ALLVISION

HD 2000 DS

User manual

Content

Safety instructions

Please read the manual thoroughly before operating the equipment. In case of incorrect or improper handling, the warranty becomes void.

Power supply: Before start please check the correct operation voltage of the power point. The operating voltage of this device is 12V DC, 1 A AC 100~240 V, 50/60Hz.

Overload: Do not overload a wall outlet, extension cord or adapter, neither use damaged power cord or touch it with wet hand as this may result in electric shock.

Liquid: The device shall not be exposed to dripping or splashing water, and that no objects filled with liquids, such as base, shall be placed on the apparatus.

Ventilation: Keep the slots on top of the receiver uncover to allow sufficient airflow to the unit. Do not expose the receiver to direct light or do not place it near a heater or in humid conditions. Do no stack other electronic equipments on top of the receiver.

Risk of suffocation: Do not let children play with films or other packaging components, there is a risk of suffocation.

Cleaning: Plug out the receiver from the wall outlet before cleaning. Clean the receiver by a soft cloth or mild solution of washing-up liquid (no solvents).

Location: Put the receiver indoor in order to avoid lightening, raining or sunlight.

Uncover: Do not remove the cover, to reduce the risk of electric shock. Contact qualified and licensed service personnel to repair the receiver, or contact your dealer.
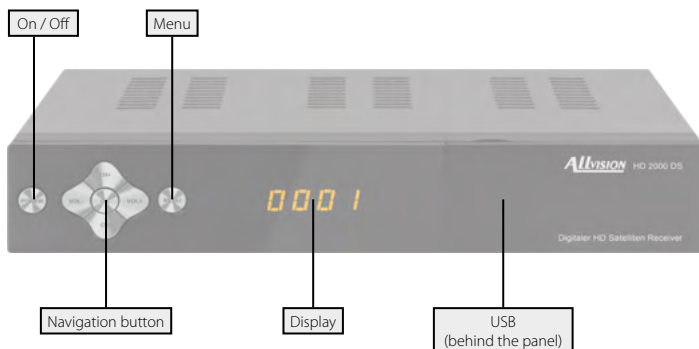
1. Referenz

1.1 General Features

- DVB-S / DVB-S2 Satellite Compliant
- DiSEqC 1.0, 1.1, 1.2, USALS
- 4-digit display
- SCPC & MCPC support receivable from C / Ku-Band Satellites LNB
- Universal, Single, Single S & C Band LNB High
- Unicable support (EN50494)
- Sensitive Tuner
- PAL / NTSC conversion
- Variable aspect ratio (4: 3, 16: 9) with Pan Vector or Letter Box
- Resolution: 576p & 576i, 720p, 1080i & 1080p
- HDMI with Upscalefunktion to improve the image quality
- Favorite lists
- Childlock
- Various sorting function for channels
- Screen display with full color resolution
- Teletext and subtitle support (OSD)
- 7 days EPG (Electronic Program Guide) for On-Screen Program information
- Multilingual menu
- Multichannel order
- USB 2.0 port (Mediaplayer)
- Digital Audio output (coaxial)
- RS232 port
- Scart AV Output
- 12/230 Volt Power supply

1.2 Delivery

- Allvision HD 2000 DS
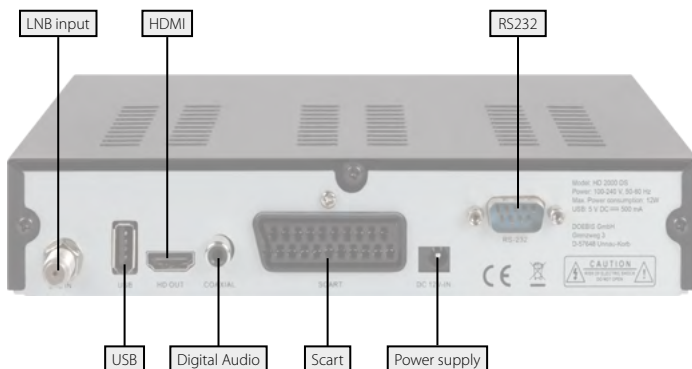- Remote control
- Batteries
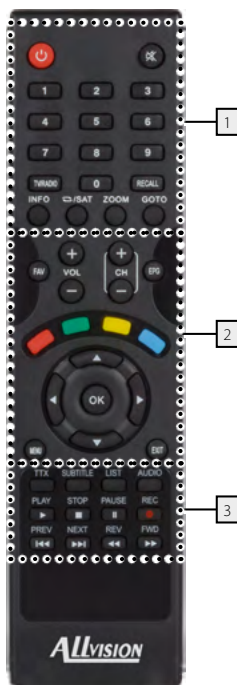- Power supply
- User manual

2. Names and key assignment

On / Off

Menu

Navigation button

Display

USB
(behind the panel)

2.2 Rear view

LNB input

HDMI

RS232

USB

Digital Audio

Scart

Power supply

2. Names and key assignment

2.4 Remote control

Zone 1

POWER Turn on/off the unit (Standby)
MUTE Muting the sound
NUMERIC KEYS (0~9) Program change / Enter numbers
TV/RADIO Switches between TV and radio reception
RECALL Changes between last and current program
INFO Displays information about the current program
REPEAT / SAT Switches between satellite TV and repeat mode
ZOOM Enlarge the image section
GOTO Function key in different sub-menus

Zone 2

FAV Displays the favorite list (if favourites available)
VOL +/- Adjust the volume
CH +/- Switches TV / radio programs (up / down)
EPG Displays the EPG (Electronic Program Guide)
RED Function key
GREEN Function key
YELLOW Function key
BLUE Function key
◄ / ► Volume control / Navigation in the menu
▲/ ▼ Change TV/Radio programs (up/down) / Navigation in the menu
OK Confirm the current selection / opening the program list
MENU Enter the main menu
EXIT Exits the current menu step by step

Zone 3

TXT Displays the teletext of the respective program
SUBTITLE Displaying subtitles (if available)
LIST Access to the recording menu (optional)
AUDIO Selection or change the audio track
PLAY Start
STOP Stop
PAUSE Pause
REC Start recording (optional)
|◄◄ / ►►| Chapter forward / backward
◄◄ / ►► Fast forward / reverse

3. Connecting the set-top box

3.1 Connecting the set-top box

1. Connect the coaxial cable to the LNB.
   (You can connect an LNB directly to the LNB IN,
   or more LNBs through a DiSEqC switch or multiswitch.

2. Connect the HDMI cable with your TV.

3. Make sure that on your TV is selected corresponding
   to the input channel (for example, HDMI 1).

4. Connect the infrared sensor and place in front of your TV.

Coaxial cable

HDMI cable
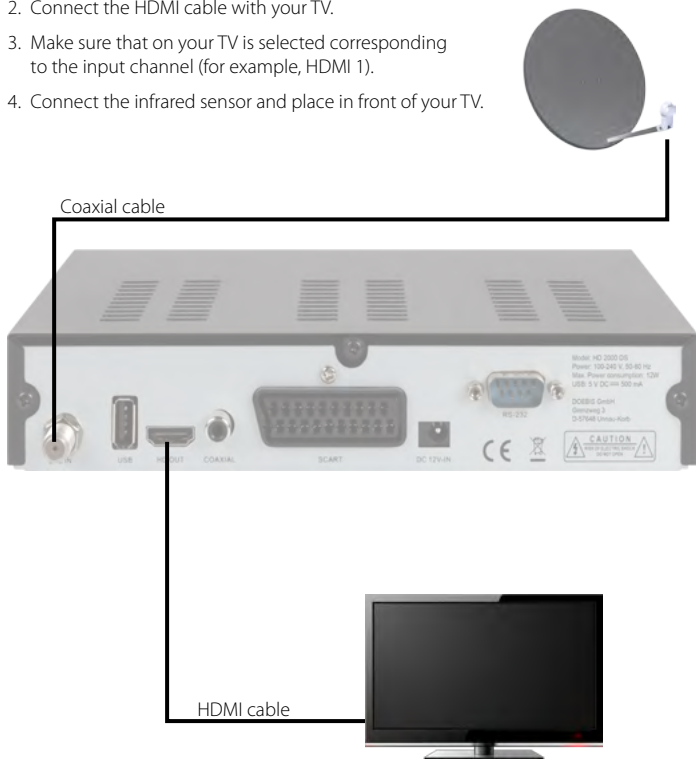
4. Main Menu

After connecting to any other required components, turn on the set-top box. Press the **MENU** button to enter the menu.

The main menu consists of:

- Channel list
- Installation
- System
- Accessories
- Media Center

> **Note:**
> The default password for the menu access is: 0000

Use the ◄ ► buttons to select a menu item and confirm with OK. So you access the submenu. If you want to exit the menu or a submenu, press the MENU button to leave the menus step by step. Press EXIT to go completely off the menu.

4.1 Channel list

Press the MENU button to enter the main menu. Go with the ◄ ► buttons to „Channel List" and press OK to confirm.

The following submenus are available:

1. TV channel list
2. Radio channel list

1. TV channel list:
Select the TV channel list and press OK to confirm. When delivered, a TV station list is already set, you can change now. The following options are listed to change:

FAV (FAV button)
Press the FAV button to add the channels to a particular favorite group. Select a channel and press OK to confirm. A window will appear in which you can add the sender to one or more groups. Choose from favorite group 1 to 8 and confirm with OK. The selection is recognized by a heart symbol. Repeat the process until all desired channels to a favorite group were assigned. Press MENU to return to the TV channel list.

4. Main Menu

LOCK (Red button)
Press the red button to activate the lock mode. Now select a channel you want to lock and press OK to confirm. You will see a password prompt. The default password is „0000". After entering the password, the channel is locked. This is recognized by a lock icon. Repeat the process for all the channels you want to lock. From now on, you always enter the password when you switch to the channel. You can change the password in the MENU under System -> Child lock. Press MENU to return to the TV channel list.

SKIP (Green button)
Press the green button to activate the skip mode. Now select a channel you want to skip and press OK to confirm. This is recognized by a arrow icon. In future, the selected channel will be skipped when scroll in the channel list. Press MENU to return to the TV channel list.

MOVE (Yellow button)
Press the yellow button to activate the Move mode. Now select one or more channels that you want to move. This is recognized by a double arrow icon. Then proceed with the ▲▼ buttons to the desired position in the channel list. By pressing the yellow button again, the previously selected channels are moved to this position. Repeat the process with all the channels that you want to move. Press MENU to return to the TV channel list.

MORE (Blue button)
Press the blue button to make further settings.

Red button: To sort the channel e.g. A-Z, Z-A, free, Encrypted, ...
Green button: To rename a channel. With the colored buttons on the remote control, various functions are available.
Blue button: To delete channels. Select with OK all the channels that you want to delete from the list. This is indicated by an X icon. To delete the channel press exit. You will see a message box if you want to delete. YES to delete, NO to cancel.

2. Radio channel list:
The radio program list, you can edit in the same way as the TV program list.

4. Main Menu

Press the MENU button to enter the main menu. Go with the ◀ ▶ buttons to „Installation" and confirm with OK.

The following submenus are available:

1. Satellit
2. Transponder

1. Satellit:
This menu will lists all available satellites. Use the ▲▼ buttons to select one or more satellites which you want to receive with the set-top box and confirm with OK. The selection is marked with a hook symbol.

To make various settings of a satellite, select the desired satellite and press the ▶ key to enter the right setting window.

LNB:
Here you can set the LNB type according to your satellite system. The default setting (Universal) is correct in most cases. If you select unicable as LNB type, please follow the settings on page 12.

DiSEqC 1.0 / DiSEqC 1.1
If the antenna is operated with a DiSEqC switch, here you can configure the DiSEqC input of the selected satellite.

22KHz
In case you are using two antennas connected to a 22KHz tone switch box. You can supply either 22KHz by setting "OFF" to select antenna.

Polarization
The polarization switches at Universal LNBs between the vertical and horizontal plane. The default setting (Auto) is correct in most cases.

Motor settings
If you operate your satellite dish with a motor, you can also choose between USALS, DiSEqC 1.3 or None.

4. Main Menu

In USALS or DiSEqC 1.3 appear at the bottom of the screen additional settings. Take advantage of this, the corresponding colored button to access the detailed engine settings.

USALS settings
Set Limit (red button):
Choose between „limitation of", „west border" and „east border".

Limitation of
The dish has no fixed limit to stop at some point.

West border
Press the ◀ ▶ buttons to rotate the dish to east or west.
Press as long as the desired position of the west limit is reached.
Then save the settings.

East border
Press the ◀ ▶ buttons to rotate the dish to east or west.
Press as long as the desired position of the east limit is reached.
Then save the settings.

Go to X
Press OK to enter the 0 ° base.

Set Limit (green button):
Please enter the latitude and longitude of each satellite.

DiSEqC 1.2 settings
Set Limit (red button):
see USALS settings

Delete all (green button):
Deletes all the satellite positions of the engine.

4. Main Menu

Unicable System
Under the menu item LNB type, you can make the settings for single-cable (unicable). The set-top box is programmable for different unicable systems. Depending on the system can be connected to a system of up to 8 set-to boxes.

Megasat, Kathrein, Technisat and identical devices use the following frequencies:
IF Channel: 1=1284; 2=1400; 3=1516; 4=1632; 5=1748; 6=1864; 7=1980; 8=2096

Inverto and identical systems use the following frequencies:
IF Channel: 1=1076; 2=1178; 3=1280; 4=1382; 5=1484; 6=1586; 7=1688; 8=1790

Under IF Channel You can select up to 8 different frequencies, while each IF channel is automatically assigned a frequency. Note that each frequency may be present only once in your system. The frequencies depend on your cable system and must not be changed arbitrarily. For systems that does not match the pre-programmed frequencies which can under these Adjust the main point frequency.

> **Note:**
> Basically, one uses the lowest frequency for the longest cable path to the set-top box.

Add satellite:
Press the red button to add a satellite. A window appears, enter a name and the longitude. With the colored buttons on the remote control, various functions are available.

Change satellite:
With the green button you can change a satellite. A window will appear where you can change the name and the longitude. With the colored buttons on the remote control, various functions are available.

Delete satellite:
With the yellow button you can delete a satellite.

4. Main Menu

Program search:
With the blue button you can scan a satellite for programs. Here you can choose between single satellite search and multi-satellite search.

Single Satellite Search

Satellit:	Select the desired satellite (eg Astra 19.2° East).
Only free:	Choose whether only free to air or all encrypted channels are to be searched.
Program search:	Choose between TV or radio programs
Network Search:	Select YES to look for transponders on satellites that are not contained in the transponder table. (The network search is only active when „Full Scan" is selected in the search mode.
Search mode:	Wählen Sie zwischen Blind Scan und Full Scan. Im regulären Betrieb reicht der Full Scan Modus völlig aus.
Search:	Starten Sie den Suchvorgang

Multi satellite search:
Here are all marked satellites can be searched simultaneously.
The search settings above can also be applied here.

Transponder:
Press the GOTO button on the remote control to add or edit a transponder. The list shows all available transponders of each satellite are listed. From time to time new transponder will be added or changed by satellite operators.

With the colored buttons on the remote control, various functions are available. The procedure is the (add, modify, or delete) the same as in the satellite.

2. Transponder:
In this menu will take you directly to the transponder list.

4. Main Menu

4.3 System

In this menu item basic settings can be made.
The following submenus are available:

1. Language
2. AV Setting
3. Local Time Settings
4. Timer Setting
5. Childlock
6. OSD Setting
7. Favorites list
8. Other

1. Language
Set here the main language of the menu. Furthermore, the language of the first and second audio channel and subtitle language and teletext can be adjusted. With the ◄ ► buttons, the language can be selected. Save with MENU button and exit the submenu.

2. AV Setting
TV setting:	Select your TV system (Auto, PAL or NTSC)
Video resolution:	Select the resolution of the set-top box (576i to 1080p)
Format:	Select the screen size (Auto, 4:3 LB, 4:3 PS, 16:9)
Video effect:	Select the sharpness of the image (sharp, normal or soft)
Audio output:	Select the audio output (LPCM, BS)
AV output:	Select the format for the AV output (CVBS or RGB)

3. Local Time Settings
The default time is set to automatic, but it can also be entered manually. Select the time zone of your country and you will get the current time based on TDT (Time and Data Table) in the stream of the current program. Furthermore, to be activated or deactivated the summer time.

4. Main Menu

4. Timer Settings
Here you can set one or more timers to start to determine the time your selected program. The set-top box will automatically switch to the selected time on this channel. Select e.g. the first timerplace and confirm with OK. This will open a new window to adjust the data. Select how often the timer is repeated (eg. once, daily, ...), with which program it will turn on and when the start and end times.

5. Childlock
You can assign a password in different menu items or channels, to prevent children from changing the settings, or do not want to see programs.
The default password is „0000" and can be arbitrarily changed here.

6. OSD setting
With the ◀ ▶ keys you can change according to each point on your needs. It can be set as follows:
Subtitle: On or Off
OSD time: Menu display time (3-10 sec.)
OSD transparency: Menu transparency

7. Favorite list
Here you will find a list of favorites that you can create in the channel list setting. The bookmark name can be changed arbitrarily. Access a list with the OK button and change the name using the color and number buttons on the remote control.

8. Other
Sound signal: On or Off
LNB voltage: Enable or disable the LNB voltage

4. Main Menu

4.4 Accesories

In this menu you will find more useful settings.
The following submenus are available:

1. Information
2. Factory setting
3. Delete all
4. Upgrade via RS232
5. USB upgrade
6. USB backup
7. Games

1. Information
Show information about the software and hardware version of the set-top box.

2. Factory setting
With this feature you can set the set-top box to the delivery state. The first step is to enter a password to enter the submenu. The default password is „0000". Note: All data you have set will be lost!

3. Delete all
This function is all what you have set for additional data (eg added or changed transponder) deleted. The first step is to enter a password to enter the submenu. The default password is „0000". Note: All data that you have entered will be lost!

4. Upgrade via RS232
Connect with a suitable RS232 cable the set-top box to the PC or notebook. Start the program on the computer to upgrade a new firmware on the set-top box. The upgrade program, as well as future firmware updates can be download on our website.

5. Upgrade via USB
Copy the appropriate firmware on a USB stick and plug it into the USB jack on the set-top box. In the „Upgrade Mode" you can choose between ALL, only the program list or only the main code should be updated. Please select on „Upgrade File" the new firmware. Start the upgrade process with „Start". After the operation, the set-top box starts if necessary.

4. Main Menu

6. USB backup
Here you can store your created program list on a USB Stick and restore them at a later date if necessary.

7. Games
Here are some classic games for your pleasure.

4.5 Media Center

In this menu you can manage your USB device and play back the data stored on it. The following sub-menus are available:

Note:
This menu is only active when a USB device is connected to the set-top box.

1. Music
2. Pictures
3. Videos
4. HDD information
5. Formatting
6. Jump

1. Music
On the left side of the screen you will see the contents of your USB storage device. Navigate with the ▲▼ buttons to select a folder in which you saved songs. Press the OK button to enter the folder.

<u>Title playback:</u>
Select a title with the ▲▼ buttons and start playback by pressing OK. You can control the playback mode by pressing the „BLUE" button on the remote control. Choose between the following playback modes:

• Play the selected track 1x
• Repeat the selected track continuously
• Play all tracks randomly

The respective playback mode is indicated by the icon to the right of the playback bar.

4. Main Menu

Sort tracks:
You can sort all tracks in the playlist by pressing the „RED" button. Select between „Name A-Z", „Name Z-A" or the original arrangement (default).

Create a playlist:
Select a track from the playback with ▲▼ buttons. Press the „FAV" button on the remote control to highlight the title as favorite. If you have selected all the titles as a favorite, you can enter the playlist with the „YELLOW" button. Title can be deleted from the playlist by pressing the „YELLOW" button. Highlight the title you want to remove and leave the playlist with EXIT. Do you want to delete the entire playlist, press the „GREEN" button to select all tracks. Then exit the playlist with EXIT.

2. Pictures
On the left side of the screen you will see the contents of your USB storage device. Navigate with the ▲▼ buttons to select a folder in which you saved images. Then press the OK button to access the folder.

Start slideshow:
Select an image with the ▲▼ buttons and start playback by pressing OK. You can change the slideshow settings by pressing the „BLUE" button (Setup) on the remote control. Choose between the following options:

- Slideshow time: OFF, 1-9 sec. (Period until the next image)
- Slideshow repeat: ON or OFF

Note: If you set the slideshow time to OFF, only the selected image is displayed. You can now play all the images manually with ◄ ► buttons. With the ▲▼ buttons, the image can be rotated by 90 °.

Sort pictures:
You can sort all pictures in the playlist by pressing the „RED" button. Select between „Name A-Z", „Name Z-A" or the original arrangement (default).

4. Main Menu

3. Videos

On the left side of the screen you will see the contents of your USB storage device. Navigate with the ▲▼ buttons to select a folder in which you saved videos. Then press the OK button to access the folder.

Select a video with the ▲▼ buttons and start playback by pressing OK. Playback look in advance in the small preview window. Press the „YELLOW" button to play the video in full screen mode.

4. HDD Information

Here you can see all the important information about the inserted USB drive.

5. Formatting

You can format the inserted USB drive. ATTENTION: All files they reside on the USB drive will be deleted irrevocably!

6. Jump

Here you can set how fast the video is to be forwarded or rewound if you press the ◄◄ / ►► keys. Choose between 5, 10, 30, 60 or 300 seconds.

> **Note:**
> A general control such as e.g. start, stop, fast forward or rewind you can control via the upper keypad on the remote control.

5. Additional Information

5.1 Troubleshooting

You might meet abnormal working of this STB with various reasons. Check the following which may help you.

Problem	Possible causes	What to do
The LED does not light up	Power cable is not connected	Check that the power cable is connected properly.
No picture or sound.	The dish is not properly aligned with the satellite and therefore receives a weak or no signal. The LNB or the coaxial cable is defective. You're not on the right channel. (AV or HDMI)	Adjust the dish. Check the signal strength indicator in one of the channels search submenus. Check the cable connections, LNB and other equipment connected to LNB & receiver, or adjust dish. Replace the LNB. Replace the cable.
Bad picture/blocking error	Satellite dish is not aiming to the satellite accurately. Signal too strong. Satellite dish is too small. LNB noise factor too high. The LNB is faulty.	Adjust the dish. Connect an attenuator to LNB input. Change to a larger dish. Change LNB with lower noise factor. Replace the LNB.
No startup menu on screen after turning on STB for the first time.	The system is connected by HDMI cable and the TV is not in HDMI mode.	Switch the TV to the appropriate HDMI input.
The remote control is not working.	Battery exhausted. Remote control is not aimed correctly STB is in standby mode.	Change the batteries (both). Aim the remote control at the STB. Check that nothing blocks the front panel. Check if LED indicator on the front panel is showing the time, press the power button to switch off standby mode.
You have forgotten your password.		Contact the dealer or Service Provider. They will help you set it up again.

5. Additional Information

5.2 Specifications

Tuner & Demodulator	
Frequency range	950 MHz to 2150 MHz
Input connector	F-Type, IEC 169-24, female
Signal level	-25 bis -65 dBm
RF impedance	75 Ω, unbalanced
IF bandwidth	55 MHz / 8 Hz (per 5 Msps)
LNB Power and polarization	Vertical : +13V, 14V +/-5 % Horizontal : +18V, 19V +/-5 %: max. 500 mA overload protection
LNB tone wwitch	22 KHz +/- 2 KHz, 0.6 V +/- 0.2 V
DiSEqC control	Version 1.0/1.2 compatible, Tone Burst A/B
Demodulation	QPSK / 8PSK
Symbol rate	1~45 Ms/s / SCPC, MCPC
FEC Decode	1/2, 2/3, 3/4, 5/6 and 7/8 with constraint Length K=7
MPEG	
Transport stream	MPEG-4/H.264, MPEG-2 ISO/IEC 13818
Profile level	MPEG-4/AVC, MPEG-2 MP@ML, MP@HL
Input rate	max. 15 Mbit/s
Image ratio	4:3, 16:9
Video resolution	720 x 576, 720 x 480, 1280 x 720, 1920 x 1080
Audio decoding	MPEG / MusiCam Layer I & II
Audio mode	Single channel / Dual channel / Joint Stereo / Stereo
Sampling	32, 44.1 and 48 KHz
A/V and Data In/Out connector	
LNB IF input	F type, IEC 169-24 female
Audio output	S/PDIF coaxial
Power supply	
Input	100 - 240 V AC, 50/60 Hz,
Consumption in operation	max. 12 W
Consumption in standby	< 1,0 W with Display (Standby)
Protection	Separate internal fuse. Input has a lightning protection.
Physical specifications	
Weight (net)	ca. 404 g
Operating	0°C to +40°C
Storage temperature	-40°C - to +65°C

Note:
Weight and dimensions are not absolutely exact values.
Technical details are subject to change at any time without prior notice.

5. Additional Information

5.3 Declaration of Conformity

Hereby declare the company DOEBIS GmbH that the following devices is in compliance with the essential requirements and other relevant provisions of Directive Council 2014/30/EU and 2014/35/EU:

Allvision HD 2000 DS

The Declaration of Conformity for these products is located the company:

DOEBIS GmbH
Grenzweg 3
57648 Unnau-Korb

Notes