

IDAL^{3G}
TWIN

USER MANUAL



Table of contents

- 1. About this document4
- 2. Transport and storage.....4
- 3. General safety advice for operating and cleaning4
- 4. General description and information6
 - 4.1 Purpose of the IDAL device.....6
 - 4.2 Contents of the packaging.....6
 - 4.3 Operating requirements.....6
 - 4.4 Target species.....6
 - 4.5 Working mechanism.....7
- 5. Operating and cleaning.....11
 - 5.1 Preparing the IDAL device for vaccination11
 - 5.2 Vaccination.....12
 - 5.3 The shot counters.....13
 - 5.4 Stand-by and switching off15
 - 5.5 Cleaning instructions15
- 6. Maintenance and repair17
 - 6.1 Nozzles service17
 - 6.2 Factory service20
- 7. Dismantling21
- 8. The battery and the charger.....22
- 9. Troubleshooting24
- 10. Technical Specifications25
- 11. Disposal26
- 12. EC declaration27

Original User Instruction

This user manual is part of the **IDAL 3G** and an important part of the security concept.



- Read the user instruction carefully and follow the instructions -

1. About this document

In this user manual, you will see warning signs (icon on the right), informing you of a risk of injury or material damage. Always read and observe these warnings!



2. Transport and storage

Check the IDAL device before use for any damage.
Protect the product against damage during transport.
Transport and/or store the IDAL device in its original packaging.
Store the IDAL device away from sunlight.
Do not store the batteries at temperatures below 5°C (40° F).
Never store the IDAL device when wet or humid (e.g. directly after cleaning).

3. General safety advice for operating and cleaning

-  Direct contact between the vaccine and/or rinsing fluid and the eyes and/or respiratory tract of the operator can be harmful. In these cases, seek immediate medical advice and show the vaccines product information.
-  Use the IDAL device for vaccinating pigs **only**.
-  Keep children out of the vaccination area.
-  Do **not** point the IDAL device towards any part of your body or towards other people! In case of accidental injection of vaccine and/or rinsing fluid, seek immediate medical advice and show the vaccine information sheet.
-  Beware of the needles in the holder. They may contain residues of the vaccine and/or rinsing fluid. In case of a needle wound, seek immediate medical advice and show the vaccine information sheet.
-  Do **not** operate the safety cylinder around the injection heads with your hand when starting, vaccinating or cleaning.
-  If the safety cylinders are pressed when fingers or other body parts are in front of the injection heads, there is a danger of accidental self-injection with vaccine or rinsing fluid. Seek immediate medical advice and show the vaccine information sheet.
-  Wear safety goggles and a mask when using the IDAL device. Ensure goggles are clean for optimal vision.
-  Wear rubber gloves when cleaning the IDAL device.
-  Do not throw the battery into water. Protect the battery from water and humidity. It may leak and release hazardous substances.
-  Do not throw the battery into fire. It may explode and/or release hazardous substances.
-  Do not expose the battery to temperatures higher than 60°C. It may explode and/or release hazardous substances.

-  Only veterinary practitioners or operators instructed by a veterinary practitioner are permitted to work with the IDAL device and vaccines.
-  Only use approved vaccines and rinsing fluid prescribed by MSD Animal Health.
-  Do not operate the IDAL 3G Twin Device as a Mono Injector. Always use two vaccine vials or two rinsing fluid vials at the same time.
-  The use of not approved vaccines, hormones, antibiotics or overdosage of the approved vaccine can lead to adverse health effects of the animals or subsequently of humans.
-  Fitting vials into the holder can cause excess pressure inside the vials. The excess liquid is released via an overflow hose and can appear at the base in front of the handle. Remove this liquid with a soft clean cloth. To prevent leakage, pierce the vials prior to mounting with a sterile needle to reduce the pressure and hold the IDAL Device upside down when placing new vials.
-  Releasing the trigger of the IDAL device will immediately switch off all controls, making it impossible to give an injection.
-  When expelling vaccine or rinsing fluid from the device, always position the injection nozzles on a cloth in a receptacle placed on a firm base. Never inject into the air.
-  If the safety cylinders remain jammed around the injection nozzles after firing, immediately release the trigger of the IDAL device and contact your supplier.
-  Operating the IDAL device for a longer period of time may induce cramps in the operator's hands. Regular breaks are recommended.

4. General description and information

4.1 Purpose of the IDAL device

The IDAL device is used for the needle-free intra-dermal vaccination of pigs (IDAL = Intra **D**ermal **A**pplication of **L**iquids). Intra-dermal means "into the skin". Vaccines given with the IDAL must be approved for intra-dermal administration by MSD Animal Health.

4.2 Contents of the packaging

IDAL 3G TWIN Device	Battery Charger	2 Batteries	Rinsing Fluid (2 Vials)
			

Note: Before using the IDAL device for the first time, charge the batteries in the battery charger. Please read chapter 8 how to optimize the lifetime and durability of the batteries.

4.3 Operating requirements

The IDAL device may only be operated by veterinary practitioners or by individuals who have been instructed by veterinary practitioners.

4.4 Target species



The IDAL device should **only be used for vaccinating pigs**. It should not be used in other species. The functionality of the IDAL device should only be tested on surfaces mentioned in this user manual (e.g. a sponge or a thick cloth in a receptacle).

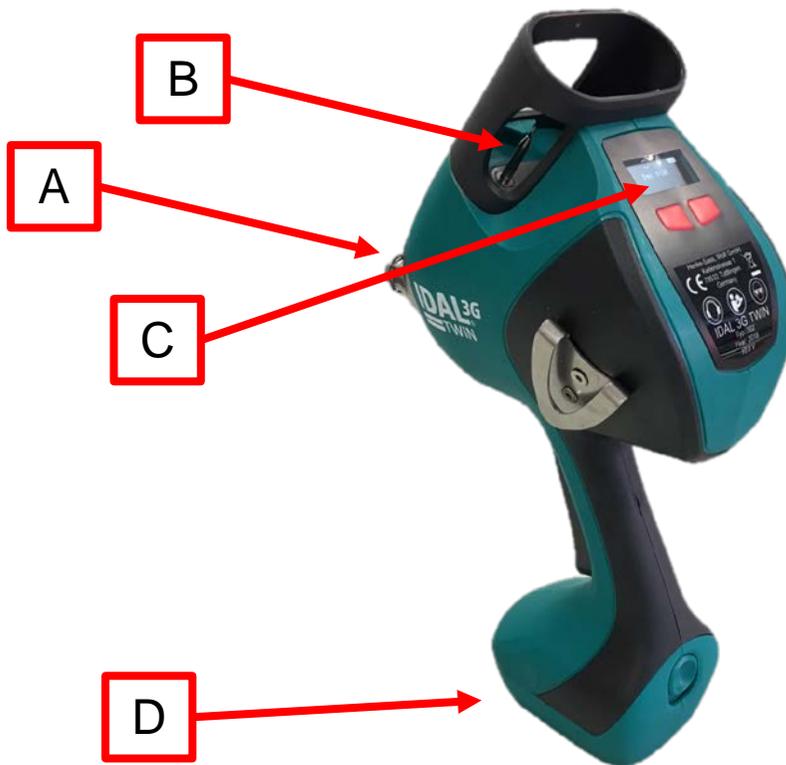
4.5 Working mechanism

The IDAL Device has a bottle holder equipped with needles (B), in which vials can be mounted. Vaccination takes place through the injection heads or nozzles (A). The injection heads are fitted with mechanical safety cylinders.

A day counter, bottle counter and a service counter are integrated in the IDAL Device. The screen is operated by the two buttons underneath the display screen (C).

The IDAL device comes with two batteries and a battery charger. Before use, insert a charged battery into the base of the IDAL device (D).

Two vials of vaccine are inserted inside the bottle holder of the IDAL device. The IDAL device is activated by pressing the trigger. This will start up the pump and vaccine is automatically drawn out of the vials. The rinsing fluid, which is present inside the tube during storage, is pumped out of the tubes via the injection heads.



4.6 The User Menu



When the battery is inserted, the MSD Animal Health logo is shown on the display, followed by the firmware revision and the serial number. This information is shown for 2 sec.



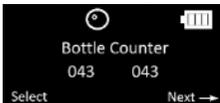
If the battery is too low, the display will show “Batt Off” or “Charge battery info”.



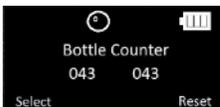
The initial display will show the current status regarding position sensor (on/ off), Day Counter and battery.



Press ‘Menu’ to show the **Day Counter**. To reset the Day Counter, press “Reset” for at least 3 seconds.



Press ‘Next’ to show the **Bottle Counter**. The number of shots given with both bottles are shown.



To reset values, press “Select”. The left bottle counter is flashing. Set to zero by pressing “Reset” for approx. 3 seconds. To reset the right bottle counter, press “Select” again. The right bottle counter is flashing. Set to zero by pressing “Reset” for approx. 3 seconds.



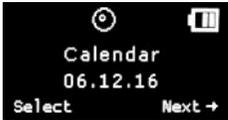
Press ‘Next’ again to show the **Service Counter**. To reset the Service Counter, press “Reset” for at least 3 seconds.



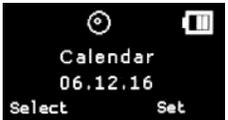
Press “Next” again to show the Total Counter.



Press 'Next' again to show the **Position Sensor**. The position sensor can be activated ('On') or deactivated ('Off') by selecting "On/Off".



Press 'Next' again for the **Calendar** (format: DD.MM.YY). To set the calendar, press 'Select' for 3 seconds until the command 'Next' changes to 'Set' and the first element is flashing. You can switch between "Day", "Month" and "Year" by pressing 'Select'. The changeable value begins to blink and can be changed by choosing 'Set'.



Once the values have stopped blinking, the displayed date can be confirmed by pressing 'Set'.



Press 'Next' to show the **Clock**. To set the clock, press 'Select' for 3 seconds until the command 'Next' changes to 'Set' and the first element is flashing. You can switch between 'Hour' and 'Minute' by pressing 'Select'. The changeable value begins to blink and can be changed by choosing 'Set'.

Once the values have stopped blinking, the displayed time can be confirmed by pressing "Set".



The position detection indicates the position of the vials in the holder of the IDAL device.



If the IDAL is in the right position, the small circle is inside the big circle and the IDAL begins to load. This function helps to reduce possible air inside the system.



If the sensors inside the device detect rinsing fluid, '**NO Vaccine Detected - WARN**' is shown on the display.



If the IDAL is primed with vaccine, the display shows a running pig. The IDAL device is now ready for vaccination.

When starting up the IDAL, three up to five rinsing cycles begin automatically when the trigger is pressed. This will ensure replacing the rinsing fluid present in the circuit by vaccine and prevents the accidental injection of rinsing fluid.

To vaccinate a pig, the trigger has to be pressed. The IDAL must load before it is ready to inject (confirmed by running pig on the display). **An injection is only possible if the trigger is pressed AND then the nozzles are pressed against the pig's skin while trigger is kept pressed.**

The vaccine dose will be discharged automatically, after which the IDAL device can be withdrawn from the pig's skin. By keeping the trigger continuously pressed, the IDAL device automatically prepares itself for the next vaccination. The next pig can now be vaccinated by pressing the nozzles against its skin.

After administering a vaccination, a small residue of vaccine is visible on the pig's skin. This is normal with intra-dermal vaccination and does not affect vaccine efficacy.

5. Operating and cleaning

The following steps should be performed in sequence.

- ⚠ The "pump mode" (low pressure) can immediately switch to the "injection mode" (high pressure). Be aware!

5.1 Preparing the IDAL device for vaccination

During storage, the IDAL device contains rinsing fluid. In order to prepare for vaccination, the rinsing fluid must first be removed and be replaced by vaccine.

Step 1: Inserting the batteries

- Place the batteries in the battery charger and ensure they are being charged.
- Insert a charged battery into the base of the IDAL device. For detailed instructions, please see chapter 8.

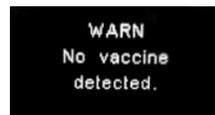
Step 2: Inserting the vaccine vials

- ⚠ Please note: The IDAL 3G Twin Device only works with two inserted vials. Do not operate the IDAL 3G Twin Device as a Mono Injector since this may damage the device.
- Insert two vaccine vials into the holder with the spikes. Ensure that the spikes are inserted through the centre of the rubber seal (bung) of the vials.
- Push the vaccine vials all the way over the spikes. The vials will be adequately held in place by the bungs.
- Please note: If liquid leaks out of the base of the device, simply hold the IDAL device upside down while fitting the vials into the holder.

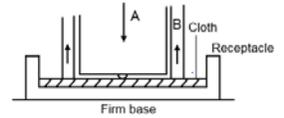


Step 3: Expelling the rinsing fluid

- Depress the trigger to activate the motor.
In the absence of vaccine fluid, “NO Vaccine Detected WARN” will appear on the display of the IDAL device



- Place both injection heads (A) squarely on a cloth in a receptacle on a firm base and press down so that the safety cylinder (B) is pushed back.



- Keep the trigger depressed so that the IDAL device enters into its pump phase.
- This will automatically expel the rinsing fluid at low pressure through the tube and the injection heads, while gradually drawing vaccine from of the vials into the device. The pump will stop automatically as soon as the sensors in the injection heads are detecting vaccine.

Step 4: priming the IDAL device for vaccination

- When IDAL is filled with vaccine, a running pig is shown on the IDAL display. The IDAL device is now primed.

Step 5: setting the counters

- If required, the day counter or bottle counter can be set to "0" (see under 5.3).

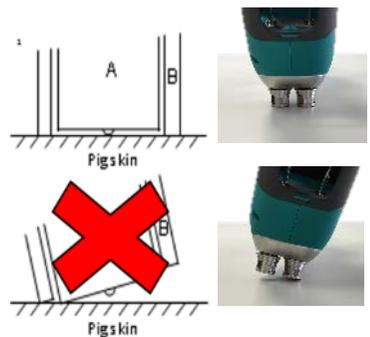
5.2 Vaccination

Before vaccinating, please make sure, that the IDAL Device is primed correctly (please see chapter 5.1 Preparing the IDAL device for vaccination).

To ensure an effective injection technique, the injection heads (A), must be placed at right angle against the pig's skin.

Vaccination takes place by pushing the injection heads flat against the pig's skin as shown in the picture.

Note: a small residue of vaccine will remain on the pig's skin. This is normal when vaccinating intra-dermally, but has no detrimental effect on vaccine efficacy.

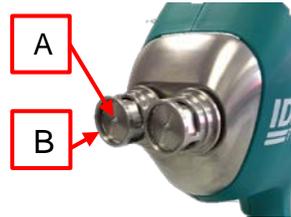


Step 1: Activate the device

- Press the trigger of the IDAL device and keep it pressed.

Step 2: Press against pig

- Push the front of the injection heads (A) against a pig's skin. The safety cylinders (B) will move backwards. The injection doses are now automatically discharged and the vaccine is quickly injected into the skin. Each injection dose contains 0.2 ml of vaccine.



Step 3: Remove nozzles, release trigger

- Remove the nozzles from the skin of the pig that has just been vaccinated. Release the trigger. The safety cylinders once will move forward.

Step 4: Repeat

- Push the trigger again. Then place the nozzles onto the skin of the next pig. The safety cylinders moves backwards and the injection is repeated.
- Remove the nozzles from the skin of the pig that has just been vaccinated. Release the trigger. The safety cylinders once again move into the safety position.

By releasing the trigger between vaccinations, controls are switched off. This safety feature will prevent accidental vaccination. If the IDAL is loaded (running pig) but the trigger is released, the device is in stand-by.

By pressing the trigger and pushing the nozzles against a pig's skin, the IDAL will vaccinate again.

5.3 The shot counters

5.3.1 The day counter

The so-called day counter records the number of shots done in a specified period (e.g. per day or per vaccination session). This counter can be reset at any time. The day counter can record up to 9,999 counts.



Viewing the day counter

- Starting from the main menu (current status) select "Menu".
- The number of shots recorded by the IDAL device appears on the display and will be visible for 30 seconds.

Resetting the day counter

- Press the button "Reset" for at least 3 seconds.
- The counter will return to "0".

5.3.2 The bottle counter

The bottle counter shows the number of doses given with the actual vials – each vial is shown separately. The bottle counter must be set to zero manually with each new vial to check the amount of the doses in the vial.

Viewing the bottle counter

- Starting from the main menu (Current status) select “Menu” and press the button “Next”.
- The number of doses given by the IDAL device with the current vials will appear on the display and will remain visible for 30 seconds.



Resetting the bottle counter

- Press “Select”. The left bottle counter is flashing. Set to zero by pressing “Reset” for approx. 3 seconds.
- To reset the right bottle counter, press “Select” again. The right bottle counter is flashing. Set to zero by pressing “Reset” for approx. 3 seconds.

5.3.3 The Service Counter

The service counter indicates the total number of shots given with the IDAL device since the last service.

Viewing the Service Counter

- Starting from the main menu (Current status), select “Menu” and then press “Next” twice (“Service counter”).
- The total number of recorded shots since the last service will be displayed for 30 seconds.



5.3.4 The Total Counter

The service counter indicates the total number of shots given with the IDAL device. The Total Counter can record up to 999,999 shots.

Viewing the Total Counter

- Starting from the main menu (Current status), select “Menu” and then press “Next” three times (“Total Counter”).
- The total number of recorded shots since the last service will be displayed for 30 seconds.



5.4 Stand-by and switching off

Stand-by:

If the trigger is released and no display button is pressed for 3 minutes, the display will switch OFF automatically. The device is now on stand-by.

To turn the display ON again, simply press any display button or the trigger.

If no action is taken for a further 60 minutes, the device will go into “power saving mode”. In order to reactivate the device, simply press the trigger.



In order to switch off the IDAL completely, the battery needs to be removed. Without removing the battery, the IDAL will remain on stand-by and battery will be drained. For internal cleaning with rinsing fluid, the device needs to remain on stand-by.

Switch off:

When storing the IDAL device, remove the battery to switch off the device completely. After removal of the battery, the IDAL device can be cleaned externally. Make sure the battery pack does not get immersed in any liquid.

5.5 Cleaning instructions

To ensure that the IDAL device continues to operate correctly, it is extremely important that it is cleaned internally and externally after each vaccination session.

5.5.1 Cleaning the IDAL device internally

Note: to clean the interior of the IDAL device, it must remain on stand-by!

After vaccination, the tubes and valves inside the IDAL device need to be cleaned with rinsing fluid. **Only** use the vial of rinsing fluid supplied by MSD Animal Health (see label).



If the IDAL device is not properly cleaned internally, residues of vaccine will dry inside the tubes. The tubes may become blocked as a result.

Note: A vial of rinsing fluid can be used adequately approximately 3 times. Using a vial more than 3 times can cause leakage or the rinsing fluid can become turbid. Turbid rinsing fluid may cause dysfunction of the IDAL device. Vaccine vials shall be discarded after one use, even when there is vaccine left.

Step 1: put device on stand-by

- Release the trigger.

Step 2: remove vaccine vial

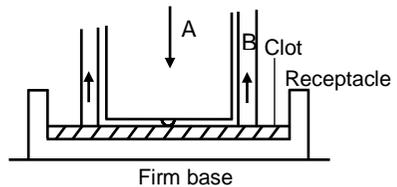
- Remove the vial of vaccine from the holder on the IDAL device.

Note: At this time there is still vaccine inside the tubes of the IDAL device. Before cleaning can take place, all vaccine must be removed from the tubes.

Step 3: Expel remaining vaccine and flush tubes with rinsing fluid

⚠ Remaining injection doses are released **under high pressure** to discharge the vaccine that is still present in the tubes before filling the tubes with rinsing fluid.

- Place two vials of rinsing fluid into the bottle holder with the vial rubber stoppers (bung) on the needles. Make sure that that both needles enter the centres of the rubber bungs.
- Press the vials containing rinsing fluid fully down over the needles. The vials are adequately held in position by the rubber bungs.
- Place the injection heads (A) squarely on a cloth in a receptacle on a firm base, and press down so that the safety cylinder (B) is depressed. An injection dose is discharged.
- Repeat injecting onto the cloth until the IDAL device changes into the pump phase.



- Keep the trigger pressed and the injection heads positioned on the cloth. The IDAL device now automatically starts to pump and the rinsing fluid leaves the tubes via the injection heads at low pressure.
- Keep doing this until "**NO vaccine Detected WARN**" appears on the display. This means the injection heads detects rinsing fluid instead of vaccine.
- Allow the IDAL device to pump at least another 10 times to properly flush the tubes clean.

When the IDAL device is not being used, the tubes should be filled with rinsing fluid for storage. This will prevent the tubes from drying out and cracking.

Step 4: ready

- Remove the injection heads from the sponge or the cloth.
- Remove rinsing fluid vials from the IDAL Device.
- The internal cleaning of the IDAL device is now completed.

5.5.2 Cleaning the IDAL device externally

⚠ The IDAL device is waterproof for splash water (according to standard IP 54) and can be rinsed off under the tap.

The IDAL device can be cleaned using a cloth or tissue and commercial disinfectants at recommended concentrations (e.g. Meliseptol[®], Meliseptol[®] Foam pure, Wofasept[®], Gigasept[®] FF).

⚠ Do not use steam for cleaning or disinfection.

Step 1: Switch off the IDAL Device

- Remove the battery from the base of the IDAL device to switch off the device

Step 2: Point downwards

- Hold the IDAL device pointing downwards (as when vaccinating) to avoid liquid from entering the mechanical system.

Step 3: Rinse

- Rinse the injection heads under the tap. With your other hand on the safety cylinders rotate the safety cylinders to remove any residue of vaccine between the injection heads and the safety cylinders [1].
- Then hold the IDAL device slightly slanted and rinse the needles and the bottle holder clean [2].



- ⚠ Ensure that no water can enter the battery housing in the handle!

Step 4: Dry & store

- Take the IDAL device from under the tap and dry it carefully.
- Once it is completely dry, store the IDAL device in its original packaging.



6. Maintenance and repair

6.1 Nozzles service

Maintenance of the IDAL device is required after 20,000 shots.

When maintenance is necessary, the message “Nozzles Service” will appear on the IDAL display.

For maintenance, the injection heads (available separately) need to be changed by using a torque-calibrated wrench. Maintenance should be done in a clean environment.

-  Always remove battery before doing nozzle service!



-  Make sure, that no vial of Diluvac Forte or Rinsing Fluid is placed in the bottle holder of the device.

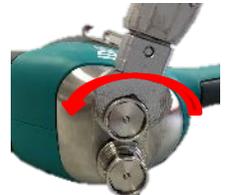


-  Make sure, that no liquid is inside of the Device. In order to do so, please rinse the device approx. 10 times without any vial of Diluvac Forte or Rinsing Fluid before starting with Step 1.

-  Please change one nozzle after the other. As soon as nozzle service is done for the first nozzle, repeat the steps for the second nozzle.

Step 1: Remove old nozzle

- Unscrew the injection heads with a 16-mm-wrench.
 - In order to do so, lay the device on the side and hold it with one hand.
 - If the wrench does not hold the injection head properly, rotate the safety cylinder a bit.
-  As soon as nozzle is dismantled: Ensure that the exposed tip of the IDAL device is protected from dirt. Ensure that the device is held with the head facing downwards so that no liquid can flow back in the system.
-  Hold the device with the head facing downwards in order to drain residues of vaccine and rinsing fluid



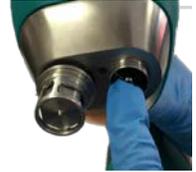
Step 2: Lubricate the o-ring of the nozzle

- Remove the spring of the nozzle
- Lubricate the o-rings of the nozzle using a fingertip of Diluvac Forte or White Oil
- Fit the spring to the nozzle again



Step 3: Lubricate the piston rod

- Lubricate the tip of the piston rod using a fingertip of Diluvac Fort or White Oil

**Step 4: Place new nozzle**

- Put the new nozzle on the tip of the IDAL Device and press it down slightly.
- Ensure, that the nozzle is pressed down until the thread of the nozzle engages all of the thread of the IDAL Device before you tighten the nozzle with a wrench.

**Step 5: Tighten the nozzle**

- Tighten the new injection heads using a 16-Nm torque wrench (16 mm).

**Step 6: Check the nozzle**

- Check if the nozzle is sitting correctly and if the safety cylinder around the injection head is moveable.

**Step 7: Repeat steps 1 - 6 with the second nozzle!**

Step 8: Flush

- Fit two rinsing fluid vials into the holder and rinse until a clean and continuous jet is coming out of both nozzles.

**Step 9: Check functionality**

- If one or both nozzle is/are not operating properly (no clean, continuous jet of rinsing fluid is coming out), please repeat nozzle service.

Step 10: Reset Service Counter

- After successful completion of nozzles service, please reset service counter.
- Starting from the main menu (Current status), select "Menu" and then press "Next" twice ("Service counter").
- Press button "Reset" for at least 3 seconds.
- The counter returns to "0".

**6.2 Factory service**

After 100,000 shots, maintenance in an approved service point is necessary. The message "Factory Service" will appear on the IDAL display. The IDAL device has to be sent to an approved service point. Please contact your supplier to arrange this.

If repair is required, the IDAL device should be sent to an approved service point. Please contact your supplier to arrange this.

NOTE: Repair or maintenance by unapproved service points will lead to a loss of warranty!

-  Unauthorized opening of IDAL devices or battery packs may cause harm and is not allowed!
-  All works on the electrical system may only be carried out by qualified electricians of the manufacturer.

7. Dismantling

The IDAL device may only be dismantled by approved service points.

 Do not open the IDAL device due to health and safety risks!

8. The battery and the charger

Battery

The battery of the IDAL device is a rechargeable Lithium Ion (Li-Ion) battery. At least 1,200 injections can be administered by using a fully functioning and charged battery.



The battery should be slotted into the opening in the base of the IDAL device. A fastening button will hold the battery in position. The battery can be removed from the base by pushing down the button at the back of the battery and by pulling out the battery.

- ⚠ Use only the appropriate batteries in the IDAL 3G Device. The use of other batteries can lead to injuries and fire hazard.
- ⚠ Do not expose the battery to mechanical shocks.
- ⚠ Stop using the battery if the battery becomes abnormally hot, order, discoloration, deformation, or abnormal conditions is detected during use, charge, or storage.
- ⚠ Replace the battery when using time of battery becomes much shorter than usual.
- ⚠ It is recommended that the battery is only charged when the "**charge battery**" warning appears on the display. Never store empty batteries!

Charger

Charge the battery using only the charger supplied. Connect the battery to the charger and connect the charger to an electric socket. When connected correctly the charging process will start automatically.

- ⚠ Check the charger regularly for damage, especially the connection cable and the housing. Do not use damaged battery chargers.
- ⚠ Always grasp the plug, not the cable, when removing the mains plug from the socket.
- ⚠ Faulty electrical installation or too high mains voltage can lead to electric shock. Only connect the battery charger to an easily accessible socket, so that you can quickly disconnect it from the power supply in the event of fault.
- ⚠ If you charge the battery improperly, the battery, battery charger and the IDAL 3G Device may be damaged. Charge the battery at an ambient temperature between 0°C and 45°C.

The LEDs have the following functions:

<p>LED lights orange: Battery is empty and charging</p>	
<p>LED lights yellow: Battery is partly charged and still charging.</p>	
<p>LED lights green: Battery is fully charged.</p>	

- ⚠ The battery charger is not waterproof!
- ⚠ Operate the battery charger indoors only!

9. Troubleshooting

Fault	Cause	Solution
Injection is not possible.	Dirty nozzles.	Clean nozzles (see 5.5.2)
	Malfunctioning nozzles.	Perform Nozzle Service (see 6.1).
	Application error.	Place injection heads squarely on the animal skin (see 5.2)
Liquid is seeping away at the bottom to the front of the handle.	When fitting vials into the bottle holder there may be slight excess pressure inside the vial. Excess liquid is discharged via an overflow hose and will appear at the base at the front of the handle. This has no impact on the injection process.	Remove the liquid with a soft clean cloth. Release pressure from vials prior fitting it to the holder.
		Hold the device upside down when inserting new vials.
When cleaning internally after 10x pumps, no rinsing fluid comes out of the injection heads.	Pump is not working.	Return the IDAL device to MSD Animal Health.
	Vial(s) not properly positioned inside the bottle holder.	Remove the vial(s) and re-position it / them on the needle inside the bottle holder.
The safety cylinder around one nozzle remains jammed following vaccination.	Contamination of the nozzle(s).	Clean the IDAL device.
	Possible damage to the nozzle(s) or to the safety cylinder.	Release the trigger immediately, remove the battery and perform nozzles service (see 6.1) or return the IDAL device to MSD Animal Health
A vial falls out of the holder.	Inadequate mounting of the vial onto the needle.	Position a new vial into the bottle holder.
A lot of vaccine on the skin of the animal and no puncture visible (as mentioned in chapter 5.2, it is normal that a small residue of vaccine will remain on the pig's skin).	Air inside the tubing system.	Deactivate the position sensor. Rinse the device with rinsing fluid. During the pump process, hold the device down, during the rinsing process, hold the device up. Repeat this procedure 10 times.

FAULT	Cause	Solution
<i>IDAL device Display</i>		
"Nozzle Service"	The service counter records 20,000 shots: a service is required.	Perform Nozzle Service. Please see Chapter 6.
"Factory Service"	The service counter records 100,000 shots a service in an approved Service Centre is needed.	Contact MSD Animal Health.
"Send to repair"	Repair is needed.	Contact MSD Animal Health.
"Charge battery"	The battery has to be charged. Vaccination is still possible.	Fit a charged battery into the IDAL device and recharge the empty one.
"Battery Off Please Charge"	The battery has to be charged. It is no longer possible to vaccinate. After 3 sec. the device will be turned off.	Fit a charged battery into the IDAL device and recharge the empty one.
"Load Process"	Weak battery.	Insert a fully charged battery.
	Nozzles defective.	Perform "Nozzles Service" (see Chapter 6)
	Repair is needed.	Contact MSD Animal Health.

10. Technical Specifications

IDAL 3G Twin Device

Modell: 302

Weight: 1455g

Dimensions: 315x188x96mm (with battery)

Battery

Voltage: 10,8 VDC

Capacity: 2500mAh (27,3Wh)

Type: Lithium-Ion rechargeable Cell

Weight: 255 g

Charger

Protection Class: 2

Type: Lithium-Ion battery charger

Input Voltage: 100-240 VAC, 50-60 Hz

Input Current: max 0.9 A

Compliance statements:

CE EU declaration: AMB2621

FCC ID: R7TAMB2621

Certification Number: 5136A-AMB2621

11. Disposal

The IDAL device, batteries, accessories and packaging should be sorted for environmental friendly recycling.

Do not dispose of power tools and batteries/rechargeable batteries into household waste!

Applicable in the EU



Li-Ion

Old appliances must not be disposed of with household waste!

Batteries and rechargeable batteries must not be disposed of with household waste!

According to the European Guideline 2012/19/EU, power tools that are no longer usable, and according to the European Guideline 2006/66/EC, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

12. EC declaration

	Konformitätserklärung / Declaration of Conformity	Seite / Page 1 von 1	
		Produktgruppe / Product group: IDAL	
<small>Alle Rechte vorbehalten. Angabe an Dritte nur mit Genehmigung von GLEICH. All rights reserved. Copies for third parties only by permission of GLEICH. Tous droits réservés. Des copies à des tiers sont autorisées à la permission de GLEICH.</small>		Revisionsstand / Revision status: --	Revisions-Datum / Revision date: 28.08.2018

Wir, die HENKE-SASS, WOLF GmbH, Keltenstrasse 1, 78532 Tuttlingen erklären in alleiniger Verantwortung, die Übereinstimmung mit den folgenden Richtlinien:

- EMV-Richtlinie 2014/30/EU
- Maschinenrichtlinie 2006/42/EG
- Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten

We, the HENKE-SASS, WOLF GmbH, Keltenstrasse 1, 78532 Tuttlingen declare in our own responsibility the conformity to following directives:

- EMC-Directive 2014/30/EU
- Machinery Directive 2006/42/EG
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Diese Konformitätserklärung ist gültig für folgende Produkte:
This Declaration of Conformity is valid for following Products:

IDAL 3G TWIN

Die Produkte stimmen mit folgenden Normen überein:
The products are conforming to following standards:

EN ISO 12100:2010; DIN EN 55011:2011; DIN EN 61000-4-2:2009; DIN EN 61000-4-3:2011; DIN EN 61000-4-8:2010

Für das Ladegerät/For the charger: EN 60335-2-29:2004 + A2:2010; EN 61000-6-3:2007 + A1:2011; EN 61000-6-1:2007

Diese Konformitätserklärung ist gültig bis 29.02.2020.
This Declaration of Conformity is valid until 29.02.2020.

Tuttlingen, den 28.08.2018

Ort und Datum der Ausstellung
Place and Date of issue



Peter Decker
Geschäftsleitung
Chief Executive Officer

HENKE-SASS, WOLF GMBH
Keltenstrasse 1
78532 TUTTLINGEN
GERMANY
Tel. +49(0)7462/9466-0 Fax 9466-500*

Firmenstempel
Company Stamp

T-GLE-005_Frev_-_Konformitätserklärung_diverse Richtlinien



Please contact your local MSD partner or Henke-Sass, Wolf GmbH (manufacturer of the IDAL® device) directly if you need any assistance or spare parts.

Henke-Sass, Wolf GmbH
Keltenstr. 1
78532 Tuttlingen; Germany

Contact Persons:

Adriana Weise
Tel. +49 (0)7461 / 9466 – 207
Fax: +49 (0)7461 / 9466 – 5208
Email:
Adriana.Weise@henkesasswolf.de

Lena Bacher
Tel. +49 (0)7461 / 9466 – 206
Fax: +49 (0)7461 / 9466 – 5208
Email:
Lena.Bacher@henkesasswolf.de