ATMOS
MedizinTechnik

Operating instructions

ATMOS iQam

English

CE

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1 Introduction

1.1 Notes on the operating instructions

These operating instructions contain important instructions on how to operate your product safely, appropriately and effectively.

These operating instructions are designed for training and instructing operating personnel in the use of the system, and they are also intended for use as a reference manual. This document may be reprinted, either in part or in whole, only with the written permission of ATMOS.

These operating instructions must always be kept available near the product.

Care, period tests, regular cleaning and appropriate application are essential. They ensure the operational safety and usability of the product.

Maintenance, repairs and period tests must be carried out only by persons who have the appropriate technical knowledge and are familiar with the product. The person in question must possess the test devices and original spare parts required to carry out these measures.

Read chapter “2 Notes on your safety” on page 10 before using the product for the first time. This will help you to avoid potentially dangerous situations.

This device bears the CE marking CE in accordance with the European Medical Device Regulation (MDR) 2017/745.

The product complies with all applicable requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (“RoHS”).

The Declarations of Conformity and our General Terms and Conditions can be viewed on our website at www.atmosmed.com.

The quality management system applied at ATMOS has been certified according to the international standard EN ISO 13485.

These operating instructions are valid for the following products:

- ATMOS iQam 507.6000.0
- ATMOS Cam 507.6400.0

1.2 Explanation of pictograms and symbols

In the operating instructions

⚠ DANGER Warning of a danger resulting directly in fatal or serious injury. Observe the necessary measures.
⚠ WARNING Warning of a danger of fatal or serious injuries. Observe the necessary measures.
⚠ CAUTION Warning of a danger that can cause minor injury. Observe the necessary measures.
ATTENTION Notice of a danger of damage to the product or other objects. Observe the necessary measures.

⚠	Warning of a danger of serious or fatal injury.
ⓘ	Notice of potential material damage that can be caused.
☞	Useful information on handling the device.
1.	Call for action. Proceed step by step.
»	Result of an action.
→	Move/plug in this direction.
click	Engage and check for tight fitting.

On device and type plate

	Follow the operating instructions (blue)
	Observe the operating instructions!
CE	This product meets the relevant requirements of the EU directives.

	This product may be used with a UL-listed product in the USA and Canada.
	This device meets the relevant requirements of the Eurasian Economic Union.
	Manufacturer
	Date of manufacture Country of manufacture
MD	Medical product
REF	Item number
UDI	Unique identifier of a medical product
SN	Serial number
IP68	Degree of protection
	Foot switch
	Protection class (EN 60601-1) ll
	Professional disposal
	This side up
	Handle with care
	Store in a dry place
	Keep away from sunlight
	Temperature limit

	Humidity limit
	Atmospheric pressure limitation

UDI application identifier

(01)	UDI-DI: identification of the manufacturer and product
(11)	Date of manufacture
(21)	Serial number

1.3 Intended use

Product name:	ATMOS iQam
Main function:	Endoscopic camera for digitization of the endoscope image and subsequent transmission to a PC for processing and display.
Intended use/purpose:	Imaging for diagnostic endoscopy in ENT medicine
Intended users / user profile:	Physicians and medical specialists
Intended patient group:	Patients of all ages without restrictions
Medical conditions to be diagnosed, treated or monitored:	Anatomical anomalies of all kinds
Application organ:	Ear, nose, throat
Application time:	< 60 min.
Application environment:	Outpatient medical facilities, e.g. ENT practices, hospital outpatient departments, medical care centres
Patient selection criteria:	None
Indications:	Diagnostic endoscopy in ENT medicine
Contraindications:	None
Warnings:	None
The product is:	Active
Sterility / specific microbial status:	Non-sterile
Single-use product / reprocessing:	No single-use product. Options for re-sterilization according to the operating instructions.

1.4 Function

The ATMOS iQam is an endoscopic camera. It is intended to be connected to a flexible or rigid endoscope for digitization of the endoscopic image. The digital image can be viewed on a PC including video software that needs to be connected to the product.

The device is an electrically driven device powered via USB through its periphery. The device includes an image sensor and the electronics required for image generation and processing.

1.5 Scope of delivery

Name	REF
ATMOS iQam The set includes: • Camera cable • Foot switch • ATMOS Capture Suite Basic (software on USB flash drive) • ATMOS iQam Quick Guide	507.6000.0
ATMOS Cam The set includes: • Camera cable • ATMOS Capture Suite Basic (software on USB flash drive) • ATMOS iQam Quick Guide	507.6400.0

1.6 Transport and storage

Transport the device only in a shipping carton that is padded and offers sufficient protection.

If damage occurs during transport:

1. Document and report any transport damage.
2. Send the device to ATMOS; see chapter “6.3 Sending in the device” on page 29.

Ambient conditions for transport and storage:

Please observe chapter “9 Technical data” on page 32.

2 Notes on your safety

Please read the safety instructions thoroughly and pay attention to them before using the product.

2.1 General safety instructions

Use only accessories and options that are explicitly defined as suitable for combination with the product and meet the performance and safety requirements.

The PC used must comply with the standard IEC 62368-1.

If you wish to connect more than one device or applied part, you must always observe their safety instructions.

The product uses vibration as haptic feedback. When used in combination with the ATMOS Capture Suite Basic software, the vibration can be deactivated.

Report all serious incidents that have occurred in connection with this product to the manufacturer and your national competent authority.

2.2 Danger for users, patients, and third parties

⚠ CAUTION

Electric shock due to unsuitable power supply, incorrect handling of the product or damage to product components

Minor injuries are possible.

- Prior to each use, check for damage to the device and camera cable. Do not operate the device if you notice any damage. In this case, clean and disinfect the device and send it to ATMOS for repairs.
- The device can only be disconnected from the power supply by pulling out the camera cable.
- Position the device so that it can always be disconnected from the power supply easily.
- Never touch the plug or power cable with wet hands.
- Never touch the device's interfaces and the patient at the same time!
- Only use original accessories and original spare parts from ATMOS.
- Observe the specifications regarding period tests in chapter "6.1 Period tests" on page 28.

- Assembly, new settings, alterations, extensions and repairs must be carried out only by authorized persons.
- Do not modify the device without the manufacturer's permission.

ATTENTION

Keep the product fully functional.

Malfunctions could cause injury to you and your patients.

- Please observe the notes on the electromagnetic compatibility (EMC) of the device.
- If the camera fails, then use the endoscope without the camera.
- ATMOS recommend using only original ATMOS software.

⚠ CAUTION

Danger of infection by germs on the product!

Diseases can be transmitted.

- Always wear disposable gloves when using the product.
- Clean and disinfect it according to the operating instructions.

2.3 Avoiding damage to the device

ATTENTION

Unsuitable mechanical stress.

Risk of damage to the camera cable.

- Make sure that the camera cable is not pinched, squeezed, knotted or clamped off.
- Do not pull on the camera cable.

ATTENTION

Storage and operation in an unsuitable environment.

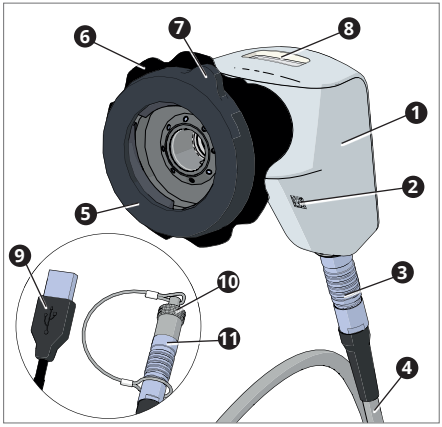
The product may become damaged.

- Please observe the ambient conditions regarding transport, storage and operation in chapter "9 Technical data" on page 32.

3 Setting up and starting up the device

3.1 Device overview

Front view



1. Camera head
2. Unique Device Identification (UDI)
3. ATMOS connector plug
4. Camera cable
5. Endoscope coupler
6. Focusing ring
7. Release lever
8. Status indicator
9. USB connector (optional)
10. Protection cap
11. ATMOS connector plug (optional)

3.2 System requirements

3.2.1 Hardware system requirements

The system requirements for the ATMOS iQam are the standard USB 3.0 and the system requirements of the ATMOS Capture Suite HD software. The ATMOS iQam can always be used on PCs that meet these system requirements. Please use a PC or an equivalent system (according to IEC 62368-1). The colour reproduction of the ATMOS iQam has been adjusted to ATMOS's hardware and may vary on third-party hardware. ATMOS shall assume no liability or service for third-party hardware.

Stable functioning of the ATMOS iQam will not be ensured if the mains supply is insufficient. The simultaneous operation of several USB devices, in particular, may be problematic.

No USB hub must be used between the PC system and ATMOS iQam.

3.2.2 Software system requirements

The ATMOS iQam is identified by compatible computers as an external video source. Despite its compatibility with a wide range of third-party software, ATMOS strongly recommend using the ATMOS iQam exclusively with the video software ATMOS Capture Suite Basic or ATMOS Capture Suite HD.

ATMOS shall assume no liability or provide services for using the ATMOS iQam with third-party software.

3.3 Using the device in combination with other devices

Only qualified personnel are authorized to install electrical systems. The manufacturer of an electrical medical system is responsible for ensuring that the performance, safety, technical data and intended use of the ATMOS iQam are not impaired.

Observe the following information when connecting the device in the required combination:

- Refer to the specifications of EN 60601-1 on medical electrical systems.
- Pay particular attention to the information on the patient environment, multi-outlet power strips and leakage currents.

3.4 Preparing the device

⚠ Risk of injury and risk of infection due to production residues.

1. Prior to first use, prepare the product according to the operating instructions.
2. Connect the camera cable to the camera head. Make sure that the red dots on the ATMOS connector plug and camera head are facing each other.
3. Perform a function check after connecting.

Connecting to a PC

Connect the camera cable (USB connector) to a PC.

Connecting to an ENT treatment unit (ATMOS S 61 Servant vision or ATMOS S 61 CORIAN® integral)

Connect the camera cable (ATMOS connector plug) to the corresponding connection on the respective ENT treatment unit.

[1]Corian® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliated companies.

3.5 Installation of the ATMOS Capture Suite Basic

Only use the supplied USB flash drive with a medical PC. Select the file “ATMOS Capture Suite Basic setup.exe” and follow the installation instructions on the screen.

3.6 Configuration of the ATMOS iQam in the software

1. Launch the software.
2. Open the “Options” window.
3. Activate “iQam” in the camera selection (see chapter “3.8 Settings and operation” on page 15).
4. Exit the software.

3.7 Switching on

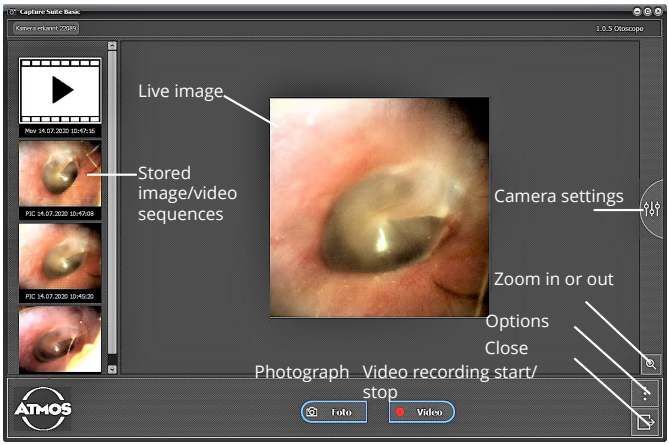
After successful installation, you can connect the ATMOS iQam via USB interface.

Open the image display program “ATMOS Capture Suite Basic.” The live image appears. If necessary, the correct camera must still be selected (see chapter “3.8 Settings and operation” on page 15).

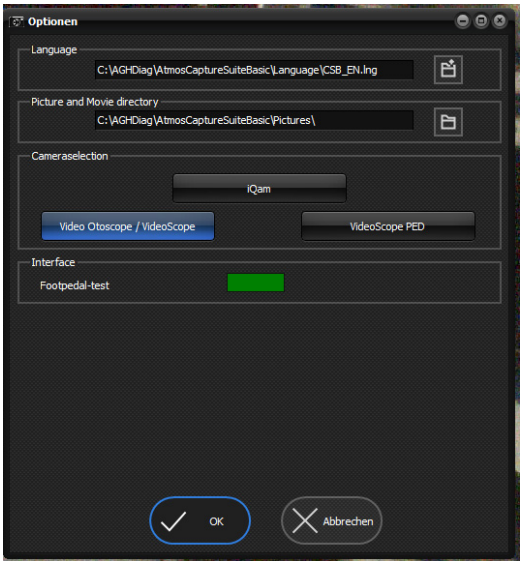
The images and videos that have already been recorded and saved can be seen on the left hand side.

3.8 Settings and operation

The setting options in live mode are shown in the following image:



The language, storage paths and camera sources can be set with the "Options button" in the software.



4 Operation

4.1 Ambient conditions during operation

See chapter “9 Technical data” on page 32.

4.2 Switching on the device

Remove the camera from the camera mount or from the shelf.

» The camera turns on.

» The camera vibrates 2x.

» The status indicator lights up blue.

4.3 Switching off the device

Attach the camera to the camera mount or place the camera on the shelf.

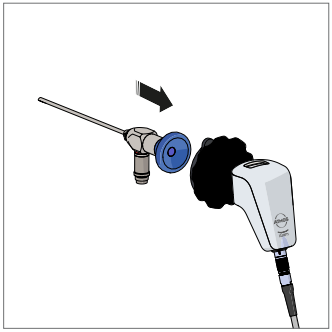
» The camera goes into standby mode.

» A hint symbol appears momentarily on the monitor.

» The status indicator lights up blue at regular intervals (“Breathing”).

☞ To disconnect the camera from the power supply, the plug of the camera cable must be pulled out.

4.4 Connecting and removing the endoscope



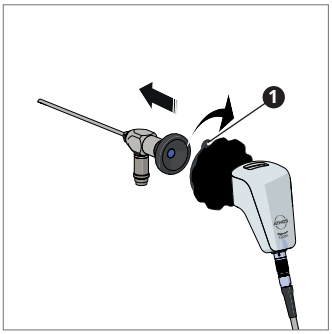
4.4.1 Connecting the endoscope

1. Launch the software.
2. Push the eyepiece lens of the endoscope straight into the endoscope coupler of the camera.

» The camera automatically selects the appropriate settings for the endoscope.

» The camera vibrates 2x.

» The recognized endoscope profile appears on the monitor.



4.4.2 Removing the endoscope

Securely hold the endoscope and turn the release lever ❶ to the right.

» The endoscope is released from the camera.

4.5 Setting the image

4.5.1 Focusing the image

1. Launch the software.
2. Turn the focusing ring.

4.5.2 Zooming

1. Launch the software.
2. Zoom in on the live image display of the software.

4.6 Recording videos

Starting and stopping a recording

1. Launch the software.
2. Tap twice on the status indicator (to use this function, tab mode must be activated and video recording must be selected as a function for the mode; see chapter “4.9 Changing the settings” on page 19).

» The video recording starts.

» The status indicator lights up red.

» The camera vibrates 2x.

» A red dot appears in the live image.

3. Tap again twice on the status indicator.

4. The video recording stops.

» The status indicator lights up blue.

☞ You can also start and stop the video recording via the software or a foot switch.

Pausing a recording

1. Pause the recording via the button in the software.

» The status indicator flashes red.

» Two red vertical bars appear in the live image.

4.7 Capturing a snapshot

1. Launch the software.
2. Tap twice on the status indicator (to use this function, tab mode must be activated and snapshot recording selected as a function for the mode; see chapter “4.9 Changing the settings” on page 19).

» The snapshot is taken.

» The status indicator lights up blue briefly.

» The camera vibrates twice.

☞ You can also take the snapshot by means of software or with a foot switch.

4.8 Setting the white balance

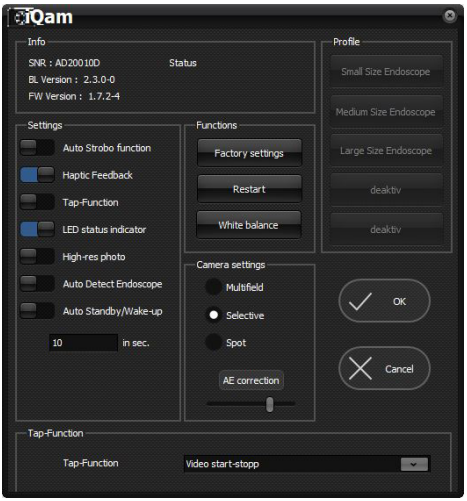
☞ Do not set the white balance under fluorescent light because otherwise the result may not be satisfactory.

1. Launch the software.
2. Turn on the light source and wait until the light has stabilized.
3. If possible, carry out the white balance under natural lighting conditions. Otherwise, use a white/grey surface.
4. Open the Camera Setting window.
5. Click on the White balance button.

4.9 Changing the settings

You need the ATMOS Capture Suite software to use these functions. Observe also the operating instructions for the ATMOS Capture Suite software.

4.9.1 Deactivating functions



You can disable the following functions:

Auto Strobo function	Display of the stroboscope parameters and the corresponding camera settings while stroboscoping
Haptic feedback	Vibration of the camera
Tap function	Reaction when tapping on camera head
LED status indicator	Status indicator
Automatic changeover	Automatic changeover of video source
High-res snapshot	Saves photo in highest possible resolution
Auto Detect Endoscope	Automatic endoscope detection
Auto Standby/Wake-up	Automatic transition to standby mode

1. Launch the ATMOS Capture Suite Basic software.
2. Open the Camera Setting window.
3. Select the ATMOS iQam tab.
4. Move the respective slider by clicking to the left. The background of the slider turns black after switching off the function.

4.9.2 Changing actions by tapping on the camera head

1. Launch the ATMOS Capture Suite Basic software.
2. Open the Camera Setting window.
3. Select the appropriate entry in the Tap function selection box:
   - Start/Stop snapshot / video recording: Snapshot mode: Capture snapshot, video mode: Start/stop video recording
   - White balance: Setting the white balance

4.9.3 Setting the time until standby mode is activated

1. Launch the ATMOS Capture Suite Basic software.
2. Open the Camera Setting window.
3. Select the desired time in auto standby (in seconds).

4.9.4 Restoring factory settings

1. Launch the ATMOS Capture Suite Basic software.
2. Open the Camera Setting window.
3. Click on the Factory settings button.

5 Sterilization

5.1 Safety notes on sterilization

5.1.1 General safety instructions

We recommend that you always document any maintenance work and also any exchange of parts.

It is the responsibility of the user to ensure that the required cleaning and disinfection results are achieved. Validation and routine monitoring of the procedure are usually necessary.

Reprocessing may only be carried out by persons who have the necessary expertise. The person in question must have the necessary equipment to carry out these measures.

5.1.2 Danger for users, patients and third parties

ATTENTION

Risk of infection due to unsuitable accessories.

Pathogens can be transmitted.

- Always wear your own personal protective equipment. The protective equipment consists of protective gloves, protective clothing and safety gloves for all steps in which the product components are still contaminated.
- Use only accessories that are easy to sterilize or are disposable products.

ATTENTION

Risk of infection due to unsuitable sterilization.

Pathogens can be transmitted.

- Make sure all areas of the accessories are easy to access.
- Make sure no air bubbles form in the cavities and lumens of accessories when placing them in sterilization solutions.

5.1.3 Avoiding product damage

ATTENTION

Damage to the device due to cleaning with fixatives!

Stains can no longer be removed permanently.

- Do not use any aldehydes before and during cleaning.
- Do not expose the product to temperatures above 40 °C / 104 °F before and during cleaning.

ATTENTION

Unsuitable accessories.

The product may become damaged.

- Use only lint-free, soft cloths.
- Always use fully demineralized water for the final rinsing.
- Follow the corresponding operating instructions of all aids and devices used.

ATTENTION

Unsuitable cleaning agents and disinfectants.

The product can become damaged.

Do **not** use **any** process chemicals that contain ingredients such as chloramines or phenol derivatives **for plastic parts**.

5.2 Preparing and completing the sterilization process

Prior to sterilization

Disassemble the product for sterilization into the following components:

- ATMOS iQam
- Camera cable

After sterilization

Perform a function check.

5.3 Preparing surfaces

5.3.1 Overview

Surface	After each application	After each patient	Daily	Weekly	Every 14 days	Monthly	Whenever necessary	Pre-cleaning	Wipe cleaning	Wipe disinfection	Immersion disinfection	Remarks
ATMOS iQam housing		X							X	X		
Optical instruments							X					Optical instruments should be sterilized only if necessary to avoid material impairments and malfunctions due to chemical influences.

5.3.2 Material compatibility

☞ Observe the specifications of the cleaning agent and disinfectant manufacturers with regard to material compatibility, concentration and exposure time.

Only agents with the following active ingredients should be used to sterilize the instruments:

Cleaning:

- Enzymatic cleaners

Disinfection:

- Alcohols
- Peroxide compounds
- Quaternary ammonium compounds
- Phthalates
- Glutaral-/-aldehyde

5.3.3 Implementation

	Instruction
Warning	
⚠ WARNING	**Danger to users, patients and third parties** • Only trained specialist personnel may carry out cleaning and disinfection work. • Always wear suitable personal protective equipment (e.g. protective gloves, protective clothing and safety goggles) during the sterilization process to protect yourself against contamination. • The product is to be checked for visible damage each time before sterilization. Damaged products must not be used any further.
⚠ WARNING	**Avoiding damage to the device** • Observe the specifications of the cleaning agent and disinfectant manufacturers with regard to material compatibility, concentration and exposure time. Unsuitable agents can damage the product or impair the sterilization effect. • Make sure all surfaces are fully covered during the disinfection process. Incomplete coverage may result in insufficient reduction of germs. • Do not clean the ATMOS iQam in an ultrasonic bath, because the optical instruments could become damaged! • The product is not autoclavable. • The lens should be cleaned only if necessary.
	Instruction
Preparations prior to cleaning	1. Switch off the ATMOS iQam before the sterilization process. 2. Remove the camera cable from the ATMOS iQam. ☞ You can remove any dust that accumulates on the objective lens surfaces with compressed air or with a soft, clean brush.

	Instruction
Manual cleaning	**Wipe cleaning:** 1. Housing surface: Wipe the following surfaces with a clean, lint-free cloth moistened with cleaning agent: • Camera head • Endoscope coupler • Focusing ring with release lever. 2. Optical instruments: Use a clean, soft, lint-free lens cloth for the optical instruments. Apply a few drops of isopropanol or a cleaning agent suitable for the lens to the cloth. Use the cloth to wipe circularly from the middle to the outside. **Immersion cleaning:** 1. Immerse the device evenly in cleaning agent solution (observe the manufacturer's specifications). 2. Leave out the optical instruments and clean only the surface of the housing evenly with a soft, lint-free disposable cloth. The optical instruments must be sterilized only by means of wipe cleaning with suitable optics cleaning cloths. 3. After cleaning the ATMOS iQam, rinse it thoroughly with water for at least one minute, better with fully demineralized water. 4. If there is still some visible contamination, repeat the cleaning to avoid impairing the disinfection effect.

	Instruction
Manual disinfection	**Wipe disinfection** 1. Housing surface: Wipe the following surfaces with a clean, lint-free cloth moistened with cleaning agent: • Camera head (leave out the optical instruments) • Endoscope coupler • Focusing ring with release lever. 2. Make sure all recesses are covered thoroughly and no areas are left out when disinfecting the focusing ring. 3. Ensure even and full coverage to achieve an optimum disinfection effect. 4. Allow the disinfectant to take effect according to the recommended exposure time before continuing with the next step.
	Instruction
Drying	1. Wipe the ATMOS iQam with a clean, soft, lint-free disposable cloth specially suitable for optical instruments after the immersion cleaning. ☞ Avoid residual liquid and dry edges on the lens when drying. 2. Dry the lens with isopropanol if necessary to counter-act streaking.
	Instruction
Maintenance, check and inspection	1. Check the success of the sterilization by means of visual inspection. 2. If the sterilization process was unsuccessful, the procedure must be repeated. 3. Dispose of any damaged accessories and replace them or have them repaired. 4. Subject the device to a function check each time before using it; see chapter “6.2 Function check” on page 28.

	Instruction
Storage	Store the ATMOS iQam in a dust free environment – ideally in the intended camera holder or with a suitable cover to avoid any contamination. Observe the ambient conditions for storage; see chapter “9 Technical data” on page 32.
Additional information	The image quality could be affected even by the slightest contamination, such as fingerprints.

6 Maintenance and service

Maintenance, repairs and period tests must be carried out only by persons who have the appropriate technical knowledge and are familiar with the product. The person in question must possess the test devices and original spare parts required to carry out these measures.

For design reasons, it is not possible to repair the ATMOS iQam on site. Always send defective devices to an authorized ATMOS Partner for repair. ATMOS do not accept any liability for damage resulting from unauthorized interventions.

Maintenance, repairs and period tests must **not** be carried out while the product is being used on the patient.

6.1 Period tests

Observe the specifications for the individual components.

6.2 Function check

Always perform a function check when connecting the camera cable. Perform a function check at least once a week.

1. Check if the following items are obviously damaged, missing, or not properly connected:
   - Camera head
   - Camera cable
   - Accessories
2. Check whether the parts mentioned above are hygienically harmless.
3. If you find any damage, please remedy it.
4. Connect the camera cable if it is not already connected.
5. Connect an endoscope.
6. Check the connection camera head – endoscope.
7. Check if the status indicator lights up blue.
8. Check if the image is displayed on the monitor.
9. Focus the image.
10. Check if the image is sharp.
11. Take a snapshot or make a video and check whether the camera vibrates 2x when activated.

6.3 Sending in the device

1. Clean and disinfect the product and accessories in accordance with the operating instructions.
2. Submit any used accessories with the product.
3. Fill in the QD 434 form “Delivery Complaint / Return Shipment” and the corresponding **decontamination certificate**.

☞ This form is enclosed with each delivery and can be found at www.atmosmed.com.

4. The product must be well padded and packed in suitable packaging.
5. Place the QD 434 form “Delivery Complaint / Return Shipment” and the corresponding **decontamination certificate** in an envelope.
6. Affix the envelope to the outside of the package.
7. Send in the product to ATMOS or your dealer.

7 Troubleshooting

The product was subjected to thorough quality control at the factory. If a fault should occur despite this care, you may be able to resolve it yourself.

Error symptom	Possible cause	Remedy
The status indicator flashes yellow.	Technical defect.	Contact an authorized ATMOS service partner.
The camera does not display the colours correctly.	Colour settings are optimized for LED light sources.	Colours may be displayed incorrectly when affected by extraneous light. Check the colour fidelity when using an endoscope without ambient light (e. g. during use); see chapter “3.8 Settings and operation” on page 15.
The camera does not vibrate.	Function has been deactivated.	Activate the function in the ATMOS Capture Suite Basic software; see chapter “3.5 Installation of the ATMOS Capture Suite Basic” on page 14.
The status indicator does not work.		
Endoscope is not detected automatically.		
Camera does not go into standby mode.		
Camera does not respond when the camera head is tapped on.		

8 Disposal

Packaging

1. Please recycle the product packaging.

Product

Do not dispose of the product together with household waste.

The product does not contain any hazardous materials.

1. Clean and disinfect the product.
2. Dispose of the product properly in accordance with national laws and regulations.

In principle, the housing is fully recyclable. However, observe the national laws and regulations.

8.1 Service life

If the ATMOS iQam device is used according to the operating instructions, it will have an expected service life of 10 years. Regular, thorough cleaning and disinfection of the device and its applied parts as well as the operation of the device in line with the operating instructions are assumed.

9 Technical data

ATMOS iQam

Voltage	5 V ⎓
Current consumption	Max. 0.5 A
Power consumption	Max. 2.5 W
Other power sources	None
Fuses	n/a
Other safety equipment	n/a
Performance parameter 1	n/a
Performance parameter 2	n/a
Important accessory parameters	n/a
Option 1	n/a
Option 2	n/a
Operation time	Continuous operation
Protective earth conductor resistance Earth leakage current Housing leakage current Patient leakage current	N/a N/a N/a N/a
Ambient conditions for transport/ storage • Temperature • Humidity without condensation • Pressure	 −40...+80 °C 5...90 % 700...1060 hPa
Ambient conditions for operation • Temperature • Humidity without condensation • Pressure	 +10...+35 °C 30...95 % 700...1060 hPa
Maximum operational altitude	4000 m (NN)
Contamination level	Class 2
Overvoltage category	I
Dimensions (H x W x D)	7.7 x 5.7 x 9.0 cm

Weight	0.183 kg
Period tests	Observe the specifications for the individual components.
Protection class against electric shock (according to EN 60601-1)	II
Classification of applied part	Type-BF applied parts
Type of protection	IP 68
CE mark	CE
Ident-No. (REF)	507.6000.0, 507.6400.0

10 Notes on EMC

☞ Electric medical devices are subject to special precautions with regard to EMC and must be installed according to the EMC instructions described in the following.

Guidance and manufacturer's declaration – ambient conditions

The ATMOS iQam is suitable for use in the following environments:

- Environment in professional healthcare facilities such as doctor's practices, clinics, or first-aid facilities as well as operating rooms and outside of the HF-shielded room of a magnetic resonance imaging system.

The customer or user of the ATMOS iQam must ensure that the device is used in a prescribed environment.

Guidance and manufacturer's declaration – key features

☞ Please observe the technical data in this manual. The essential features are fully usable even in the presence of electromagnetic disturbances.

Guidance and manufacturer's declaration – for accessories, transducers, and cables

The ATMOS iQam has the following accessories, transducers and cables:

Type	REF	Max. cable length
ATMOS iQam camera cable with USB connector	507.6028.0	2 m

Guidance and manufacturer's declaration – warnings

⚠ WARNING

The use of accessories, transducers and cables other than those specified or provided by the manufacturer may cause increased electromagnetic emissions or reduced immunity to electromagnetic interference and result in faulty operation.

⚠ WARNING

Portable HF communications equipment (e.g., radios, antenna cables) should not be used within 30 cm* of any parts as specified by the manufacturer or of the ATMOS iQam cables . Failure to do so may lead to a reduction in the device's key features.

☞ *The distance may be reduced at higher immunity test levels.

11 Notes

MedizinTechnik

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