Choosing PAG shows others that you demand the best

PAG™
Professional Broadcast Equipment

High-Capacity Li-Ion

The new PAG L190e Battery

Higher Capacities

Todays power-hungry high-definition cameras and equipment require high capacity batteries. The PAG L190e is a 14.8V 13Ah battery that provides 190 watt-hours of power. It is capable of producing twice the run-time of the L95 or L95e. This means fewer batteries required on location and fewer trips to the charger.

Quality Maintained

Low-quality Li-Ion batteries can fail within a year, and provide poor value for money. For this reason the PAG L190e maintains the quality and safety standards for which PAG is renowned. However, the low-cost philosophy behind the PAG 'e-series' is also reflected in the price of the L190e.

Compatibility

PAG provides the new L190e Li-Ion battery in PAGlok and V-Mount compatible formats.

Longer Lasting Li-Ion

PAG has incorporated many levels of protection within the L190e to ensure the highest possible safety standard. These features help prevent the damaging processes that reduce capacity, and in combination with proprietary charging techniques, ensure a longer battery cycle life. PAG is able to offer an impressive warranty of 18 months on the new L190e.

The PAG L190e incorporates quality branded cells, and an internal pro-tection circuit coated with Parylene to protect against the results of severe abuse to the cell pack.

Power & Time Circle

The PAG L190e incorporates the new PAG Power & Time Circle capacity indicator. It uses five LEDs to display charge status in terms of percentage. When the display button is pressed each LED that is lit represents approximately 20% of available capacity.

The display is also capable of indicating an estimate of remaining run-time, on-load:

A second button press activates the time display. The 'HRS' LED flashes twice.

The number of hours is indicated by the number of lit LEDs: 2 LEDs = 2 hours.

The 'MINS' LED then flashes twice.

The number of minutes is indicated: 3 LEDs = 30 mins.

No Service Charge

The new 5 LED display maintains its level of accuracy after repeated partial discharge cycles, and the battery does not require a periodic 'service charge' to re-establish accuracy.

Self-Recovery

If the battery has been shut down by its protection circuit it can be recovered by simply removing it from the load and pressing the display button, provided the battery still retains some charge.

Charging

To achieve the longest cycle life the PAG L190e should always be charged using a PAG charger. PAGlok chargers in the field that have received a software-upgrade for the L95e will also be able to charge the new L190e. The new PAGlok Cube and PAG V-Series chargers are already compatible. The appropriate Sony charger can also be used.

Model 9670E Chip-Upgrade for AR Series 2 chargers.
Model 9670QE Chip-Upgrade for Quasar chargers.
Freelancer chargers must be returned to PAG to receive the upgrade.

Specification

Model No. 9365
PAGlok professional battery connector.

Model No. 9365V
Sony V-Mount compatible battery connector.

Construction:
The casing for these models consists of high-impact polycarbonate injection mouldings, featuring an internal cradle designed to protect the cells from impact damage. The cells have welded interconnections of low-resistance nickel strap. The batteries are sealed and non user-serviceable.

Cells:
Premium grade Lithium-Ion sealed rechargeable cylindrical cells.

Voltage:
14.8V nominal. The battery contains 24 cells connected in series/parallel. Each cell has a nominal voltage of 3.7V.

Capacity:
Nominal 13 ampere-hours, with a charge voltage of 4.2V per cell.

Output Current:
Rated maximum continuous output current is 10 amperes.

Protection:
The battery incorporates the following safety shutdown systems:

> 3 over-current shutdown systems.
> 2 over-voltage shutdown systems.
> 2 under-voltage shutdown systems.
> 2 thermal shutdown systems (including a non-resetting thermal fuse).

All protection circuits within the battery are designed to withstand the leakage of electrolyte.

Operating Temperature Range:
Optimum discharge efficiency is achieved within the temperature range +10°C to +40°C.

PAG Power & Time Circle Display:
A single button-press displays charge status in terms of percentage. The LEDs light clockwise, from the top right round to top left.

5 LEDs	=	> 90%	remaining
4 LEDs	=	70 - 90%	remaining
3 LEDs	=	50 - 70%	remaining
2 LEDs	=	30 - 50%	remaining
1 LED	=	10 - 30%	remaining
1 LED flashing	=	0 - 10%	remaining

The display is also capable of indicating an estimate of remaining run-time, on-load:

> The second button-press activates the time display.

> The 'HRS' LED will flash twice.

> The number of remaining hours will be indicated by the number of lit LEDs: each LED represents 1 hour.

> The 'MINS' LED will then flash twice.

> The number of additional remaining minutes will be indicated by the number of lit LEDs: each LED represents approximately 10 minutes.

NOTE: This product provides an estimate of remaining run-time. A more accurate and sophisticated run-time display is provided by the PAG Power & Time Display, incorporated in the L95 Time Battery (Models 9382 PAGlok, 9360 V-Mount and 9383 Snap-on).

Overall Dimensions:

	Height	Width	Depth
PAGlok*	175mm (6.9")	130mm (5.1")	43mm (1.7")
V-Mount	175mm (6.9")	130mm (5.1")	43mm (1.7")

**excluding locking claws*

Weight:

PAGlok	1.46kg (3.21lbs)
V-Mount	1.49kg (3.28lbs)

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