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SHARP 32BC4E HDMI High-Definition Multimedia Interface User Manual

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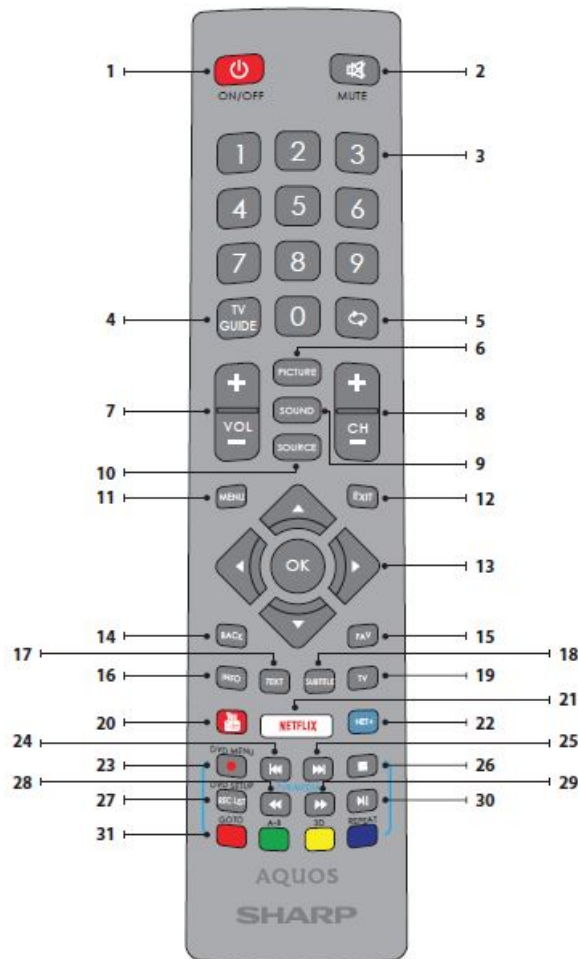- Wi-Fi CERTIFIED Miracast and Miracast are trademarks of Wi-Fi Alliance

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Remote control

1. STANDBY – Switch on TV when in standby or vice versa.
2. MUTE – Mute the sound or vice versa.
3. 0 – 9 – to select aTV channel directly.
4. TV GUIDE – Opens the 7 Day TV Guide (Digital mode).
5. To return to the previous channel viewed.
6. PICTURE – Scrolls through picture mode options.
7. VOL ▲/▼ – To increase / decrease the sound level.
8. CH ▲/▼ – To increase or decrease the channel being watched.
9. SOUND – Scrolls through sound mode options.
10. SOURCE – To display the input/source menu.
11. MENU – To display OSD menu.
12. EXIT – To exit all menus.
13. (▲/▼/◄/►/ OK) – Allows you to navigate the on-screen menus and adjust the system settings to your preference.
14. BACK – Back to previous menu.
15. FAV – To display favourites menu.
16. INFO – Press once for now/next channel information. Press twice for programme information about current programme.
17. TEXT – Teletext mode – To enter Teletext
18. SUBTITLE – To switch the dialogue at the bottom of the screen (on/ of).
19. TV – Switch to digital TV source.
20. YouTube – Displays YouTube application
21. NETFLIX – Displays NETFLIX application
22. NET+ – Displays AQUOS NET+ menu.
23. Rec1 – PVR Record
24. To restart the current chapter
25. To advance forward to the next chapter

26. To stop the playback

27. Rec List1– Opens the list of recordings.

28. To play in fast rewind mode.

29. To play in fast forward mode.

30. To play/pause

31. COLOUR BUTTONS – Additional teletext and OSD functions 1 – available only with PVR function

TV Menu navigation

To access this menu, press [MENU] button on the remote control. To enter a menu press [OK]. If you wish to make changes to any of the default settings, use the scroll (▲/▼/◄/►) buttons. To confirm any settings press [OK] button. To exit this menu at anytime, press [EXIT] button.

APPS

Contains the most commonly used apps for quick and easy access.

Netflix

World's leading Internet television network. It is ofering thousands of movies and TV shows, including original series, documentaries and feature lms. Members can play, pause and resume watching, all without commercials or commitments. You can log in to this application with your existing Netflix account. If you do not have Netflix account yet, you can register via this app or via official Netflix website.

YouTube

Video sharing app allows you to discover and watch originally-created videos.

NOTE: For Youtube app to work, it is required to have set up correct date and time in TV. For more information about setting up date/time in TV, please refer to the TIME menu chapter of this user guide. Please ensure that your network is not blocking access to YouTube and the speed of your internet connection is fast enough for viewing YouTube content

AQUOS NET+
Opens the Sharp SMART portal.

Browser
Application for accessing websites via the internet. Navigation in the browser:

- CH+ – scroll page up
- CH- – scroll page down
- Red Button – show/hide browser menu bar
- Yellow Button – Zoom in
- Blue Button – Zoom out

SETTINGS

QUICK SETTINGS

- Audio Track – Allows you to choose different
- audio language for Digital TV or media.
- Subtitle – Turn subtitles on and of
- Subtitle Track – Appears when Subtitles (above) are turned on
- and allows you to select which subtitle track is to be used
- Teletext – Turn Teletext on or of
- Record List – Shows a list of recorded TV programs via
- connected USB memory stick or USB hard drive.
- Schedule List – Allows you to view your reminders and recordings.

PICTURE

- Picture Mode – Choose from the following presets.
- Standard – Default settings
- Movie – Set to be lighter in colour and less bright.
- Game – Optimal mode for gaming. TV will turn of all picture postprocessing functions to achieve minimal input lag.
- Personal – Lets you manually alter all the settings.
- Eco – Consume 15% less energy.
- Dynamic – Recommended settings for fast moving pictures.
- Brightness – Increase or decrease the brightness of the picture.
- Contrast – Switch the balance between black and white.
- Colour – Increases the colour from black and white.

- Sharpness – Increase or decrease the sharpness of the picture.
- Tint – Lets you increase or decrease the level of tint within the picture (for NTSC signal only).
- Colour Temperature – Choose from the following presets.
- Standard – Default settings.
- Warm – Increases red within the picture.
- Cold – Increases blue within the picture.
- Personal – Personal RGB balance from „Expert Settings" menu. Suggested only for advanced users.
- Aspect Ratio – Picture format varies depending on the channel/broadcast. There are a number of different options to best meet your needs.
- Auto – Automatically displays the best picture format. So the picture is in the correct position. May have black lines at the top/bottom and/or sides.
- 4:3 – Displays the 4:3 picture in its original size. Side bars are shown to ll the 16:9 screen.
- 16:9 – Fills the screen with a regular 16:9 signal.
- Zoom 1/2 – The picture is the correct proportion but zoomed in to ll the screen.
- Dot by Dot (HDMI) – Will display the picture in its original resolution without any change.
- Full Screen – Stretch signal to ll the screen.

Expert Settings

- Noise Reduction – Filters and reduces the noise (interference) of the picture.
- Gamma – Adjust the tones between the bright and dark parts of the picture.
- Active Contrast – Automatically optimises the 'backlight' and 'contrast' of the picture according to the brightness of the screen.
- Backlight – Adjust the screen's brightness by increasing/ decreasing the panel's backlighting.
- Red – Adjust red tone of the picture
- Green – Adjust green tone of the picture
- Blue – Adjust blue tone of the picture
- CMS Hue – This is a standard to adjust the colour either more reddish or more bluish in tone.
- CMS Value – A higher value makes the image brighter. A lower value makes the image darker.
- CMS Saturation – Increases or decreases the saturation of a selected colour.

SOUND

- Sound Mode – Choose from the following presets
- Standard – Default settings
- Music – Emphasises music over voices
- Movie – Provides live and full sound for movies
- Sports – Emphasises sound for sports
- Personal – Selects your personal sound settings
- DTS Studio Sound – Allows you to turn surround sound effect ON or OFF.
- DTS DRC – Adjusts the level of dynamic range for DTS movie soundtracks. Very loud sounds get quieter and quiet parts get louder. Recommended for midnight listening. Speaker – additional settings for TV speakers or external speakers.
- Digital Output – Setttings for the digital audio output. Choose from the following options:

- Auto – Selects the best settings automatically.
- PCM – Audio stream will be processed by the TV.
- RAW – Audio stream will be processed by device connected via digital output (soundbar, AV receiver etc.).
- Digital Audio Delay – Enables the user to adjust sound setting to sync picture and audio for external speakers connected via digital audio output.
- Audio Delay (ms) – Enables the user to adjust sound setting to sync picture and audio for TV speakers. Auto Volume Level (AVL) – When 'on' is selected, the volume will stay at constant level regardless of input/source.

Expert Settings

- Balance – To switch the sound between the left and right speakers.
- Equalizer – Adjusts the volume of different sound frequencies. The equalizer sound levels can only be adjusted when the sound mode 'Personal' is selected.
- Audio Description – Additional sound track for visually impaired. Available only on selected DTV shows.
- AD Volume – to adjust volume of Audio Description sound track

CHANNEL

- DVB Antenna – Set the type of DTV signal
- Air – Terrestrial (DVB-T)
- Cable – Cable (DVB-C)
- Auto Scan – Allows you to retune the television for all digital channels, digital radio stations and analogue channels.
- Analogue Manual Tuning – Allows you to manually tune your analogue signal.
- Digital Manual Tuning – Allows you to manually tune your digital signal. Auto update channel list – if you set this option ON, channel positions, names and frequencies will be periodically updated by the provider. This may cause issues if you ordered channels in the list of channels by yourself. In such case we recommend to keep this option of .
- HbbTV – Allows the user to switch HbbTV on/of . To use HbbTV, TV must be connected to the internet and watched channel must support HbbTV service.
- LCN – Set LCN to ON if you want to arrange channels by provider preferences (only applies to DVB-T and DVB-C channels).
- CAM Setting – Pay per view services require a "smartcard" to be inserted into the TV. If you subscribe to a pay per view service the provider will issue you with a 'CAM' and a "smartcard". The CAM can then be inserted into the COMMON INTERFACE PORT (CI Card In). This menu allows you to view information and change settings of CAM. Signal Information – Information about DVB signal. Satellite Setup – This menu is only available in DVB-S2 mode. You can select the type of satellite, your transponder and your LNB type, etc.

NETWORK

- Network – Select the type of network connection
- Cable (Ethernet) or Wi-Fi (Wireless).
- OTE: For connecting to the Internet with a wired connection, connect a Cat 5/Ethernet cable (not included) from the TV to your broadband modem/router.

- Ethernet – This advises the connection status of the wired network. If [OK] is pressed, another menu opens which allows for the connection to an IPv4 or IPv6 wired network:
- Auto – Will automatically connect the TV to your home network (recommended)
- Manual – Allows you to manually change the IP, Netmask, Gateway and DNS information.
- Disable – TV will not use selected IP version for connecting to the network. Wi-Fi – This advises the connection status of the Wi Fi network. If [OK] is pressed, another menu opens which shows all Wi-Fi networks which the set can pick up. Select the one which you want to connect to and press [OK]. If the network is locked, the screen will now show a password entry screen with an on-screen keyboard. WPS – option for alternative secure connection to the Wi-Fi network.
- Push button method – select this option and press WPS button on your router.
- Generate a security PIN – TV will generate security PIN which needs to be entered into router.
- NOTE: The connection process may take a few minutes, please be patient. Every time the TV is then powered on it will automatically connect to the network, this may also take some time.
- Network Test – A network connection test
- Network Information – Information about the network settings

TIME

- Time – Shows the date and time. After pressing [OK] while this item is highlighted, the following options appear:
- Auto Sync – Automatically sets the time and date on the TV set. Requires the TV to be tuned in with a digital signal and/ or an internet connection. Turn
- "Auto Sync" of to manually adjust the time and date settings. If "Auto Sync" is set to of with the time and date manually adjusted, this information will be reset when the power to the TV is disconnected.
- Time Zone – Change your current time zone.
- Daylight Saving – option to manually turn daylight saving on/of . On Time – Allows you to set aspecific time for your TV to turn on, the channel it will then display, the source it will be on and also the volume. This function can then be toggled to repeat every day or acertain day.
- Off Time – Allows you to set aspecific time for your TV to turn of .
- Sleep Timer – Lets you set the sleep timer so the television automatically switches of after a set amount of time. Of -> 10min -> 20min -> 30min -> 60min -> 90min -> 120min -> 180min -> 240min.
- Auto standby – Adjustment for the auto standby in hourly increments: Of -> 3h -> 4h -> 5h.
  OSD Timer – Lets you adjust the amount of time the On Screen Menu stays on the screen before disappearing.

SYSTEM

- Language – Set your preferred languages.
- Menu Language – Allows you to change the language of the menu.
- Primary Audio Language – Preferred audio language on selected DVB channels.
- Secondary Audio Language – Secondary audio language in case audio in primary language is not available.
- Primary Subtitle Language – Preferred subtitles language on selected DVB channels.
- Secondary Subtitle Language – Secondary subtitles language in case subtitles in primary language are not available.

Lock

- Lock – Allows you to lock or unlock the menu. You will be asked to enter a 4 digit password. Use the ◄ button to quit the password input. Use the ► button to clear. Default password is 0000.
- Set Password – Change the default password.
- Channel lock – Lock speci c TV channels.
- Parental Guidance – Lock TV channels based on age restriction.

HDMI Settings

- Set up the HDMI functionality.
- CEC Control* – Enable/disable HDMI CEC function. This allows you to operate devices connected via HDMI with TV remote control.
- Device Auto Power Off * – If set on, all devices connected to TV via HDMI will go into standby when television turns o .
- TV Auto Power On* – Enable television turning on from standby when any connected HDMI device powers up.
- HDMI ARC – Sends audio signal via HDMI to connected audio device (AV receiver, soudbar etc.). This function is available only on HDMI 3 input.
- Detect – Shows list of devices connected via HDMI.

HDMI CEC must be supported by connected device.

- Source Rename – this allows user to manually rename items in your list of input sources. For example, you can rename inputs to the names of connected devices.
- Expert Settings
- Hearing Impaired – If signal provides support for the hearing impaired, the subtitles can be played by pressing the "Subtitle". If you set Hearing Impaired ON and switch to channel with supports for hearing impaired subtitles will be activated automatically.
- Store Mode* – switch ON/OFF shop demonstration mode available only if store mode was selected during time installation

ABOUT TV

- System Information – Shows the set name and software version.
- System Upgrade – Allows you to update your TV.
- Software Update (USB) – From time to time, we may release new firmware to improve the operation of the television (available to download). This menu lets you install the new software/firmware onto the television. Further details of how to do this will be issued with the firmware. Contact the helpline or refer to the '**www.sharpconsumer.eu**' website.

WARNING:

- Do not turn of the TV's power until the upgrade is complete!
- OAD – Switch on/of OAD (over air download) software updates (only in Digital TV).

- OAD Scan – Scan for an Over Air Download (only in Digital TV).

- Reset TV – Reset the television.

- Netflix ESN Key – Shows the Netflix ESN Key code.

- Netflix Version – Netflix software version.

- Netflix Deactivate – Deactivate Netflix on this set.

- Netflix Terminate – Delete Netflix login information on this set.

MEDIA

USB
Multimedia mode ofers the playback of various content saved on a USB Memory Stick. The content will be divided
into various types: Photo, Music and Movie.

The 'File Option' will show and allow you to play all types of support content.

- You can navigate through the menu using the scroll ▲/▼/◄/► buttons. To con rm the item you wish to

  play/view press [OK] button.

While viewing content you can control the playback modes using the remote control buttons or by bringing up the
playback navigation menu and selecting on-screen buttons ▲/▼/◄/► and [OK]

NOTE: USB extension cables are not recommended as they can cause a reduction in picture/audio quality and
stoppages during play back of USB content.

Miracast
Allows you to view content from your smart phone or tablet on the TV screen. Miracast is formed using Wi-Fi
Direct, so access to a Wi-Fi network is not needed. You can share content from your smartphone or tablet based
on Android 4.4 and newer system.

Media Server
Automatically searches for digital media servers (DMS) connected to your home network and enables the
playback and rendering of content from media servers
This function is only available on selected smartphones and notebooks.

SOURCES
From this menu, you can switch your TV input signal to different source/ connected device.

CHANNEL LIST
To activate the channel list, press the [OK] button when watching TV. This allows you to quickly select a channel
to watch – select the desired channel by using the up and down arrows or the CH +/- buttons on the remote
control. Press [OK] to watch. While in this menu the following two options can be selected: Filter Channels; press
[INFO]: This allows you to filter the channels shown in the channel list by type. Edit Channels; press [MENU]:
Entering this function allows you add channels to your favorite list, delete, move or skip channels. Use the arrow
buttons to select the option. Fav – add a channel to your favorite list by pressing [OK] when on the desired
channel. Press again to remove from favorite list. Favorites can be selected in normal Digital Television mode by
pressing the [FAV] button. Delete – Permanently delete channel. Can only be recovered by retuning. To select a
channel for deletion, press the [OK] button. Move – Move selected channel to different position. Press [OK] on
chosen channel and move selected channel with up and down arrows to desired position. Press [OK] to confirm
its new position in channel list. NOTE: To move channels, ensure in Channel menu is "LCN" and "Auto update
channel list" turned of . Skip – When in the Digital Television mode, and using the CH +/- buttons, the selected
channel will be skipped. Select a channel to be skipped by pressing the [OK] button, to deselect press the [OK]
button again.

AQUOS NET+

To access the AQUOS NET+ Menu at any time press the NET+ button on the remote control or select it from More Apps menu. NOTE: Please wait while the TV connects to the Wi-Fi network. It may take a few minutes after you switch on the TV. Navigate the menu using the scroll ▲/▼/◄/► buttons. To confirm the item you wish to play/view press [OK] button. For 'one-step' back press [Menu] button, and to access additional functions use the coloured buttons. To leave AQUOS NET+ press [EXIT] button. Home – Home screen with recommended movies and recently opened applications All Apps – Opens a list of available applications Movies – Opens a list of available movies TV Shows – Opens a list of available TV shows Music – Opens a list of available Music and Music videos Games – List of games and gaming related apps. Sport – List of sport related apps. News – List of news apps. Search – search for app by entering its name or part of the name. My apps – By adding apps to the "My Apps" list, you will be able to quickly access your favourite apps. To add an app to the list, simply highlight any app and press the green button, this will now appear in your "My apps" list. To remove an unwanted app from the "My Apps" list, you must highlight the app you want to delete and press GREEN button. Settings – In the settings menu you can change the language of the Aquos NET+ portal, set up a lter for applications specific to the language selected and reset all user settings back to the default settings.

RESET OF USER SETTINGS:

If you wish to completely reset all user settings on AQUOS NET+, you must enter the Settings menu of the portal and select "Reset your device". Please select YES with cursor and then press OK on the remote control to confirm the reset of the settings. NOTE: To meet our customers' demands, we are improving our products. As a result of our ongoing new applications will be added continuously to the AQUOS NET+. Applications and content in AQUOS NET+ can be changed without notice. Some of the functions and content may not be available in your country.

7 Day TV Guide

- TV Guide is available in Digital TV mode. It provides information about forthcoming programmes (where
  supported by the Digital channel). You
  can view the start and end time of all programmes and on all channels for the next 7 days and set reminders.
- Press [TV GUIDE]. The following 7 Day TV Guide will appear.
- Navigate through the menu using ▲/▼/◄/►.
- You can now: Press [INFO] to view further information about the programmer highlighted.
- Press [GREEN] button on a highlighted programme to set a reminder.
- Press / to view the previous/next day's list of programmes.
- Press [EXIT] to exit the 7 day TV Guide

Documents / Resources

SHARP 32BC4E HDMI High-Definition Multimedia Interface [pdf] User Manual
32BC4E, Multimedia Interface

References

- 🌐 **Patents - DTS**

- **Sharp Consumer Products Europe - Sharp Europe**

- **Sharp Consumer Products Europe - Sharp Europe**