

HORSE DENTAL  
EQUIPMENT

# EQUINE DENTALSCOPE

## INSTRUCTION MANUAL



HORSE DENTAL EQUIPMENT

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## CHAPTER 1: SAFETY INSTRUCTIONS



**WARNING.** Read safety warnings and instructions. Failure to follow safety warnings and instructions of use may result to electric shock, fire, and/or serious injury for the user.

HDE declines all responsibility in the event of damage resulting from improper use or non-compliance with these safety instructions.

## CHAPTER 2: TECHNICAL FEATURES

<p><b>General features</b></p> <p>Box Overall Dimensions</p> <p>Length of the DentalScope</p> <p>Dimensions of the head</p> <p>Main tube + head</p> <p>Handle</p> <p>Weight</p>	<p>850 x 135 x 80 mm</p> <p>692 mm</p> <p>Width 17mm x Thickness 17,2 mm, round shape on top</p> <p>Stainless steel, Ø12 mm, length 482 mm</p> <p>Plastic POM, Ø12 mm, Length 210 mm</p> <p>0,360 kg</p>
<p><b>Camera</b></p> <p>Camera type</p> <p>Video Resolution</p> <p>Video System</p> <p>Optics</p> <p>Viewing Angle</p>	<p>CMOS</p> <p>704 x 576 pixel</p> <p>PAL</p> <p>4 glass lenses</p> <p>70°</p>
<p><b>LED lighting</b></p> <p>LED colour temperature</p>	<p>5.000° K</p>

<p><b>Video transmission</b></p> <p>Wireless Technology</p> <p>Wire technology</p>	<p>Radio Frequency signal 5,86 GHz, integrated transmitter inside the handle (RF receiver required)</p> <p>AV connection, cable supplied, length 1,5 mm</p>
<p><b>Battery and Charger</b></p> <p>Battery</p> <p>Battery Protection</p> <p>Charger In</p> <p>Charger Out</p> <p>Time required to charge the battery</p>	<p>Lithium-Ion Polymer, Rechargeable single cell</p> <p>3,7 Volts 600 mAh</p> <p>100-230 V AC 50/60 Hz 0,4 A</p> <p>5 V DC 2,0 A</p> <p>3 hours</p>
<p><b>Autonomy</b></p>	<p>1 hour with full battery charge</p>

All the above characteristics are given for information purposes only. They are in no way contractual and may be modified for improvement purposes without prior notice.

## Product description - Basic set

- 1- Dentscope
- 2- Charger
- 3- Video Cable, length 1.5 meter

- 4 - Storage and transportation case - rigid plastic with protective foam



### Easy to use: **Plug and play system**

Setup sequence:

- Connect cable with dedicated plug at the rear of the DentalScope
- Connect the other side of the cable (AV plug) on a screen equipped with AV-Video plug
- Press the green button on the DentalScope,
- Then watch in live streaming.

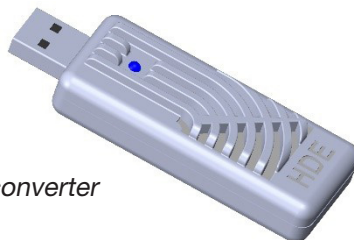
### Available options for monitoring

#### Option 1: Monitoring on Smartphone, Tablet and Computer

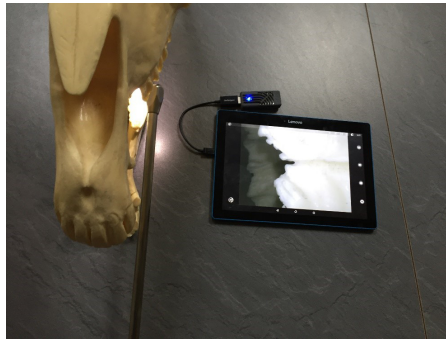
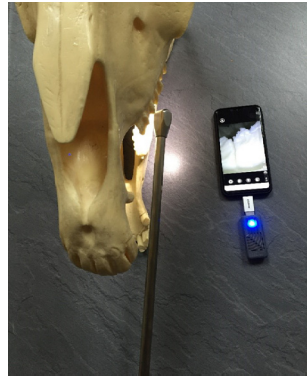
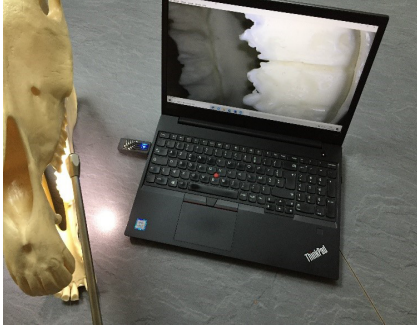
Plug the RF converter on the USB socket of the computer, smartphone or tablet, install a DVR Software (HDE recommends OTG software) on the device and watch in live streaming.

Using the software enables to take pictures and record videos.

Only available with PC Win 7, Win 10, or Android Tablet. Not available with MAC nor iOS Tablet or Smartphone.



*RF converter*



## Option 2: Monitoring an external monitor

10" DVR Viewing Monitor recording on SD-CARD (video + picture)



5 - 10" Monitor  
6 - Monitor charger  
7 - Storage and transportation case - rigid plastic with protective foam

## CHAPTER 3: DELIVERY CONDITIONS - FIRST USE

### 3.1 Battery

The battery is delivered with almost 30% of charge. Fully charge the battery before the first use by inserting the charger cable into the rear side of the scope, and plug the charger into the electrical socket.

### 3.2 Computer setup

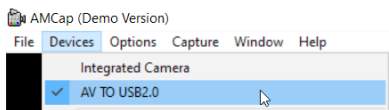
First you need to install a monitoring software.  
Several free softwares are available on the internet.  
HDE recommends AMCAP or OTG View. HDE supplies AMCAP for free.

Connect the USB converter directly into the computer's USB socket.

An auto-instal process starts, it creates an interface "AV TO USB2.0"



Starts AMCap software, select "Devices" => "AV TO USB2.0"



The DentalScope requires no setup, the converter is already connected to the right frequency with the DentalScope.



### 3.3 Android Tablet or Smartphone setup

First you need to install a monitoring software.  
Go to PlayStore, or GooglePlay, and install OTG View – free software recommended.

Connect the USB-converter to your device (Computer, Tablet or Smartphone). Choose the adaptor which fits to your USB connexion (USB-C or Micro-USB)

There is no further setup required, the USB converter is paired directly by radiofrequency to the DentalScope.

### 3.4 Monitor setup

Please refer to the Annex "Monitor Setup" to pair the monitor with the DentalScope.

## CHAPTER 4: STANDARD USE

### 4.1 With the AV-cable

- √ Connect both sides of the AV-cable:
  - Small-pin side connected to the rear of the DentalScope,
  - Large-pin side connected to the screen.
- √ Press the green button on the DentalScope,  
**And start working!**

### 4.2 With the USB converter

- √ Connect the USB converter to your device (Computer, Tablet or Smartphone),
- √ Start the visualization software,
- √ Press the green button on the scope  
**And start working!**

### 4.3 With the Monitor

- √ Turn on the monitor, and choose the right mode (DVR or RF),
- √ Press the green button on the scope,  
**And start working!**

### 4.4 Precautions for use



The USB converter is an element which dissipates a lot of heat.  
Do not keep your hand in contact with this device.

The USB converter is not waterproof, it must be protected against splashing water. Do not use force to insert the USB adapters, the USB converter, or the video cable, check the direction of insertion.

### 4.5 Battery charge status

Battery charge status is integrated and indicated by the LED located at the base of the handle, next to the main charging connectors.

Press the green button: the LED lights RED during 2 seconds, then:

- √ If the LED turns to continuous GREEN: charge status is OK,
- √ If the LED is flashing GREEN: the battery must be recharged,
- √ If the LED turns to continuous RED: the battery is discharged.

The DentalScope **cannot be used if it is discharged**, even with the power cord.

### 4.6 Camera lens

The camera is not equipped with an anti-fog system on the lens. If mist appears, briefly immerse the camera head / lens in a bucket of clean water. The head is completely waterproof.



## CHAPTER 5: MAINTENANCE, CLEANING AND STORAGE

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### 5.1 Routine maintenance

The equipment does not require any routine maintenance.

### 5.2 Cleaning

At the end of each working day, clean the DentalScope with clean water. Do not use any concentrated detergent, thinner, acetone, acid or basic. Wipe clean and dry with a microfiber cloth, before storing in the transport box.



Do not immerse the lower part of the handle, the connectors are not waterproof.

Do not immerse the converter.

### 5.3 Other maintenance requirement

FOR ANY PROBLEM, CONTACT YOUR HDE TECHNICAL CENTER

## CHAPTER 6: WARRANTY

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Refer to the HDE General Sales Terms.

The warranty covers normal use of the equipment, and does not cover the following damages:

- Damage due to abnormal wear,
- Damage due to improper use,
- Damage due to lack of maintenance,
- Equipment dismantled without authorization from HDE or one of its Technical Centers,
- External factors to the equipment.

## ANNEX: MONITOR SETUP



The monitor is equipped with several modes. Only 2 modes are useful for the DentalScope:

- RF Mode: dedicated for direct visualization
- DVR Mode: dedicated for visualization + screenshot + video capture.

To choose the mode:

- ✓ Press «SOURCE/EXIT» to scroll down to the dedicated mode,
- ✓ Press «CH/+» to validate,

Frequency setup – to pair with the DentalScope:

- ✓ Turn on the DentalScope by pressing the green button on the handle,
- ✓ Band setup:
  - Press 1 time on «+/CH»
  - Press on «-/BAND» and scroll down until Band A
- ✓ Channel setup:
  - Press on «+/CH» and scroll down until Chanel 1: 5865 MHz
  - Remark: by pressing a long time on «+/CH» the device automatically launches a scanning procedure to detect the channel of the DentalScope.

### Monitor Recording - Taking pictures and/or videos

Slide the microSD card into the socket

- ✓ Choose DVR mode,
- ✓ Turn on the DentalScope, image appears.
- ✓ To take a picture: press on «SC SHOT», it is done!
- ✓ To take a video:
  - Press 1 time on «REC/OK» to start recording,
  - Press a second time on «REC/OK» to stop recording.

To view what has been recorded:

- ✓ Press «MODE»
- ✓ With keys «UP» and «DOWN» scroll pictures and videos recorded on the MicroSD card
- ✓ Press «REC/OK» to start playing the video.
- ✓ Caution: with «MENU» you can delete the recordings.

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