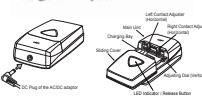


New Universal Charger KB04 - Manual - Front



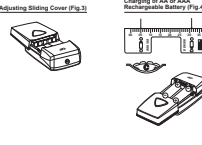
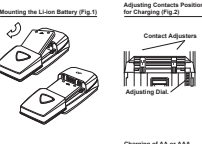
Instruction Manual



Model	AA	AAA	AA/AAA	AA/AAA
Charging Time (NiMH rechargeable battery)	12h	12h	12h	12h
Charging Time (Li-ion battery pack)	12h	12h	12h	12h

Specification	Value
Input	100-240V
Output	5V DC
Output Current	1000mA (at 5.0V Load Regulated)
Charging Current	100mA (at 5.0V Load Regulated)
Charging Voltage	1.4V (AA), 1.2V (AAA)
Charging Temperature	0°C (32°F) - 40°C (104°F)

ALIGNMENT GUIDES & BATTERY POSITION



DSC / Camcorder Battery Compatible List

Brand	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
CAMCO	SP-01	SP-02	SP-03	SP-04	SP-05	SP-06
	SP-07	SP-08	SP-09	SP-10	SP-11	SP-12
	SP-13	SP-14	SP-15	SP-16	SP-17	SP-18
	SP-19	SP-20	SP-21	SP-22	SP-23	SP-24
	SP-25	SP-26	SP-27	SP-28	SP-29	SP-30
	SP-31	SP-32	SP-33	SP-34	SP-35	SP-36
	SP-37	SP-38	SP-39	SP-40	SP-41	SP-42
	SP-43	SP-44	SP-45	SP-46	SP-47	SP-48
	SP-49	SP-50	SP-51	SP-52	SP-53	SP-54
	SP-55	SP-56	SP-57	SP-58	SP-59	SP-60
EP	VL01	VL02	VL03	VL04	VL05	VL06
	VL07	VL08	VL09	VL10	VL11	VL12
	VL13	VL14	VL15	VL16	VL17	VL18
	VL19	VL20	VL21	VL22	VL23	VL24
	VL25	VL26	VL27	VL28	VL29	VL30
	VL31	VL32	VL33	VL34	VL35	VL36
	VL37	VL38	VL39	VL40	VL41	VL42
	VL43	VL44	VL45	VL46	VL47	VL48
	VL49	VL50	VL51	VL52	VL53	VL54
	VL55	VL56	VL57	VL58	VL59	VL60
MITSUBISHI	MR10	MR11	MR12	MR13	MR14	MR15
	MR16	MR17	MR18	MR19	MR20	MR21
	MR22	MR23	MR24	MR25	MR26	MR27
	MR28	MR29	MR30	MR31	MR32	MR33
	MR34	MR35	MR36	MR37	MR38	MR39
	MR40	MR41	MR42	MR43	MR44	MR45
	MR46	MR47	MR48	MR49	MR50	MR51
	MR52	MR53	MR54	MR55	MR56	MR57
	MR58	MR59	MR60	MR61	MR62	MR63
	MR64	MR65	MR66	MR67	MR68	MR69
JVC	BV101	BV102	BV103	BV104	BV105	BV106
	BV107	BV108	BV109	BV110	BV111	BV112
	BV113	BV114	BV115	BV116	BV117	BV118
	BV119	BV120	BV121	BV122	BV123	BV124
	BV125	BV126	BV127	BV128	BV129	BV130
	BV131	BV132	BV133	BV134	BV135	BV136
	BV137	BV138	BV139	BV140	BV141	BV142
	BV143	BV144	BV145	BV146	BV147	BV148
	BV149	BV150	BV151	BV152	BV153	BV154
	BV155	BV156	BV157	BV158	BV159	BV160
SONY	EC101	EC102	EC103	EC104	EC105	EC106
	EC107	EC108	EC109	EC110	EC111	EC112
	EC113	EC114	EC115	EC116	EC117	EC118
	EC119	EC120	EC121	EC122	EC123	EC124
	EC125	EC126	EC127	EC128	EC129	EC130
	EC131	EC132	EC133	EC134	EC135	EC136
	EC137	EC138	EC139	EC140	EC141	EC142
	EC143	EC144	EC145	EC146	EC147	EC148
	EC149	EC150	EC151	EC152	EC153	EC154
	EC155	EC156	EC157	EC158	EC159	EC160
NIMH	KL101	KL102	KL103	KL104	KL105	KL106
	KL107	KL108	KL109	KL110	KL111	KL112
	KL113	KL114	KL115	KL116	KL117	KL118
	KL119	KL120	KL121	KL122	KL123	KL124
	KL125	KL126	KL127	KL128	KL129	KL130
	KL131	KL132	KL133	KL134	KL135	KL136
	KL137	KL138	KL139	KL140	KL141	KL142
	KL143	KL144	KL145	KL146	KL147	KL148
	KL149	KL150	KL151	KL152	KL153	KL154
	KL155	KL156	KL157	KL158	KL159	KL160

Universal charger for Li-ion NiMH batteries

Features:
- Universal charging for NiMH and Li-ion batteries.
- Intelligent charging algorithm.
- Overcharge protection.
- Short circuit protection.
- Temperature compensation.
- LED indicator for charging status.

Operating instructions:
1. Turn the sliding cover to the position for the battery type.
2. Insert the battery into the charger.
3. Press the power button to start charging.
4. The LED indicator will show the charging status.

Li-ion NiMH rechargeable battery

Caution:
- Do not touch the terminals.
- Do not use damaged batteries.
- Do not use batteries with different capacities.
- Do not use batteries with different brands.

Precautions:
- Do not use the charger in a humid environment.
- Do not use the charger near water.
- Do not use the charger with flammable liquids.

Universal charger for Li-ion NiMH batteries

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LED Indicators

Indicator	Meaning
Power	Power is on
Charge	Charging in progress
Full	Charging complete
Error	Charging error

Charging Time (NiMH rechargeable battery)

Model	AA	AAA	AA/AAA	AA/AAA
Charging Time	12h	12h	12h	12h

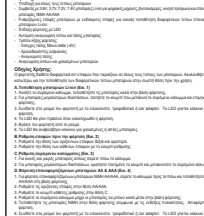
Charging Time (Li-ion battery pack)

Model	AA	AAA	AA/AAA	AA/AAA
Charging Time	12h	12h	12h	12h

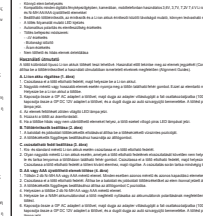
Specifications

Specification	Value
Input	100-240V
Output	5V DC
Output Current	1000mA (at 5.0V Load Regulated)
Charging Current	100mA (at 5.0V Load Regulated)
Charging Voltage	1.4V (AA), 1.2V (AAA)
Charging Temperature	0°C (32°F) - 40°C (104°F)

Alignment Guides & Battery Position



Adjusting Sliding Cover



Charging Time (NiMH rechargeable battery)

Model	AA	AAA	AA/AAA	AA/AAA
Charging Time	12h	12h	12h	12h

Charging Time (Li-ion battery pack)

Model	AA	AAA	AA/AAA	AA/AAA
Charging Time	12h	12h	12h	12h

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