admetec



Flamingo

Instructions for Use

IM4000005 Rev. H

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CE

Manufacturer:

Admetec Solutions LTD.
18 Yokhanan HaSandlar St

Haifa, Israel.

Introduction

Thank you for choosing admetec

Intended Use:

Flamingo is an integrated HD camera and light system designed for use in dental and medical practices. It attaches to magnification loupes to assist practitioners in both illuminating procedures and documenting them. The light enhances patient care by improving visibility during procedures, while the camera enables real-time display and recording of detailed images, enhancing documentation and educational opportunities for medical professionals.

About Flamingo

- **Lightweight (just 19 grams!)**

Designed to be a lightweight ergonomic extension of your loupes.

- **Integrated light and camera**

Proper lighting is critical both for focus and quality image capture.

- **Live broadcast via Wi-Fi to the computer**

Real time display of what you are doing, while you do it (delay of 0.05 seconds).

- **Full HD video**

Ultra-smooth, high-quality 1080p | 30fps, vivid, “living color” video recording.

- **Unrestricted movement**

With Admetec’s Main Control Unit (MCU) on your belt or in your pocket. For unparalleled convenience and user-friendliness.

- **Admetec proprietary software**

Enables video editing including taking quality screen captures for real-time collaboration and documentation.

Product overview



Flamingo Insert Set

Please note that the images are for illustration.

Your Flamingo comes with:

1. Camera & light module
2. Extra Camera Lens (Optional)
3. Main Control Unit (MCU) with 2 batteries
4. Flamingo Remote Control (Optional: Wireless Pedal- see picture below)
5. Charging Stand
6. USB PD charger- (Optional: AC/DC adaptor-see picture below)
7. Camera & light module cable to MCU
8. Charging Stand Cable / Flamingo Remote Control Charing Cable
9. Screwdriver
10. Frame-temple adapter for cable
11. Clothing cable-clip
12. Wi-Fi USB dongle and USB-A adaptor
13. External composite (Yellow) filter
14. White balance/ Focus Card

Optional items for set:

Wireless Pedal and charging cable



AC/DC adaptor



⚠ Safety Precautions

Before using the device, verify that it is assembled and connected as described on page 5. Refrain from exposing the **Flamingo** to water.

Do not operate **Flamingo** close to explosive or highly flammable materials like alcohol, methanol, acetone, etc.

Do not use any third-party AC/DC adaptor with **Flamingo** battery charger stand, even if they look identical. Third-party chargers may not be compatible with the battery charger and could damage it.

Prevent the MCU from overheating. Avoid direct sunlight or heated surfaces.

When used with non-Admetec loupes, use the appropriate adaptor to ensure maximum focus and stability when using Flamingo camera.

Note that any serious incident should be reported to the manufacturer and Competent Authority in which the patient is established.

Do not attempt any repairs or modifications to the product, as this may pose serious hazards. All repairs must be conducted exclusively by Admetec.

Store and transport the **Flamingo** using the designated case to prevent potential trauma.

Troubleshooting

Issue	Troubleshooting
The light does not work steadily	Check cable. Contact your local distributer for instructions
The video does not record or show video image	Contact local distributer or flamingo@admetec.com
Low brightness	Use the brightness adjustment buttons
Battery overheats regularly	Contact local distributer
Battery Swollen	Contact local distributer
Buttons are stuck	Contact local distributer
Flamingo application issues email:	flamingo@admetec.com

Assembling MCU and Camera Module

To insert the battery into the MCU socket.

1. Remove protective foil from the battery contacts. [Fig. 01]
2. Insert the battery into the MCU socket. [Fig. 02]

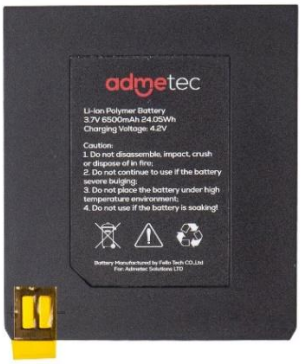


Fig. 01 – Flamingo battery



Fig. 02 – MCU socket

Connect the MCU and camera module with the provided cable.

1. Plug the USB Type C side into the MCU port [Fig. 03]
2. Plug the Micro USB cable type into the camera module port. [Fig. 04]



Fig. 03 – Type C cable insert into MCU

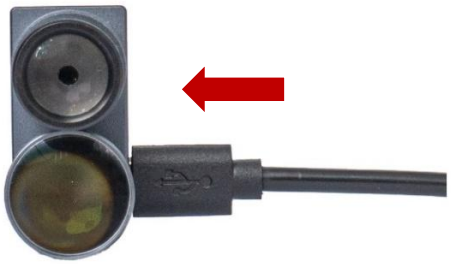


Fig. 04 – Camera module with Micro USB

Caution

Do not use any third-party AC/DC adaptor with Flamingo battery charger stand. Third-party chargers damage the battery charger stand.

Caution

Prevent MCU from overheating.

To check battery status, press the “Check” button (see Page 06).

Risk Group 2

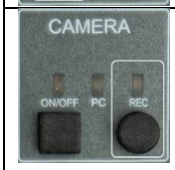
CAUTION Possibly hazardous optical radiation emitted from this product

Do not stare at operating lamp. May be harmful to the eyes.

Flamingo MCU Indicators

Each **Flamingo** kit includes one MCU and two batteries which serve as a power source and control panel for the camera and light module.



Item/Button	Description	Action
	Camera Power ON/OFF button	To turn ON, press the 'ON/OFF' button. To turn OFF, press & hold for 3 sec' the 'ON/OFF' button.
	REC Button	Press for 3 sec the 'REC' button to enter recording mode and recording: o Blinking red- upon entering REC mode o Constant red- recording On No light- upon exiting REC mode
	LED Indicators	Blinking blue = MCU is loading Steady blue = Device is ready Green led = Linked to PC/Laptop Blinking red = Recording mode ready Constant red = Recording live mode
	Light Power ON/OFF button	To turn ON or OFF, press the 'ON/OFF' button.
	Light Intensity controls	Press the '+' or '–' to increase or decrease the light intensity.
	Battery status	To check battery level press & hold the 'Check' button.

Optional items for set:

	Light Power ON/OFF cable switch*	To turn ON or OFF, press the 'ON/OFF' button.

* Not available

Battery charging

1. Connect the AC/DC adaptor output to the Flamingo charging stand. Make sure the power cable is connected to the AC/DC adaptor and plugged to the wall power outlet.



Optional AC/DC charger with the following connection 



2. Insert the battery to the charging stand socket as shown below.

Average charging time for an empty battery is 3.0 hours.

⚠ Do not position the wall mount AC/DC adapter so that it is difficult to mount and disconnection.

To maintain optimal battery performance, fully charge the batteries before first use and recharge them at least once every six (6) months

Charging stand – Light Indicators

Blue color indicator	Power connected
Red color indicator	Battery is charging
Green color indicator	Battery is fully charged

Flamingo Remote Control

1. Activate the remote by shortly pressing the *Pairing* button.
2. Press *Start/Pause* to begin recording and to pause the recording.
3. Press *Screenshot* to capture still images during recording.
4. To freeze the frame during recording, press and hold the *Screenshot* button for 3 seconds. To unfreeze, press any button on the remote control.
5. To activate the "save" option, press and hold the *Start/Pause* button for 8 seconds. If no action is taken within this period, the recording will automatically be saved under a default name. To resume recording process, press the start/pause button again.
6. The remote control is supplied already paired. If re-pairing is required:
    1. Press and hold the Pairing button for 3 seconds, until the text changes from Ready to Pairing
    2. In the settings menu, then press Advanced (on the software) and select Pair Remote.
    3. For a "hard reset," which clears all existing pairings, press and hold the Pairing button for 7 seconds.
7. For Charging: use Charging Stand Cable / Flamingo Remote Control Charing Cable (see page 3) .

⚠ Do not position the wall mount AC/DC adapter so that it is difficult to mount and disconnection.



Flamingo Pedal

1. Press the Pedal to initiate video recording. Press the Pedal again to stop video recording.
2. To charge the Pedal: Connect the Pedal Charging Cable (see page 3) to a computer.
   The computer used for charging must be certified to IEC 60950-1 or IEC 62368-1.
   Warning: The Pedal must **not** be charged using any AC/DC adapter, including the one supplied by Admetec nor any other external power supply/adapter.

Flamingo Dongle

Connecting Flamingo Dongle is allowed to be connected only to a PC certified to IEC 60950-1 or IEC 62368-1

Downloading the software

To set up your Flamingo you are required to download Admetec's proprietary software on your device/PC and follow the instructions in the user manual on the website.

Download the Flamingo software and the User manual from the following link: https://www.admetec.com/flamingo

Minimum PC Requirements:

- OS: Windows 10 or above
- CPU: Intel Core i5 or better or AMD Ryzen 5 or higher
- GPU: An integrated graphics card
- RAM: Minimum of 8GB
- Storage: Minimum of 250GB SSD
- USB: one free USB 2.0/3.0 port

Minimum MAC Requirements:

- MAC Operating System- MacOS 12 Monterey
- Minimal hardware requirements:
    - For Apple Silicon Macs - M1, M2, M3 and newer
    - For Intel Macs - Intel i5 with 8GB RAM and USB-C port

Cleaning instructions

Flamingo is designed and manufactured from high quality components. Ensuring proper care and adherence to the cleaning instructions is essential for preserving the product's lifespan.

Before cleaning, ensure that the device is disconnected from the electric outlet.

Follow the instructions below to prevent any functional or aesthetic harm to the **Flamingo**:

Cleaning of MCU and pedal:

1. Wipe the external surface of **Flamingo** with a soft, dry cloth. When necessary, use Admetec Cleaning Wipes or a soft cloth with alcohol up to 70% to gently wipe down the MCU and remote control/pedal.

   Squeeze to excess fluid out **before** using. After cleaning, dry with a soft cloth.
2. Hold the device securely while cleaning to prevent it from trauma.
3. Do not use solvents or other chemicals.
4. Avoid wiping with a chemically treated cleaning cloth.
5. Under no circumstances, attempt to open the device or insert any object inside Flamingo components.
6. DO NOT directly expose to running water and DO NOT directly spray it with any solvent and/ or submerge it in any liquid or ultrasonic cleaner.
7. DO NOT attempt to clean Flamingo batteries.
8. Avoid sterilizing in autoclaves or chemiclave, glutaraldehyde, iodophor, or any other sterilization method.

Camera and Light Source:

- Wipe the camera and light source surface using :
  - Admetec Cleaning Wipes
  - a mild soap-and-water solution with a soft cloth.
  - Soft cloth with alcohol up to 70%.
- Be sure to **squeeze** the cloth to excess fluid out **before** using.
- Gently wipe the lens of the light source and camera. Make sure to be gentle when cleaning to avoid causing scratches.

- After cleaning, dry with a soft cloth or air dry. If cleaners leave residue on the lens, use a soft, lint-free cloth to remove it.

Don't rinse light source and camera under running water.

Don't submerge in any liquid or ultrasonic cleaner.

Avoid sterilizing in autoclaves or chemiclave, glutaraldehyde, iodophor, or any other sterilization method.

Technical Specifications

Power Adapter (for USB PD charger)

Input	100-240~50/60Hz 0.5A
Output	12.0VDC 1.67A 20.0W

Battery charger (for USB PD charger)

Input voltage	12 VDC
Output voltage	4.2 VDC
Output max current	4A

Power Adapter (for AC/DC adaptor-Optional see page 3)

Input voltage	100 – 240 V AC
Output voltage	5 V DC
Output max current	4 A DC

Battery Charger (for AC/DC adaptor- Optional see page 3)

Input	5 VDC
Output voltage	4.2 VDC
Output max current	3A

Main Control Unit parameters

Internal battery voltage	3,7 V
Battery capacity	6.5 Ah
Full battery charge time	3 hrs
Average working time (with camera & light together)	> 4 hrs
Average working time (with camera or light only)	> 8 hrs
Light digital dimmer	32-step
Height:	101 mm
Width:	80 mm
Depth: (without belt clip)	28 mm
Weight: (with battery)	229 gr

Camera & light source

Camera lens	25mm IR 1/2" 5MP
Illuminance	60,000 lx
Color temperature	5750 °K
Light diameter	17 mm
Weight (without cable)	19 gr
Spotlight size diameter at 350mm	90mm
Resolution	1080p FHD
Sensor size	1/2.7 inch

Flamingo Remote Control

Voltage	3.7 V
Battery capacity	2000 mAh
Full battery charge time	3h
Size	W: 57 mm / D: 16 mm / H: 100 mm
Weight	91 g
BT	Bluetooth LE 5.3
Charger Port	USB C

Flamingo pedal (Optional- see page 3)

Voltage	3,7 V
Size	W: 52 mm / D: 98 mm / H: 25 mm
Weight	63 gr
BT	Bluetooth Model 4.2
Charger Port	USB Type C

Radio frequency

WiFi frequencies and max power	2.4G/5G 100mW/200mW
BLE frequency and max power	2.4G , 2.4mW

Storage and Transportation

Parameter	**Storage & Transportation**	**Operational**
Temperature	-40°C (-40°F)- 50°C (122°F)	10°C (50°F)- 30°C (86°F)
Pressure	500hPa-1600hPa	700hPa-1600hPa
Humidity	10%-90%, non-condensing	30%-75%, non-condensing

Charger

The power delivered by the charger must be between min 15 Watts required by the radio equipment, and max 20 Watts in order to achieve the maximum charging speed

Warranty

Admetec's warranty obligations for the **Flamingo** are limited to the terms set forth below:

Admetec warrants the Flamingo product against defects in materials and workmanship for a period of **two (2) years** from the date of original purchase ("Warranty Period").

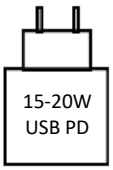
If a defect arises and a valid claim is received by Admetec within the Warranty Period, Admetec will (1) repair the product at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new, or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product.

If a defect arises and a valid claim is received by Admetec after the first ninety (90) days of the Warranty Period, a shipping and handling charge will apply to any repair or exchange of the product undertaken by Admetec.

When a product or part thereof is exchanged, any replacement item becomes your property, and the replaced item becomes Admetec's property.

Exclusions and Limitations

This warranty does not apply to: (a) to damage caused by accident, abuse, misuse, misapplication, or non-Admetec products; (b) to damage caused by service performed by anyone other than Admetec; (c) to a product or a part that has been modified without the written permission of Admetec; or (d) if any Admetec warranty label has been removed or defaced.

CE	CE Mark indicating that the device complies with Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices
	Manufacturer: Admetec Solutions Ltd. 18 Yokhanan HaSandlar St. Haifa, 3296218, Israel www.admetec.com
EC REP	**Authorized Representative:** **Obelis S.A.** Bd Général Wahis, 53, Brussels, B-1030 Belgium
CH REP	**Authorized Representative:** **Obelis Swiss GmbH** Ruessenstrasse 12 6340 Baar/ZG , Swiss
MD	Medical Device
	Caution! Consult accompanying documents
LOT	Batch number
REF	Catalog number
	Refer to Instructions Manual
	USB Battery Power Charger



If you have purchased Admetec-branded electrical or electronic products in the EU and are intending to discard these products at the end of their useful life, please do not dispose of them with your other household or municipal waste. Admetec has labeled its branded electronic products with the WEEE Symbol to alert our customers that products bearing this label should not be disposed of in a landfill or with municipal or household waste in the EU. Instead, contact the local e-waste recycling center.

The Flamingo camera, conforms to the Radio Equipment Directive (RED) 2014/53(EU). The conformity assessment procedure for the camera has been performed following the applicable parts of Article 3.

Do you need customer service?

Please contact your local distributor.

www.admetec.com

Manufacturer:
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