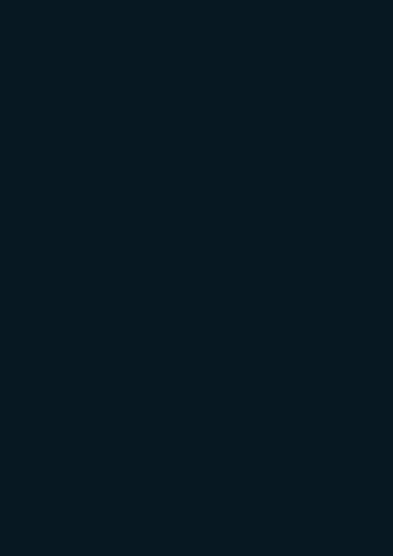


UK

KOMPERNASS GMBH · BURGSTRASSE 21 · D-44867 BOCHUM · www.kompernass.com
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@ Projection Clock with Radio KH 2217 Operating instructions





KH 2217



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

Projection Clock with Radio KH 2217

Safety instructions \triangle

- Only use the appliance in dry rooms.
- Ensure that fluids or foreign objects can never enter into the appliance.
- Do not place objects containing fluids, e.g. flower vases, on the appliance.

⚠ To avoid burns and other injuries:

 Place the appliance at a location where it will not overheat itself. Never cover the ventilation slits!

- Do not place unprotected fire sources, such as candles, on the device.
- Avoid additional heat sources, e.g. solar radiation, heaters, other appliances etc.!
- Do not allow children or persons in need of constant attention to use the appliance unsupervised. They are not always able to correctly assess the potential risks.
- When connecting the appliance to a mains power source use only the power adapter supplied with it.
- Ensure that the power adapter is easily and quickly accessible in the event of an emergency and place the cable so that it cannot be stumbled over.



- Check the state and charge condition of the inserted batteries at least once a year.
- Wear protective gloves in the event of having to remove a leaking battery.
 Battery contents can cause chemical burns. Clean the battery compartment with a dry cloth.

⚠ Electro-magnetic fields
This appliance complies
with the legal limits for
electric smog, even within
the casing!
However, if you still have
doubts about installing it
in the bedroom:

 Place the appliance about half a meter from the hed

At this distance the electromagnetic fields are no longer effective even for electrosensitive people itself.

i Note:

This appliance is equipped with non-slip rubber feet. Furniture upper surfaces comprise of various materials and are cleaned with various types of polishes and/or cleaning agents. Thus it cannot be completely excluded that some of these substances contain components that could attack the rubber pads and soften them. If necessary, place an anti-slip mat under the rubber pads of the appliance.

(i) Note:

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

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

Intended use

The equipment is intended for use as an alarm clock using a signal tone or a radio signal, and for receiving radio transmissions. All other usages of or modifications to the appliance are deemed to be improper use and may result in serious injury.

The manufacturer accepts no liability for damages that result from an improper use of the appliance or that are caused by an incorrect operation of it. The appliance is not intended for commercial use.

Items supplied

After unpacking, immediately check to determine that all listed items are present and that there are no visible damages.

- 1 Projection Clock
- 1 Power adapter
- 1 Operating instructions/ Warranty leaflet Batteries are not supplied.

Appliance overview

- ① Display
- 2 Frequency display/Time
- Frequency band display FM/AM
- 4 Alarm time display
- 6 Alarm time 2 (AL2)
- 6 Signal tone alarm call
- Info display for change of batteries
- 8 Operation with power adapter
- Buttons locked



- Number of the selected save position
- Wolume display VOL
- Radio alarm call
- Alarm time 1 (AL1)
- Sleep Timer switched on
- **(b)** Display in radio operation
- Button for sleep function (SLEEP)
- Button for saving radio station / Button lock (MEMORY KEY LOCK)
- Button for alarm time 1 / Increase volume (AL1/VOL+)
- Button for alarm time 2 / Decrease volume (AL2/VOL-)
- Button for RADIO ON/OFF
- Snooze button/Display illumination (SNOOZE/ DISPLAY DIMMER)
- Button for changing frequency band (BAND AM/FM)
- Button to seek saved radio station/Automatically save radio station (MEM SCAN/A.M.S.)

- Button for radio station search downwards (DOWN)
- Button for radio station search upwards (UP)
- Button for save position 1/6, set alarm time 1 (MEM. 1/6, AL.1 SET)
- Button for save position 2/7, set alarm time 2 (MEM. 2/7, AL.2 SET)
- Button for save position 3/8, adjust minutes (MEM. 3/8, MIN.+ SET)
- Button for save position 4/9, adjust time (MEM. 4/9, TIME SET)
- Button for save position 5/10, adjust hours (MEM. 5/10, HOUR+ SET)
- 1 Loudspeakers
- Button for projection of the time On/Off (PROJECTION ON/OFF)
- Rotatable projection lens
- Focusing slider (FOCUS)

- 7 - GB

- **5** Adjustment wheel to turn the time projection (ROTATE PROJECTION)
- Button to turn the time projection through 180° (PROJECTION REVERSE)
- Power adapter connection DC 7,5 V
- Wire aerial
- Battery compartment cover
- Reset button
- Power adapter with plug and cable
- **②** Connector plug

Technical data

Battery operation:

4 x 1,5 V Type Mignon/AA/LR6 (not supplied) for radio operation, display illumination and projection

Mains operation:

DC 7,5 V === 400 mA

Frequency range:

FM (USW): 87,5–108,5 MHz AM (MW): 522–1656 kHz

Power adapter:

Input: 230 V ~ 50 Hz

30 mA

Output: DC 7,5 V ===

400 mA, 3 VA

Preparing for use

- Remove the projection clock from the packaging.
- Place the projection clock on a level surface.
 - Position the projection clock such that the projection lens is directed onto an empty surface.

The room must be darkened for the time display to be clearly visible on a wall or ceiling.

Providing electrical power

⚠ Important:

Ensure that you have the correct polarities with the batteries and the power adapter. False polarity will damage the appliance. The appliance can be operated as follows:

- · only with batteries,
- only with the power adapter .

Inserting the batteries You require four 1,5 V batteries of the type Mignon/AA/LR6.

- Open the cover of the battery compartment on the underside.
- Insert the four batteries, ensuring their positionings comply with the polarity markings given in the battery compartment.

Make sure that the black textile strip is positioned under the batteries, this will make a battery exchange easier.

- Close the lid , until it engages.
- Exchange all four batteries when the information indicator for a battery renewal is displayed.
- Check the state and charge condition of the inserted batteries at least once a year.

i Note:

The saved radio stations will be erased if the appliance is without an electricity supply for longer than ca. 30 seconds. Provide electricity either by means of the power adapter or make sure you complete the exchange of batteries within 30 seconds.

Connecting the power adapter

Use only the power adapter supplied with the appliance.

- Insert the connector plug
 of the power adapter
 into the power adapter connection
 on the back of the appliance.
- 2. Insert the plug of the power adapter into a power socket with 230 V ~ 50 Hz.

On the display the symbol for mains power operation is indicated.

Using the clock

(i) Note:

To be able to adjust the time, the clock radio must be switched off.

Setting the time

1. Press the button **②** TIME

SET.

The time on the display **1** blinks.

i Note:

Complete the adjustments within 10 seconds. After ca. 10 seconds the appliance returns to its start setting. The adjustments completed to this point will be taken over.

The button **10** HOUR+ SET can be pressed numerous times in succession or held down firmly.

- 2. Press the button 49 HOUR+ SET to set the hours.
- As soon as the desired hour indication is shown in the display 1 release the button.

The button MIN+ SET can be pressed numerous times in succession or held down firmly.

- Press the button B
 MIN+ SET to set the minutes.
- As soon as the desired minute indication is shown in the display 1, release the button.
- Press the button TIME SET or wait a few seconds.

The programmed time will be taken over.

Selecting the 12 hour or the 24 hour modus

Press and hold the button **2** BAND for about 2 seconds.

In the display "24Hr" blinks to indicate the 24-hour mode. Within 10 seconds repeatedly press the button MIN+ SET to switch between the 12-hour mode ("12Hr" blinks) and the 24-hour mode.

Press the button **②** BAND or wait a few seconds.

The selected mode is taken over. In the 12-hour mode the indicator PM appears under the time display for the hours of the afternoon/evening.

Setting the alarm time

You can programme in two different alarm times, AL1 and AL2.

Alarm times can only be programmed with the radio switched off.

1. Press the button 4 AL1 SET.

The alarm time 4 AL1 blinks.

The button **10** HOUR+ SET can be pressed numerous times in succession or held down firmly.

- 2. Press the button **1** HOUR+SET to set the hours.
- As soon as the desired hour indication is shown in the display for alarm time AL1, release the button.

The button MIN+ SET can be pressed numerous times in succession or held down firmly.

- Press the button MIN+ SET, to set the minutes.
- As soon as the desired minute indication is shown in the display for alarm time 4 AL1, release the button.
- Press the button AL1
 SET or wait a few seconds.

 The programmed alarm time will be taken over.
- To programme in the second alarm time, repeat the steps 1 to 6.
- However, instead of pressing button AL1 SET, press the button AL2 SET.

Switching the alarm function on

i Note:

If you wish to be woken by the radio, programme in both the desired sound volume and the radio station for the alarm call in advance (see chapter "Adjusting the volume").

With each push on the buttons (3) AL1/VOL+ or (9) AL2/VOL- you switch through the available alarm options.

To switch on the alarm call with signal tone, repeatedly press the button
 AL1/VOL+ until the bell symbol
 appears in the field AL1
 on the display

The alarm time 4 is shown on the display 1.

The signal tone becomes louder the longer it sounds.

 To switch on the alarm call with radio,repeatedly press the button (B) AL1/ VOL+, until the radio symbol (D) appears in the field AL1 (B).

The alarm time 4 is shown on the display 1.

3. To switch off the alarm function, repeatedly press the button (3)
AL1/VOL+ until a symbol no longer appears in the field AL1 (3).

The alarm time 4 is nonetheless shown in the display 1, but the signal tone or radio does not sound at the programmed time.

(i) Note:

The alarm function is only active when the bell symbol or the radio symbol in the fields AL1 or AL2 are visible.

The action steps described are also valid for the button AL2/VOL-.

To switch off the alarm function to the following day To switch off the alarm sound press one of the following buttons:

- Button (B) AL1/VOL+,
- Button (2) AL2/VOL-,
- Button @ RADIO ON/OFF,
- Button SLEEP.

The switching off of the alarm sounds is confirmed by a signal tone, except with the button **(2)** RADIO ON/OFF.

Snooze function

With the button **②** SNOOZE/DISPLAY DIMMER you can interrupt the alarm function for a period of between 1 and 30 minutes, this period being programmed by yourself (see next section). The factory setting is 9 minutes.

On the expiration of this period the alarm tone or radio sounds again (Automatic after-call). The function can be repeated up to six times. After that, the alarm first sounds on the following day.

The automatic after-call allows itself to be individually adjusted to between 1 and 30 minutes. The radio is switched off and the automatic after-call is not active.

- Press and hold the button SNOOZE/DISPLAY
 DIMMER until 570 and the minute indication appears on the display.
- Press the button MIN+ SET to programme the minutes.
- As soon as the desired after-call period is displayed, release the button.
- Press the button SNOO-ZE/DISPLAY DIMMER.

The programmed after-call period is taken over.

Adjusting the display brightness

Mains power operation:

 Press the button SNOOZE/DISPLAY DIMMER at intervals of 2 seconds.

The display brightness changes itself as follows: Bright>Medium>Dark>Bright

Battery operation:

To save energy, the display illumination is deactivated in battery operation.

Press the button 40
 SNOOZE/DISPLAY DIM-MER

The display is illuminated for ca. five seconds.

Projection of the time

For the time display to be well visible on a wall or ceiling, the room must be darkened.



▲ Important:

The time display projection is created with an LED. NEVER look directly at the lightbeam. NEVER direct the lightbeam at other people or animals.

Mains power operation:

- 1. Press the button **2**PROJECTION ON/OFF.
- The projection lens **3** glows permanently.
- 2. Swivel the projection lens 3 in the desired direction.

The time is projected onto the selected position. The projection distance ranges from ca. 0,4 m to 4,0 m

 Adjust the sharpness of the projection with the slider FOCUS 49.

You can turn the projection of the time through ca. 90° with infinite variability.

4. Turn the adjustment wheel S ROTATE PRO-JECTION.

- You can turn or mirror the projection of the time through 180°.
- 5. Press the button **9** PROJECTION REVERSE.
- To switch the projection off, press the button PROJECTION ON/OFF once again.

The projection lens **3** extinguishes.

Battery operation:

 Press the button PRO-JECTION ON/OFF.

The projection lens **3** glows for ca. five seconds.

Using the radio

Switching On and Off

- Press the button

 RADIO ON/OFF to switch the radio on.
- 2. Press the button **@**RADIO ON/OFF again
 to switch the radio off.

Adjusting the volume

If you wish to adjust the volume in one sweep, hold the appropriate button down continuously. If you wish to adjust the volume in stages, repeatedly press the appropriate button in succession.

- To reduce the volume, press the button AL2/ VOL-.

Selecting a waveband

1. To select a waveband (FM/AM), press the button **29** BAND.

You can improve the reception of radio stations in the VHF (FM) frequency range.

2. Move the wire aerial slowly in various directions. When optimal reception is finally made, secure the wire aerial in this position.

For the reception of medium wave (AM) radio stations an aerial is integrated into the appliance.

 To improve AM reception, change the position of the appliance when the radio is on.

Station search

 Press briefly either the button UP or DOWN

The search starts and stops automatically when a radio station with sufficient reception strength is found.

- To continue the search, press the button UP or DOWN and keep it held down for a short period.
- To discontinue the search, press the button UP or UDOWN and keep it held down for a short period.

To make fine adjustments in the event of difficult reception conditions, proceed as follows:

Press the button UP for a short period.

The reception frequency is raised.

Press the button DOWN for a short period.
 The reception frequency is lowered.

Saving radio stations

When you have found a radio station that you would like to save:

Press the button MEMORY KEY LOCK.
 A signal tone sounds and the display of the saving positions blinks.

(i) Note:

Complete the following steps within 15 seconds. Otherwise, the appliance automatically saves the radio station to the displayed

save position. When the radio station is saved, two signal tones sound.

- 2. Press one of the five buttons **2020** MEM., to determine which saving position from 1...10 is to be used.
- (i) Note: The buttons 20 20 20 MEM. are double occupied. With each activation you alternate between the two occupancies (e.g. between 1 and 5).
- Press the button
 MEMORY KEY LOCK again.

The signal tone sounds twice and the radio station is saved.

Repeat the steps 1-3 to save further radio stations.

Selecting a saved radio station

With the five buttons **30 30 30 30 30** MEM. You can select two radio stations per waveband.

1. Press the button MEM. 1/6.

A signal tone sounds. The radio station saved on save position 1 is played.

2. Press the button MEM. 1/6 again.

A signal tone sounds. The radio station saved on save position 6 is played.

AMS function

The appliance is fitted with an automatic radio station save function. You can save ten radio stations per waveband. The radio is switched on.

 Press the button MEM SCAN/A.M.S. for ca. two seconds.

The appliance now automatically saves the radio stations with sufficient reception strength to the save positions. The AMS function ends as soon as all save positions for the respective wavelength are occupied.

Brief playback of all saved radio stations

You can briefly playback all radio stations saved to a wavelength. The radio is switched on.

1. Press the button 3 MEM SCAN/A.M.S.

The saved radio stations are each played for four seconds.

 To cancel the function, press the button SNOOZE /DISPLAY DIMMER.

Button lock

You can lock all buttons against activation.

- 1. Press the button **7**MEMORY KEY LOCK
 for ca. two seconds.
 In the display the BUTTON
 LOCK symbol **9** appears.
 The buttons are locked
 against inadvertant activation.
- To cancel the function, press the button MEMORY KEY LOCK for ca. two seconds.

The BUTTON LOCK symbol go is no longer displayed. The buttons can be activated again.

Sleep function

You can programme in a time at which the radio switches itself off. You can select a time between 15 and 90 minutes.

The radio is switched off.

- 1. Press the button **6** SLEEP. The symbol **6** SLEEP appears in the display.
- 2. Press the button **6** SLEEP for ca. two seconds.

The display SL:90 2 blinks.

Press the button SLEEP repeatedly until the desired time is shown.

With each press of the button the switch-off time is reduced by 15 minutes.

Troubleshooting

To eliminate a malfunction of the display, proceed as follows:

- Press the Reset-button
 with a pointed object,
 e.g. a ballpoint pen.
- The appliance returns to its factory settings. All adjustments made by yourself are erased

Cleaning the appliance

⚠ Important:

NEVER use benzine, solvents or cleaners that can cause damage to plastics, as they could damage the appliance!

- Keep the appliance and the ventilation openings clean at all times.
- Fluids may not, under any circumstances, penetrate into the interior of the appliance
- Never use aggressive cleaners.
- For cleaning the housing and the display use a soft and slightly moist cloth.

Disposing of the appliance



Do not dispose of the appliance in your normal domestic waste.

Dispose of the appliance 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.



Disposing of batteries!

Do not dispose of the batteries with household waste. Every consumer is legally obliged to dispose of batteries at a collection site of his community / city district or at a retail store.

This obligation is intended to ensure that batteries are disposed of in an environmentally safe fashion. Only dispose of batteries when they are fully discharged.



Dispose of packaging materials in an environmentally responsible manner

Warranty and Service

The warranty conditions and the service address can be found on the warranty card.

Importer

KOMPERNASS GMBH BURGSTRASSE 21 D-44867 BOCHUM

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