

UDC-3X Spec. Sheet

Model Number : UDC-3X

Description : LCD All Chemistry Fast Charger (with 4-Level LCD Gauge)

Contents : Charger Unit, AC Adapter, 4 Adapter Plates, Car Adapter cord

Input : 12-18 VAC or 12-24 VDC, Min. 10W

Output : Max. 900 mA

Discharge Current : Approx. 180 mA

Charge Mode : Negative Delta V for Ni-Cd/Ni-MH batteries.

Constant Current + Constant Voltage for Li-Ion and batteries.

Charge Time :

Approx. 110 minutes for a 6V/1500mAh Ni-MH battery.

Approx. 155 minutes for a SONY NP-F550 7.2V/1500mAh Li-Ion battery.

LCD Indicator : 4-Level (25%, 50%, 75%, 100%) Gauge to indicate charge status. No power level icon indicates faulty battery.

Note: slight hissing sound due to switching circuitry is normal.

Trouble Shooting

If the LCD status indicator does not turn on:

- * Confirm the AC or cigarette adapter is properly connected.
- * Confirm that wall outlet is working. Clean battery/charger contacts.
- * Check fuse in car cord (un-screw tip of cigarette lighter adapter).
- * Confirm the battery is already fully charged.
- * Confirm the battery mounted incorrectly; remove and re-mount battery. Over-discharged batteries can take up to 20 minutes to go into charge mode.

Safety and Maintenance

DO NOT use charger inside a drawer, closed cabinet, on a carpet or cover with a cloth. The charger will become slightly warm in normal use, but if contained, heat may damage the charger and battery pack.

DO NOT attempt to open the charger, there are no serviceable parts. Doing so will void the warranty.

DO NOT allow moisture of any kind to come in contact with the charger. NEVER IMMERSE IN LIQUID!

DO NOT store where it may be exposed to extreme temperatures; avoid placing in direct sunlight. High temperatures can shorten the life of electronic devices, damage batteries and warp metal or plastics.

DO NOT short circuit the output terminal or contacts.

DO NOT drop the unit, a jolt can cause permanent damage and is not covered by the warranty. If the charger must be cleaned, be sure it is unplugged. Wipe the unit with a clean cloth, lightly dampened with mild detergent. Use a clean cloth, lightly dampened with rubbing alcohol to clean the metal contacts.

Battery Chart

Brand Volt	Batt. type	Model Number	Tray
Canon 6V	NiCad/NiMH	BP-E77/711/714/718/722/729	6
Canon 7.2V	Lithium Ion	BP-80/85	A
Hitachi 6V	NiCad/NiMH	VM-BP82/82A/83/84/84A	6
Hitachi 7.2V	Lithium Ion	VM-BPL13A/27A/30A/60A	A
JVC 6V	NiCad/NiMH	BN-V11U/12U/14U/140U/22U/50U/60U	6
		BN-V20U/25U	6
JVC 7.2V	Lithium Ion	BN-V607/615U	A
JVC 7.2V	Lithium Ion	BN-V812/814U	A
Panasonic 7.2V	Lithium Ion	VW-VBD1/PV-BP5/AG-BP25	A
Panasonic 6V	NiCad/NiMH	PV-BP15/17/18/ VW-VBS1E/S2E	6
RCA 7.2V	Lithium Ion	BB-55L/65L/85L	A
RCA 6V	NiCad/NiMH	BB-45/75L/060/120/FB120/1260	6
RCA 3.6V	Lithium Ion	BB-75	2
Sharp 6V	NiCad/NiMH	BT-80	6
Sharp 3.6V	Lithium Ion	BT-L1/2/11/12	2
SONY 6V	NiCad/NiMH	NP-55/66/67/68/77/78/98	6
SONY 3.6V	Lithium Ion	NP-FC10/11	2
SONY 3.6V	Lithium Ion	NP-F10/20/30/FS11/21/3	2
SONY 7.2V	Lithium Ion	NP-FF50/70	A
SONY 7.2V	Lithium Ion	NP-F100/200/300	A
SONY 7.2V	Lithium Ion	NP-F330/530/550/730/730H/750/750	A
		SP/930/950/960	A
SONY 7.2V	Lithium Ion	NP-FM30/50/70/90/91/QM50/70/90	A
AA 1.2V	NiCad/NiMH	Minolta, Olympus, Nikon and others.	AA/AAA
AAA 1.2V	NiCad/NiMH	Consult your owner's manual.	AA/AAA

If your battery is not listed or does not fit on the trays included, contact Sima Products at www.simacorp.com

Warranty Statement

Sima Products Corporation ("Company") warrants that if this product proves to be defective to the original purchaser in material or workmanship within 90 days from the date of original retail purchase, the company will, at the company's option, either repair or replace same without charge (but no cash refund will be made).

To enforce this warranty, ship your unit, freight pre-paid, including reasonable proof of date and place of purchase and description of problem to:

Attn: Customer Service
c/o Sima Products Corporation
140 Pennsylvania Ave. Bldg #5
Oakmont, PA 15139

To receive special offers and discounts, register your product online at www.simacorp.com or call 800-345-7462

Exclusions: This Limited Warranty covers all defects in material and workmanship in the product, except damage resulting from accident, misuse, abuse, attempted repair by anyone other than the Company, neglect or from their normal and ordinary use of the product. The Company accepts no liabilities or obligations for consequential or incidental damage arising out of or in connection with the use or performance of the product. The Limited Warranty provides you with specific legal rights, you may have additional legal rights provided to you under the laws of your state or federal laws.

Universal Battery Charger for Digital Cameras and Camcorders

Model UDC-3X

Works with these brand name products:
Sony RCA
Panasonic JVC
Canon Sharp
Minolta Olympus
& more!



sima.

Register online at www.simacorp.com

Includes 4 adapter trays to charge
Lithium - ion
Ni-Cad
NiMH
AA & AAA batteries

Includes AC & DC adapters

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PN21722

Introduction

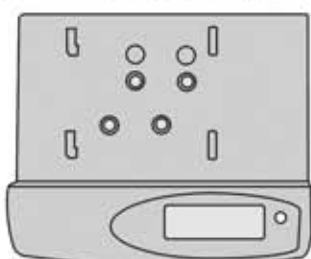
Congratulations on buying the Sima UDC-3X, a universal battery charger for digital camera and camcorder batteries. Using the AC or DC adapters included, you can quickly and easily charge your AA/AAA, NiCad, NiMH or lithium ion batteries at home or in the car. This package includes: UDC base unit, AA/AAA tray, Tray A, Tray 6 & Tray 2, 120V AC adapter, 12V DC car adapter and this instruction manual.

Features :

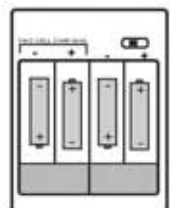
1. Made with Intelligent Microprocessor and Universal Circuitry to work with all 3.6V-12V NiCad, Ni-MH & Li-Ion batteries properly.
2. Discharge capability to eliminate the memory effect of Ni-Cd/Ni-MH batteries.
3. Over Voltage, Short Circuit Protection and Back-up Timer for charge-safety.
4. 4-Level (25%, 50%, 75% & 100%) LCD Fuel Gauge to indicate Discharge/Charge/Fully Charged status.
5. Interchangeable adapter plates to fit virtually all camcorder/digital camera batteries.
6. Capable of detecting and indicating faulty batteries automatically.
7. Flexible to use with Household AC or Car DC power source.

Dimensions : 3.6" (L) x 3.1" (W) x 1.2" (H)

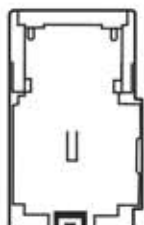
Base Unit and Trays



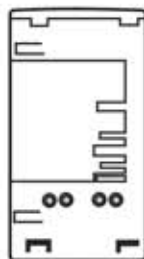
UDC -3X Base Unit



Tray AA/AAA



Tray A



Tray 6

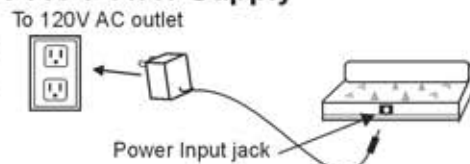


Tray 2

Tray A = 7.2 lithium ion
Tray 2 = 3.6 lithium ion
Tray 6 = NiCad & NiMH
Tray AA/AA - rechargeable non-alkaline AA & AAA

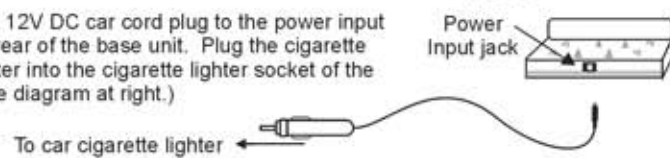
How to Connect 120V AC Power Supply

Connect the AC adapter plug to the Power Input jack on the rear of the base unit. Plug the AC adapter into any standard 120V AC household outlet. (See diagram at right.)



How to Connect 12V DC Car Power Supply

Connect the 12V DC car cord plug to the power input jack on the rear of the base unit. Plug the cigarette lighter adapter into the cigarette lighter socket of the vehicle. (See diagram at right.)



When power is supplied the display will show

Mounting the Adapter Plates

Different battery models require the use of different adapter trays (AA/AAA, A, 6 or 2). Consult the battery chart in this manual to determine which adapter plate your camera or camcorder battery requires.

To install the adapter trays

Step 1. Place the adapter tray onto the base unit as shown in Fig 1, below. Be sure to align the hooks on the base with the slots on the bottom of the tray.

Fig 1

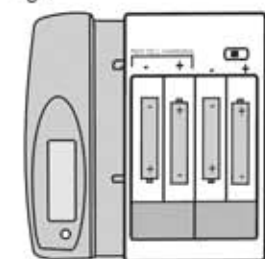
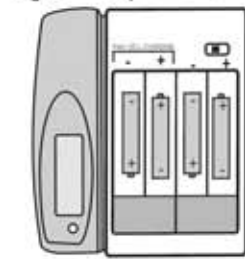


Fig 2

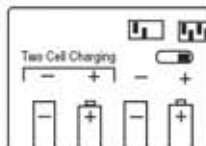


Step 2. Push the tray straight down on to the base and slide to the left.

To remove the tray, slide it to the right and lift from the base.

For AA/AAA - The AA/AAA tray has a 2 or 4 battery switch located on the top right corner. When set for 2, it only charges the 2 slots on the left hand side. Always charge AA/AAA batteries in matched pairs (either 2 or 4 of the same kind.) Be sure to follow polarity markings on the tray. Charge NiCad, NiMH & AA/AAA batteries only.

CAUTION! NEVER CHARGE ANY TYPE OF ALKALINE BATTERIES!



Mounting the Batteries

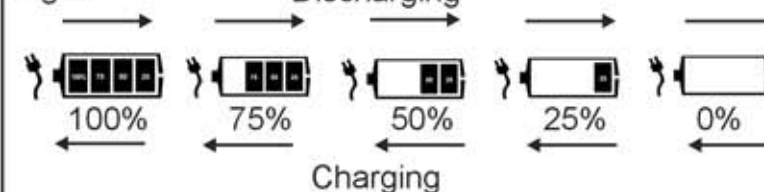
To install the battery - Install the battery onto the charger tray the same way you install the battery onto your camcorder. Align the contacts on your battery with the appropriate contacts on the charger tray. Follow the guides on the battery and the charger. If you cannot easily fit the battery onto the tray, do not force into place. Realign the guides and try again. The UDC-3X will automatically detect the battery type and voltage from the tray.



Discharging the Battery

To maximize the full power of your NiCad and NiMH batteries, we recommend discharging before recharging. To discharge, mount the battery on the tray and press the Discharge (DIS) button. The LCD indicator will illustrate the discharging process by flashing sequentially from 100% to 0% as shown in Fig. 3 below. When discharging is complete, the battery will automatically begin to recharge and the LCD indicator will flash sequentially from 0% to 100%. Note: You can manually switch to the Charge mode by pressing the DIS button for 2 sec. Lith-ion batteries do not require discharging.

Fig.3



Charging the Battery

As soon as the battery is properly mounted, charging begins as indicated by the charging sequence on the LCD display. The current charge status icon of the battery will appear as steady, while the next charge level icon will blink. When the battery is fully charged, all four of the charge status icons will appear steady. At this point, the battery can be removed for use. It is recommended that you leave the battery connected to the charger for another 30 minutes to ensure a full or "topped off" charge.

Battery Notes

- * All batteries discharge themselves over time. Charge your battery at least once every two months. Remove the battery from your camcorder and the UDC-3X when not in use.
- * The base, battery and AC adapter will get warm while in use.
- * Keep the battery terminals and metal contacts on the charger clean by wiping with a clean, dry cloth.