



# MINIATURE DURO-PACK® BATTERY

For ARRIFLEX 16S & 16S/B CAMERAS

*Miniature Duro-Pack Battery mounted by means of an adapter on the front accessory shoe of the Arriflex 16S/B*







# MINIATURE DURO-PACK® BATTERY

The ARRIFLEX 16S Camera is the handiest, most useful, 16mm, professional camera ever made. Now, with the new, miniature Duro-Pack Batteries these cameras are handier and more adaptable than ever.

Most other nickel-cadmium batteries available for 16S cameras are either off-the-shoulder packs or battery belts. Whichever form they take, they are always a heavy pack, separate from the camera itself. And because they are separate, they always require a substantial power cable connection between the camera and the battery.

The lightweight Duro-Pack mounts right on the camera. The camera and battery become a single working combination. There is no unnecessary bulk or weight to load the cameraman down. Neither is there a long, dangling cable to catch on branches in the brush, to loop over unlucky bystanders; there's nothing to get in the way. With the Miniature Duro-Pack, the cameraman is freer than ever before to move quickly from shot to shot—to move in - or out - to get the pictorial variety that adds so much to the impact of the pictures on the screen.

## PERTINENT FACTS FOR PRACTICAL CAMERAMEN

The new Miniature Duro-Pack Battery utilizes high capacity, rechargable, nickel-cadmium, C-size cells. The new Duro-Pack makes up into an exceptionally small, lightweight power pack for ARRIFLEX 16S Cameras. A fully charged Miniature Duro-Pack, at 68°F, estimated conservatively will run the ARRIFLEX 16S, with 100 ft. spools for 1000 ft. of film. The same pack will run the 16S with 400 ft. magazine for 800 feet.

The batteries are well constructed, sturdy power packs, made to stand up to the hardest location use. They



*The Miniature Duro-Pack Battery mounted on the beam of the Arriflex 16S matte box by means of an adapter. (Front cover picture shows battery mounted on camera accessory shoe.)*

are sealed in high impact-resistant plastic cases for maximum safety and reliability. Battery contacts are gold plated to minimize the dangers of corrosion and faulty connections.

The batteries are as practical and as handy as they can be made. The

mounted Pack does not extend beyond the overall dimensions of the ARRIFLEX 16S, so there are no awkward bulges, and camera balance is actually enhanced. (See illustrations). The camera, with Battery mounted, fits into its regular carrying case without modifications.

## MINIATURE DURO-PACK SPECIFICATIONS

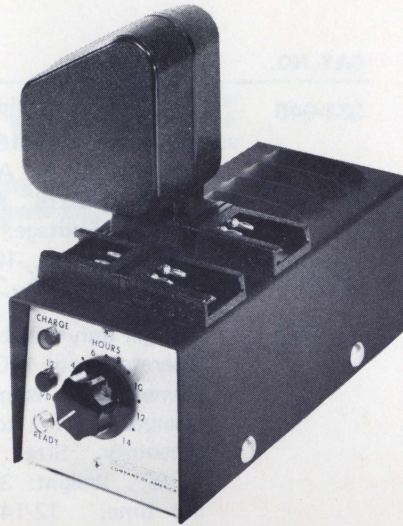
Size	3-5/8" L x 2-1/8" W x 3" H
Weight	20 ounces
Case	Sealed; high impact-resistant plastic.
Camera Mounting	By means of adapters on ARRIFLEX 16S accessory shoe or on matte box beam. (See illustrations).
Power Capacity	1.8 Ampere-Hour
Film Capacity	At 68°F, ARRIFLEX 16S w/100 ft. spools, 1000 ft.; ARRIFLEX 16S w/400 ft. magazine, 800 ft.
Voltage	8 volts nominal
Recharge Time	14 hours maximum
Type	Nickel-Cadmium, high-capacity, sealed cells.
Guarantee	The Miniature Duro-Pack Battery and its separate Charger are covered by a one year guarantee.



# DURO-PACK® BATTERY CHARGER

The Charger for the miniature Duro-Packs is designed to make the most of the advantages inherent in the batteries. Since the batteries are so small, there will be many cases where the cameraman will want and need more than one. The Charger, therefore, is built to accept and to recharge up to as many as four batteries simultaneously.

Some degree of self-discharge is common to all batteries. In most other systems, the result is a loss of working capacity and efficiency. Not so with the Duro-Pack Battery-Charger system. The Charger is supplied with a built-in Timer and dual-rate recharging circuits. When the Timer is set and operating, the recharge rate is about 200 ma, — just enough to assure full charge of a fully discharged battery, within 12 - 14 hours or less safely and surely. When the Timer interval is completed, the Charger switches over to a low, trickle charge rate of approximately 40ma. This rate is just sufficient to compensate for normal self-discharge and serves to keep the battery charged to 100% of capacity. Batteries should be left on trickle charge indefinitely, right up to the day that they are to be used. This way, there is never any doubt about the state of the charge. Of course, it is wise to be prepared for the small variations in running time due to ambient temperatures, load variations, etc. Most important, allowance must be made for low temperature operation since all batteries, at below freezing temperatures, temporarily lose some working capacity. The Charger is normally powered from 110-120 volt, 60 cycle, AC household power lines. But, to make the battery system as useful as possible, the Charger is designed to operate from 12 volt automobile and boat batteries also. A special cable, supplied with the Charger connects to the cigarette lighter socket. The cable eliminates the need for any special adjustments and/or switches. It simply plugs into the car or boat 12 volt battery system.



*The Duro-Pack Special Charger shown with a single battery on charge. The Charger will accept and recharge as many as 4 Miniature Duro-Pack Batteries at the same time.*

So that the cameraman may know as much as possible about what is happening during recharge, the Duro-Pack Charger has three separate pilot lights to indicate the three different functioning modes.

## A. Full Current Charge Pilot Light

This Light indicates that the battery is being charged at the full current rate. (about 200 ma.) and will continue at this rate for the entire interval set on the Timer. This Pilot light works only when the Charger is powered from 110-120 volt 60 cycle AC lines.

## B. Trickle Charge Pilot Light

This indicator shows that the Timer has completed its preset interval and that the battery is now on the low trickle charge rate, (about 40ma.) . This Light operates only when the Charger is powered from 110-120 volt 60 cycle AC lines. For highest efficiency, it is recommended that the battery be left on the trickle charge until it is to be used.

## C. 12-Volt, DC Full Current Light

This Pilot Light operates only when the Charger is working from a car or boat battery. The Timer of the Charger is inoperative. The battery is recharged at the full-current charge rate only. (Approx. 170-200 ma.) The special cable for this operation is terminated to fit the cigarette lighter socket only.

## CHARGER SPECIFICATIONS

Size . . . . .	8-3/4"L x 3-3/8"W x 3-5/8"H
Weight . . . . .	3½ pounds.
Power Requirements . . . . .	Charger may be operated from 110-120 volt, 60 cycle household power lines, or from cigarette lighter outlet, 12 Volt car or boat. Power consumption, from 110-120 AC lines, up to 30 watts.
Capacity . . . . .	Will charge as few as one or as many as four miniature Duro-Packs simultaneously.
Electrical rating . . . . .	Heavy duty components are used throughout for long life and trouble free operation. Charger may be left "ON" indefinitely. Contacts are gold plated for protection against corrosion and to make low resistance connection to batteries. All resistors rectifiers and diodes are mounted on printed circuit boards for best protection against vibration and shock, to provide utmost reliability.



## PRICE SCHEDULE

CAT. NO.	DESCRIPTION	USER NET
331-045	Miniature Duro Pack Battery only, for ARRIFLEX 16S Cameras. 8 volts nominal, 1.8 AH capacity. Size: 3-5/8" x 2-1/8" x 3". Weight: 20 ounces. Footage: Approx. 16S with 100 ft. spools, 1000 ft.; 16S with 400 ft. magazine, 800 feet.	\$ 98.00
331-053	Charger only for above Batteries. Operates from 110-120 volt, 60 cycle power lines or from 12 volt car battery. Charges from 1 to 4 batteries simultaneously. Size: 8-3/4" x 3-5/8" x 3-3/8". Weight: 3-1/2 pounds. Charging time: 12-14 hours maximum.	\$134.00
331-046	Adapter only, for mounting battery in accessory shoe, ARRIFLEX 16S camera only.	\$ 18.00
331-047	Adapter only, for mounting battery in Matte Box Beam, ARRIFLEX 16S cameras only.	\$ 18.75

Prices and specifications subject to change without notice.

Miniature Duro-Pack Batteries & accessories are manufactured in the U.S.A.

**ARRIFLEX**  
**COMPANY OF AMERICA**

25-20 Brooklyn-Queens Expressway West, Woodside, N. Y. 11377  
WEST COAST: 1011 Chestnut Street Burbank, California 91502

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