

# PHASE | Anton Bauer:

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# NP-F774

L-Series 7.2V battery

The Anton/Bauer NP-F774 is a 7.2V, 4400mAh (30Wh) Li-Ion battery that provides long, reliable run-times and powers most Sony “L” series type cameras. It is also great for powering 7.2V accessories, such as field monitors and on-camera lighting.

- 4400mAh (30Wh)
- Reliable and long-lasting batteries
- Excellent run-times
- Fast charging
- To be used with Sony cameras that need “L” Series type batteries
- Battery solution for the SmallHD DP7-PRO Sony-L series field monitors
- Battery solution for Litepanels and Manfrotto on-camera lighting: Lykos, Croma 2, Micropro 2 and Spectra 2



## NP-F774

**SKU:** 8675-0110

- |                                |                                    |
|--------------------------------|------------------------------------|
| • Maximum Output Voltage: 7.4V | • Size: 2.78 x 1.50 x 1.56 in.     |
| • Mean Output Voltage: DC 7.2V | (7.06 x 3.81 x 3.96 cm)            |
| • Capacity: 4400 mAh / 30Wh    | • Weight (Approx.): 7.2 oz. (204g) |
| • Battery Type: Li-Ion         | • Warranty: One year or 500 cycles |

# NP-F976

L- Series 7.2V battery

The Anton/Bauer NP-F976 is a 7.2V, 6600mAh (47Wh) Li-Ion battery that provides long, reliable run-times and powers most Sony “L” series type cameras. It is also great for powering 7.2V accessories, such as field monitors and on-camera lighting.

- 6600mAh (47Wh)
- Reliable and long-lasting batteries
- Excellent run-times
- Fast charging
- To be used with Sony cameras that need “L” Series type batteries
- Battery solution for the SmallHD DP7-PRO Sony-L series field monitors
- Battery solution for Litepanels and Manfrotto on-camera lighting: Lykos, Croma 2, Micropro 2 and Spectra 2



## NP-F976

**SKU:** 8675-0109

- Maximum Output Voltage: DC 8.4V
- Mean Output Voltage: DC 7.2V
- Capacity: 6600 mAh / 47Wh
- Battery Type: Li-Ion
- Size: 2.78 x 1.50x 2.37 in. (7.06 x 3.81 x 6.01 cm)
- Weight (Approx.): 9.6 oz. (272g)
- Warranty: One year or 500 cycles

# DIGITAL BATTERY

## Lithium-Ion Digital Battery Series

As cameras and technology have evolved into the digital age, so have their power use profiles. The Digital Battery Series meets the unique needs of the digital world, while providing top-tier levels of safety, performance and reliability in a sleek design.

Delivered with a modern, ergonomic, mold-breaking look, the new battery contains a proprietary digital filter that increases run-time and lengthens life cycle, eliminating the negative effects incurred when running digital technology with traditional battery circuitry. All with Anton/Bauer's signature Gold Mount connector and balanced, high-quality cells that deliver a long performance life.



- G90: 90 Wh (nominal 89 Wh)
- Perfect battery when weight counts. Also good for camera stabilization systems.
- PowerTap®: Ideal for powering camera accessories such as monitors, lights, wireless receivers or any other 14V accessory.
- Weight: 2.4 lbs. (1.13 kg)
- Size: 6.5 x 4.4 x 2.7 in. (16.51 x 11.18 x 6.86) cm



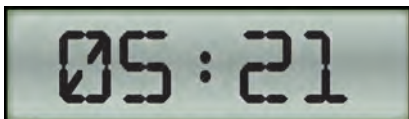
- G150: 150 Wh (nominal 156 Wh)
- For use with power-hungry cameras and to power camera accessories.
- PowerTap®: Ideal for powering camera accessories such as monitors, lights, wireless receivers or any other 14V accessory.
- Weight: 3.3 lbs. (1.52 kg)
- Size: 6.5 x 4.4 x 3.3 in. (16.51 x 11.18 x 8.38) cm



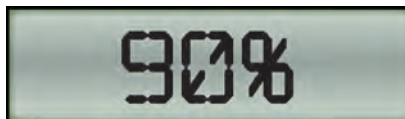
- G190: 190 Wh (nominal 194 Wh)\*
- For use with power-hungry cameras and to power camera accessories.
- PowerTap®: Ideal for powering camera accessories such as monitors, lights, wireless receivers or any other 14V accessory.
- Weight: 3.5 lbs. (1.62 kg)
- Size: 6.5 x 4.4 x 3.3 in. (16.51 x 11.18 x 8.38) cm

## Improved LCD Display

The Digital Battery Series utilizes constant calibration to deliver a truly accurate power status and features an easy to read Fuel Gauge with a multi-segment display.



When the battery is attached to a load, such as a camera or a light, it will conveniently report the remaining run-time for that load in hours and minutes, allowing the user to effortlessly track usage.



When the battery is not attached to a load, it reflects the state of the battery charge as a percentage of capacity.

## All Digital Series Batteries carry the MAXX II Warranty\*\*

\*Travel Restriction Apply: For information on travel/shipping regulations, please refer to our website: [www.antonbauer.com](http://www.antonbauer.com). All Anton/Bauer Li-Ion batteries comply with UN Manual of Tests and Criteria.

\*\*2 year conditional warranty or 1000 charge cycles. Refer to the product owner's manual for complete warranty terms and conditions.

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# DIGITAL BATTERY

## Lithium-Ion V-Mount Digital Battery Series

The Anton/Bauer V-Mount Digital Battery Series is uniquely optimized for today's cameras and the auxiliary equipment being powered around a camera

A high quality V-Mount rechargeable battery line for professionals powered by Anton/Bauer technology. Current batteries in market have high frequency "ringing" on start up and during operation reducing battery performance. Anton/Bauer's new line of 'Digital' Batteries are designed to prevent this, allowing the battery to have a longer life – in both cycles and time per charge. With significant improvements made to the traditional V-Mount design, setting a new standard for the industry.



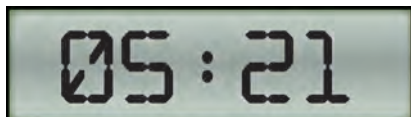
- V90: 90 Wh (nominal 89 Wh)
- Perfect battery when weight counts. Also good for camera stabilization systems.
- PowerTap®: Ideal for powering camera accessories such as monitors, lights, wireless receivers or any other 14V accessory.
- Weight: 2.4 lbs. (1.13 kg)
- Size: 6.5 x 4.4 x 2.7 in. (16.51 x 11.18 x 6.86) cm

- V150: 150 Wh (nominal 156 Wh)
- For use with power-hungry cameras and to power camera accessories.
- PowerTap®: Ideal for powering camera accessories such as monitors, lights, wireless receivers or any other 14V accessory.
- Weight: 3.3 lbs. (1.52 kg)
- Size: 6.5 x 4.4 x 3.3 in. (16.51 x 11.18 x 8.38) cm

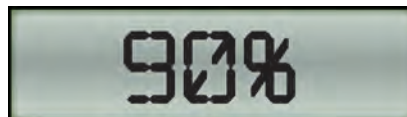
- V190: 190 Wh (nominal 194 Wh)\*
- For use with power-hungry cameras and to power camera accessories.
- PowerTap®: Ideal for powering camera accessories such as monitors, lights, wireless receivers or any other 14V accessory.
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## Improved LCD Display

The Digital Battery Series utilizes constant calibration to deliver a truly accurate power status and features an easy to read Fuel Gauge with a multi-segment display.



When the battery is attached to a load, such as a camera or a light, it will conveniently report the remaining run-time for that load in hours and minutes, allowing the user to effortlessly track usage.



When the battery is not attached to a load, it reflects the state of the battery charge as a percentage of capacity.

## All Digital Series Batteries carry the MAXX II Warranty\*\*

\*Travel Restriction Apply: For information on travel/shipping regulations, please refer to our website: [www.antonbauer.com](http://www.antonbauer.com). All Anton/Bauer Li-Ion batteries comply with UN Manual of Tests and Criteria.

\*\*2 year conditional warranty or 1000 charge cycles. Refer to the product owner's manual for complete warranty terms and conditions.





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*One World. One Smart Choice.™*

# HyTRON®

Nickel Metal Hydride Battery Owner's Manual



**LOGIC SERIES®**

7595-0424  
Revision A

READ AND UNDERSTAND THIS MANUAL BEFORE OPERATION

The HyTRON® Logic Series® battery is designed to be charged with current InterActive® chargers. Older model InterActive MP4D, Quad, Lifesaver Dual, ABC800 cannot charge these batteries.

Do not attempt to charge on non-InterActive chargers or chargers not manufactured by Anton/Bauer, Inc. Safety circuits in the battery will prevent charging on any charger, which cannot properly address the battery communication.

Precautions and handling instructions contained in this manual should be strictly adhered to for safe and reliable operation.

Contact Anton/Bauer Field Support at (203) 925-4991 or support@antonbauer.com with any questions regarding this product.



INTRODUCTION

The development of the HyTRON battery has been made possible through the incorporation of InterActive technology with the latest Nickel Metal Hydride (NiMH) cell formulations. HyTRON batteries feature an on-board “fuel computer” to monitor energy put into and taken out of the battery, as well as critical operating characteristics and conditions. This data is communicated to the InterActive charger to optimize safe and reliable performance.

Remaining battery capacity information is available to the operator by means of the on-board RealTime® LCD and in the viewfinder of most broadcast and professional camcorders. The patented interface from the battery to the camera viewfinder is factory standard equipment on most camera/camcorder models from all major camera manufacturers.

Anton/Bauer InterActive chargers were designed in anticipation of new cell technologies, so chargers in the field only require an update (software or firmware available separately depending on model) to effectively address new battery systems. This upward and downward compatibility allows Anton/Bauer to introduce new high performance cell technologies safely and seamlessly into existing inventories.

The HyTRON battery will automatically identify itself to the InterActive charger, activating the proper charge routine(s) necessary to effectively utilize this technology.



# FEATURES

1. **Microprocessor Fuel Computer** - Accurately monitors the energy in the battery which take into account battery age, self discharge, charge/discharge rate, operating conditions and previously experienced charge/discharge cycles. The battery constantly “learns” its precise state of charge and remaining capacity. This data is automatically transmitted to an InterActive charger.
2. **RealTime® ‘LCD’** – This exclusive Anton/Bauer feature simultaneously displays both the remaining run-time and the percentage of remaining battery capacity at all times. No special adapters or set up is required. (see complete explanation page 3)
3. **Viewfinder Fuel Gauge Display** - Cameras which include the Anton/Bauer InterActive viewfinder feature connect with the batteries “Fuel Computer” to display an accurate “Fuel Gauge” of remaining battery capacity in the viewfinder. Reference your camera/camcorders owner’s manual for proper menu settings.
4. **Impac® Case design** - High impact case construction protects the cells from damage.
5. **Gold Mount® Interface** - The patented Gold Mount connector is compatible with all Anton/Bauer mounts and accessories.
6. **Individual Computer Testing** – All Anton/Bauer batteries are individually tested to assure optimum capacity, voltage and overall quality.
7. **Deep Sleep Motion Sensor** – The HyTRON incorporates a “Deep Sleep” feature that minimizes the self discharge rate of the battery when it is inactive and stored for a period of time when not on a charger. See complete explanation page 4.

# CHARGING



- DO NOT ATTEMPT TO CHARGE THIS BATTERY WITH ANY CHARGER OTHER THAN THE ANTON/BAUER INTERACTIVE CHARGERS SPECIFIED IN THIS MANUAL.
- **Allow the battery to reach a STEADY GREEN (LifeSaver) mode before using for the first time. Please read the individual charger Owner’s Manual for specific operating features.**
- The battery will be approximately 90% charged when the LED’s on the charger indicate FLASHING GREEN. The battery is 100% charged when the charger indicates STEADY GREEN. The battery may be removed from the charger and discharged in either condition.
- **The battery can remain on the charger until just prior to being used.** The LifeSaver maintenance routine keeps the battery charged and ready for use. If the battery will not be used for an extended period (more than 60 days) see “Operating Guidelines” on page 4.

For best results this battery should be used or returned to the InterActive charger within 48 hours of being removed from the charger.

Note: On some older chargers it may be necessary to install the battery on charger, wait one (1) minute, then remove battery and reinstall. This procedure may need to be repeated more than once to “wake up” a low voltage battery.



# SINGLE CHARGER

L-Series 7.2V battery charger

The Anton/Bauer L-Series Single Position Charger is designed for L-Series batteries. Includes a charge control switch to toggle between ECO (slower charging) and FULL (fast charging). Additionally, includes a 5V USB output port to charge another device simultaneously.

- Compact design
- Lightweight and durable
- Single position charger for Anton/Bauer L-Series batteries
- LED indicator
- Charge Control Switch: ECO setting for slower charging
- FULL setting for fast charging
- 5V USB output port to charge another device simultaneously



## Single Position Charger

**SKU:** 8475-0131

- Input Power: 100-240 VAC, 50/60 Hz, 100 mA (MAX)
- Output Power: 4.2-8.4 VDC, 800 mA (max). USB 2.0 port: 5.0 VDC, 1.0 A (max.)
- Charging Time: 2-6 hrs.
- Size: 2 x 1.3 x 3.5 in. (5.1 x 3.3 x 9 cm)
- Weight: 3.1 oz. (88 g)
- Warranty: One year or 2,000 cycles

# PERFORMANCE CHARGERS

## Performance Charger Series

Innovative Performance Charger line designed to charge faster using less power

The revolutionary 'green' Performance Charger Series features a new, efficient charging algorithm for multi-chemistry, simultaneous charging. The series is nearly 40% more efficient than traditional chargers, rendering large power supplies virtually obsolete.



### Performance Charger DUAL

The 2 position, full featured Performance Charger DUAL is great for the owner operator or smaller production house. The small foot print allows for ease of travel.

- 2 Position Simultaneous Charging
- 100-240 VAC, 50-60 Hz Wide Range Input
- Field Upgradable Software
- Touch Screen LCD
- Size: 8.7in. (22.1 cm) x 8.5in. (21.59cm) x 11.3 in. (28.70 cm)
- Weight: 7 lbs. (3.18 kg)
- MAXX II Warranty (2 year warranty)



### Performance Charger QUAD

Full featured with touch screen LCD and WiFi communication option, this is ideal for larger networks, engineering staff needing inventory control or battery replacement management.

- 4 Position Simultaneous Charging
- 100-240 VAC, 50-60 Hz Wide Range Input
- Field Upgradable Software
- Touch Screen LCD
- Size: 8.7 in. (22.10 cm) X 9.9 in. (25.15 cm) X 16.5 in. (41.91 cm)
- Weight: 8 lbs. (3.63 kg)
- MAXX II Warranty (2 year warranty)

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# PERFORMANCE CHARGERS

## Performance Series V-Mount Charger

Innovative Performance Charger line designed to charge faster using less power

The revolutionary 'green' Performance Charger Series features a new, efficient charging algorithm for multi-chemistry, simultaneous charging of V-Mount batteries. The series is nearly 40% more efficient than traditional chargers, rendering large power supplies virtually obsolete.



### Performance Charger DUAL

The 2 position, full featured Performance Charger DUAL is great for the owner operator or smaller production house. The small foot print allows for ease of travel.

- 2 Position Simultaneous Charging
- 100-240 VAC, 50-60 Hz Wide Range Input
- Field Upgradable Software
- Touch Screen LCD
- Size: 8.7in. (22.1 cm) x 8.5in. (21.59cm) x 11.3 in. (28.70 cm)
- Weight: 7 lbs. (3.18 kg)
- MAXX II Warranty (2 year warranty)



### Performance Charger QUAD

Full featured with touch screen LCD and WiFi communication option, this is ideal for larger networks, engineering staff needing inventory control or battery replacement management.

- 4 Position Simultaneous Charging
- 100-240 VAC, 50-60 Hz Wide Range Input
- Field Upgradable Software
- Touch Screen LCD
- Size: 8.7 in. (22.10 cm) X 9.9 in. (25.15 cm) X 16.5 in. (41.91 cm)
- Weight: 8 lbs. (3.63 kg)
- MAXX II Warranty (2 year warranty)

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# PERFORMANCE CHARGERS

## LP Performance Charger Series

The advanced, simultaneous LP Performance Charger Series features an efficient multi-chemistry algorithm in a compact form factor. This design makes it ideally suited to fit on shelves, table tops or other tight spaces.

The LP Performance Charger automatically detects which battery has the strongest charge and prioritizes it, ensuring that a fully charged battery is always available in the shortest amount of time possible. Software constantly monitors the charging process and discharge curves to ensure that each battery is charged to its peak performance. Wi-Fi ready for ease of fleet management providing an ideal solution for rental facilities, ENG/EFP/OB vehicles and broadcast equipment depots.

The LP Performance Series is available in both Gold Mount® and V-Mount connectors and is the perfect complement to the Digital or Logic Series® batteries.



### LP2 Charger

The LP2 Chargers allow for ease of travel or fitting in small spaces.

- 2 Position Simultaneous Charging
- 100-240 VAC, 50-60 Hz Wide Range Input
- Field Upgradable Software
- 7.2in (18.28cm) x 9in (22.86cm)x3.6in (9.15cm)
- Weight: 3 lbs. (1.3 kg)
- MAXX II Warranty (2 year warranty)
- Available in Gold Mount and V-mount versions



### LP4 Charger

The LP4 Charger is great for rental facilities, ENG/EFP/OB vehicles and broadcast equipment depots.

- 4 Position Simultaneous Charging
- 100-240 VAC, 50-60 Hz Wide Range Input
- Field Upgradable Software
- 12.2in (30.99cm) x 9in (22.86cm)x3.6in (9.15cm)
- Weight: 4.2 lbs. (1.9 kg)
- MAXX II Warranty (2 year warranty)
- Available in Gold Mount and V-mount versions

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## LP-D Travel Discharger



Part No. 8475-0135 Performance Series Discharger LP-D G Mount

Part No. 8475-0136 Performance Series Discharger LP-D V Mount



Introduction

Effective 1<sup>st</sup> April 2016: the Anton/Bauer® LP-D Travel Discharger adheres to the IATA regulations on flying Li-Ion batteries. Li-Ion batteries will be discharged under 30% of their rated capacity to ship them as air cargo. In addition it is no longer permissible to take Li-Ion batteries onto aircrafts as hold luggage.

This user guide covers the safe and reliable operation of the LP-D Travel Discharger.

Important

Special precautions and handling instructions are contained in this user guide and should be strictly adhered to for safe and reliable operation.

Contact Anton/Bauer® Customer Support Group with any questions regarding this product.

Anton/Bauer® Battery Compatibility

Anton/Bauer® LP-D Travel Dischargers are compatible with all Digital Series®, CINE Series®, and most Logic Series® Anton/Bauer® Li-Ion batteries.

For questions on product compatibility please contact the Anton/Bauer® Customer Support Group.

Third Party V-Mount Compatibility

The product will work with products using the SMBus (V-mount) and Anton/Bauer® Communication Standards.

Physical Data



**Height**  
3.6 inches (100.5 mm)



**Length**  
11.81 inches (300.0 mm)



**Width**  
9 inches (228.6 mm)



**Weight**  
3.95 lbs (1.8 kg)

Discharge Times

**90 Whr** 3.0 hours

**150 Whr** 4.3 hours

**180 Whr** 4.6 hours

Environmental Data

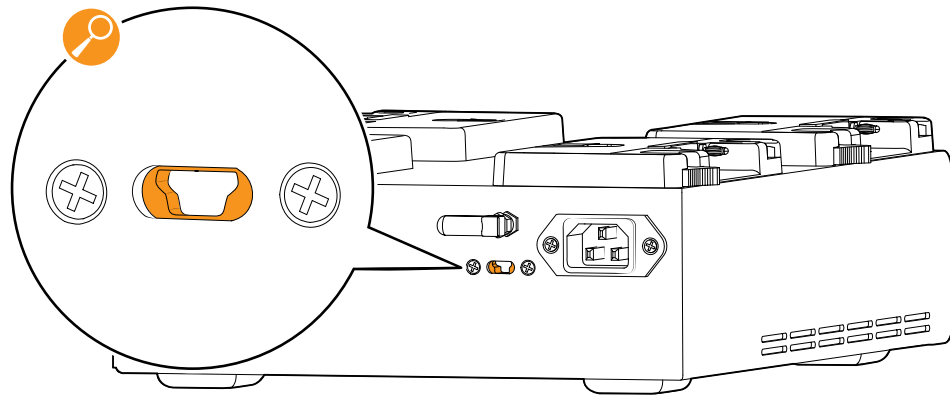


**Operating Temperature Range**  
-O°C to +40°C lbs (-32°F to +104°F)

## Mini USB Port

Located at the back, this port is used to upgrade the firmware of the LP-D Travel Discharger. Additionally, if IATA regulations change, an Anton/Bauer® PC Application can update the desired discharge threshold.

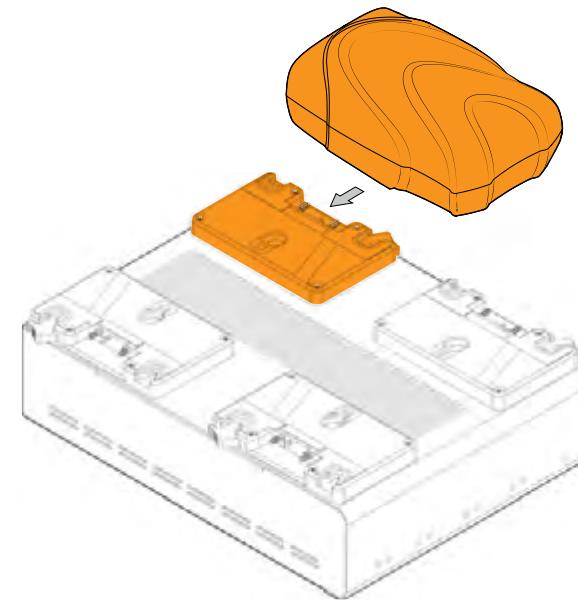
For more information, please contact the Anton/Bauer® Customer Support Group.



## Attaching a Battery to the Discharger

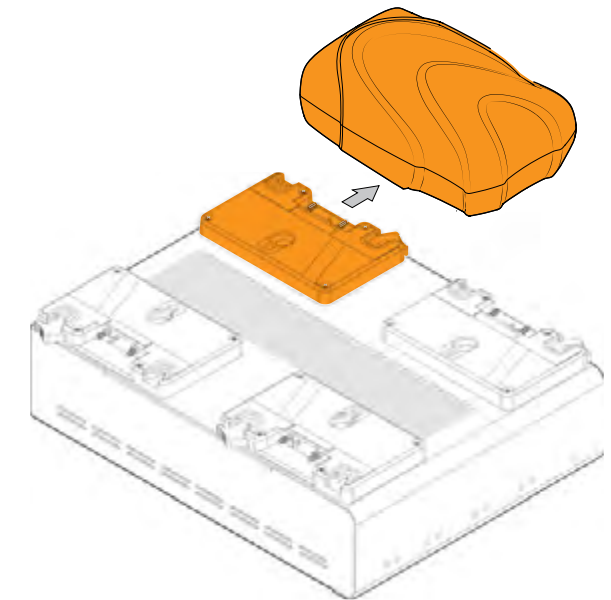
To attach a battery to either the Gold Mount or V-Mount adaptor on the discharger:

1. Slide the battery onto the adaptor, ensuring the Gold Mount T-stud or V-Mount are aligned in the corresponding slots.
2. The battery is fully engaged when the latch makes an audible "click".



## To Release the Battery

1. Depress the latch and hold.
2. Slide the battery off the connector.



Self-Test

Upon attaching a battery, the discharger will initiate a brief self-test mode. Self-test mode is complete when the charger LED indicates battery information on the position being used.






Discharging

As with all Anton/Bauer® chargers, discharging with a LP-D Travel Discharger is fully automatic. Mount any applicable battery to any open position on the discharger and the LP-D Travel Discharger will automatically determine the appropriate discharge routine and execute it.

When both LEDs are off, the battery discharge is complete and the battery is safe for travel. The discharger remains on, powered by the batteries until all batteries are removed, so some batteries may be lower than others. This operation is normal.

LED Indicators

The LP-D Travel Dischargers comes standard with LED indicators. The LED indicators are used to convey information about the current discharge status of the batteries.

LED	Description
	Alternating Red and Green: Evaluate
	Flashing Red: Discharge
	Off: Discharge Complete
	Solid Red: Hold  If persistent, please contact the Anton/Bauer® Customer Support Group.



At Vitec Videocom we take great pride in the quality of our products and we also recognize that your experience with our products will be even more positive and productive with strong, effective support to back them up.

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