

## Storage

Since the product is made of corrosion-proof materials suitable for the environmental conditions foreseen for its normal use, does not require special care, however it is necessary to store it in such a way to make sure that it is protected from dust, and water to assure its hygienic conditions and protection against short circuit. Moreover, it is recommended to place the charger with out batteries.

## Use and Maintenance

When used and stored properly, ZOOM desktop Charger will serve you many years.

-  Use hospital grade plugs only.
-  Handle the charger carefully as it contains circuit for charging battery.
-  Any unauthorized modification/service is not allowed because it may cause short circuit that may damage the equipment, so always contact the authorized person or send the unit back to the manufacturer for repair.
-  Disconnect the charger from main supply prior to any maintenance.
-  Charger is not suitable for use in the presence of aflammable anesthetic mixture with air or oxygen ornitrous oxide. An explosion may result.
-  Examine the charging station for wear or damage monthly. Clean the charger once in a week according to the Cleaning Section of this manual.
-  Do not charge dry cells.
-  Please dispose of your rechargeable batteries in accordance with the legal regulation for NiMH / Li-ion. Do not dispose the batteries in normal bin.



**Disposal:** The product must not be disposed of along with other domestic waste. The users must dispose of this equipment by bringing it to a specific recycling point for electric and electronic equipment. For further information on recycling points contact the local authorities, the local recycling center or the shop where the product was purchased. If the equipment is not disposed of correctly, fines or penalties may be applied in accordance with the national legislation and regulations.

## Gima warranty conditions

Congratulations for purchasing a GIMA product. This product meets high qualitative standards both as regards the material and the production.

The warranty is valid for 12 months from the date of supply of GIMA. During the period of validity of the warranty, GIMA will repair and/or replace free of charge all the defected parts due to production reasons.

Labor costs and personnel traveling expenses and packaging not included.

All components subject to wear are not included in the warranty.

The repair or replacement performed during the warranty period shall not extend the warranty. The warranty is void in the following cases: repairs performed by unauthorized personnel or with non-original spare parts, defects caused by negligence or incorrect use. GIMA cannot be held responsible for malfunctioning on electronic devices or software due to outside agents such as: voltage changes, electro-magnetic elds, radio interferences, etc. The warranty is void if the above regulations are not observed and if the serial code (if available) has been removed, cancelled or changed.

The defected products must be returned only to the dealer the product was purchased from. Products sent to GIMA will be rejected.

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# ZOOM CHARGER

For Rechargeable Battery Handles 2.5V & 3.5V

## User manual



**ATTENTION:** The operators must carefully read and completely understand the present manual before using the product.

**REF** 31542



GIMA S.p.A.  
 Via Marconi, 1 - 20060 Gessate (MI) Italy  
 Made in Pakistan



Thank you for purchasing the ZOOM Desktop Charger. Please review this manual prior to use. It does not require any special training for its use.

Charger is designed for operation as illustrated in the IFU. No other use of product is intended or advised. Please follow the guidelines set forth in this manual for proper connections and use of the charger.

This is attractive, modular, and easy to use. The charger is connected directly to mains supply for charging battery, eliminating the need for adapters. You can charge either 3.5V/2.5V NiMH or Li-ion rechargeable batteries.

## Introduction

The Zoom Desktop Charger is an intelligent charging station based on a Micro controller accurate charging time and indication of battery like Li-ion and NiMH.



## Unpacking

Always remember that packing elements (paper, cellophane, stitches, adhesive tape, etc.) can cut and/or hurt if they are not carefully handled. They shall be removed with adequate means and shall not be left at the mercy of irresponsible persons; the same is valid for tools used to remove packages (scissors, knives, etc.)

After opening the packages, first of all it is necessary to check all piece and parts composing the product.

Check that they are all present and in perfect conditions.

## Assembling

Attached the power cord with the charger and insert it in mains supply. Green LED glows which shows main supply in ON. Now charger is ready for use.

## Operating Instructions

After connecting the power cord with the charging station and main power source, the charging station is ready to be used (the green LED indicates, "Stand By" position).

After insertion of the battery handle, the LED responsible for the respective charging slot displays the charge state (red = charging, green = charged). When charging is completed, the LED changes from red to green signifying that the charging handle is completely charged. Upon inserting the battery handle into the charging slot, the charging starts automatically. The LED displays the charging process in RED.

When the charging process is completed, the charging function changes to a trickle charge, which can be seen when the LED becomes green.

When the batteries to be charged are completely empty, a higher charging current will be used.

Thus, the charging time (LED red) will be shortened. In the trickled charge mode, a lower charging current is used, ensuring a permanent state of the cells and protection against the build up of excessive heat.) Max. Charging current up to 200mA. Max. Charging voltage up to 3.7 V.

## Specifications

Classification: Class II, Type BF Applied Part  
 Mains Supply: 100V-240V AC, 50/60 Hz  
 Fuse: 250V, 1A  
 Output Voltage: 3.5V - 4.0V   
 Charging Current: 200 mA

## Dimensions

Dimensions: 170mm (6.7") x 86mm (3.4")  
 Weight: 638.5 grams (21.59 oz)  
 Power Supply Cord: 250 cm (98.4")

## Environment

Operating: +10° C to +40° C (50° F to 104° F),  
 95% RH 500 hPa to 1060 hPa

Transport/  
 Storage: -20° C to +49° C (-2° F to 120° F),  
 95% RH 500 hPa to 1060 hPa

Life: The life of Li-ion and Ni-MH battery  
 is between 300-500 times.

Average Life: Average life cycle is 400 times, after 400 times  
 life, 70% capacity of battery will be remained.

## Battery Ratings & Charging Time

Catalogue No.	Voltage (V)	Capacity (mAh)	Type	Charging Time	Discharge Time	
					Halogen Lamp	Vacuum Lamp
31540	3.5	700	Li-ion	3h, 30min	1h	4h, 30min
34458	3.5	700	Ni-MH	3h, 30min	1h	4h, 30min
34459	3.5	1200	Ni-MH	6h	1h, 30min	4h
31541	3.5	1300	Li-ion	6h, 30min	1h, 45min	4h, 30min
34478	2.5	1600	Ni-MH	8h	2h, 30min	5h, 30min
34479	2.5	3000	Ni-MH	15h	4h, 30min	10h

### Note

Discharge Time mentioned in table is for continuous operation. Since diagnostic handle (instrument containing rechargeable battery) is not used continuously for more than 10 minutes discharge time will prolong.

## Precautions



The unit shall be handled carefully

The product shall be used by qualified personnel only.



Do not use the equipment in case it is damaged. Apply to your retailer. Avoid precarious repairs. Repairs shall be carried out with original spare parts only, which shall be installed according to the intended use.



When placing or replacing the handles in the charging compartments, ensure that the internal contacts in the compartments are clean and that the instrument is switched off.



Do not short the charging pins, it can burn the charging circuit or cause fire. Carefully handle the charger and immediately replace in case of any damage. Avoid precarious repairs. Repairs shall be carried out with original spare parts only, which shall be installed according to the intended use. Protect charging pins against short circuiting.

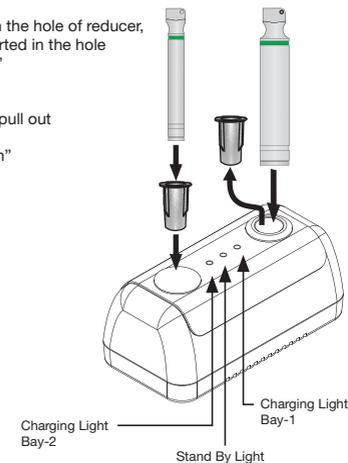
## Use of Small and Medium Handle

### Small Handle

Insert small handle in the hole of reducer, which is already inserted in the hole of "Charging Station"

### Medium Handle

For medium handle, pull out the reducer from the "Charging Station"



## Cleaning

The Outside of the charging station can be cleaned with a damp, Soft and lint free cloth to disinfect the unit. Dipping the unit into solutions or cleaning agents is not allowed! While cleaning, make sure that mains supply is Off and remove the power cord. Periodically check the charging station, making sure that no sign of corrosion or oxidation and dust is present, in case they are present, it is highly recommended to clean the charger.



Do not use abrasive Ultrasonic cleaners, alcohol or other chemicals to clean the unit as this may degrade the outside surface of the charger, as they will scratch the surface.



Autoclaving and Flash sterilization the charger result in severe electrical damages.