warranty processing.

In the case of a mail-in shipment please enclose a copy of the purchase receipt (sales slip). The device must be securely packed and the RMA number clearly visible. Products sent in without the RMA number cannot be processed.

 **Note:**

*The warranty provisions cover only material or factory defects.*

*The warranty is not valid;*

- *for worn out parts*
- *for damages to breakable parts, such as switches and batteries.*

This product is for private use only and is not intended for commercial use. The warranty is void in the case of abusive and improper handling, use of force and internal modifications not carried out by our authorized Service Centre. Your statutory warranty claims are not restricted by this warranty.

## Importer

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KOMPERNASS GMBH  
BURGSTRASSE 21  
D-44867 BOCHUM

[www.kompernass.com](http://www.kompernass.com)



Completely fill out this section and enclose it with the device!



## Projection Alarm Clock KH2198/KH2199

To guarantee a cost free repair procedure, please contact us over the Service Hotline. Ensure you have your sales slip handy.

Sender, please write clearly:

Last name

First name

Street

City/Town

Country

Telephone

Date/Signature

# Warranty

**GB** DES Ltd

Tel.: 0870/787-6177

Fax: 0870/787-6168

e-mail: support.uk@kompemass.com

**IE** Irish Connection

Tel: 00353 (0) 87 99 62 077

Fax: 00353 18398056

e-mail: support.ie@kompemass.com

[www.mysilvercrest.de](http://www.mysilvercrest.de)

**Description of fault:**

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