

Why Choose PAG Chargers?

The Secret of Longer Battery Life

PAG chargers are the most versatile and advanced microcomputer-controlled battery management systems in the industry. The proprietary software that controls the charging process will extend the working life of your batteries beyond anything that can be achieved using other systems.

The latest chargers incorporate PAG iPC, Intelligent Parallel Charging, designed for the simultaneous fast-charging of the latest PAG and Sony Li-Ion batteries.

PAG ACS is a sequential Advanced Charging System suitable for fast-charging PAG Li-Ion batteries, as well as Ni-MH and Ni-Cd batteries of any reputable manufacturer.

Intelligent Parallel Charging

PAG's unique Intelligent Parallel Charging software incorporates three phases:

Phase 1 Pre-Charge:

Prepares shutdown or deeply discharged batteries for charge acceptance.

Phase 2 Testing:

Determines the type and state-of-charge of the batteries, and the maximum current that can be applied.

Phase 3 Charging:

The charger then shares the current intelligently between the channels, briefly addressing the most discharged batteries first, before simultaneously fully-charging all batteries as quickly and efficiently as possible.

PAG ACS

PAG pioneered safe, accurate fast-charging for broadcast camera batteries back when it was wrongly thought to be damaging. The PAG ACS system evolved over time as new battery technologies become adopted by the industry.

PAG ACS chargers are intelligent, they require only the positive and negative connections to analyse the battery and apply and monitor the charging process. No thermal sensors are required, that are typically used by other manufacturers systems.

Fast-Charge Termination

To perform properly batteries must be charged by exactly the right amount. Undercharging gives less than full capacity and consequently a shorter run-time, whereas overcharging can permanently damage the battery. To ensure that the fast-charge current is stopped at the correct time, and in order to detect the many varied problems associated with faulty batteries, the PAG ACS microcomputer uses a combination of several cut-off algorithms. The software developed to do this is the most powerful and complex part of any charger incorporating PAG ACS.

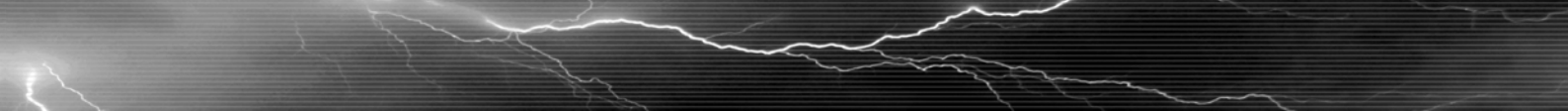
Automatic Charge-Rate Selection

In acknowledgement of the wide variety of batteries that are available to the camera operator, PAG has incorporated revolutionary software in its chargers that provides an easy and efficient system of battery management. When a battery is connected to the charger a period of analysis ensues that detects the battery's cell-chemistry, state-of-charge, capacity and condition. The charger then automatically applies the correct regime to achieve a fully charged battery with the maximum capacity and cycle life.

Charge More Batteries

The latest PAG Cube chargers will simultaneously fast-charge PAG, Sony and IDX Li-Ion batteries, as well as sequentially charging Ni-MH and Ni-Cd batteries of any reputable manufacturer within the ranges 4.8V to 14.8V, 1Ah to 10Ah.

PAG chargers are available with a variety of battery connections: PAGlok, V-Mount, Snap-on (for PAG Snap-on batteries only) and NP1 pockets.



PAG 'universal' chargers that incorporate PP90 sockets on their front panels, are capable of charging an even greater variety of batteries, within the chargers broad range, via the appropriate charge adaptor.

Variety of Features

The features of each PAG charger can vary to include either 2 or 4 channels, a built-in camera power supply or special charging programs.

Discharge/Charge

Batteries which have been repeatedly subjected to partial discharging will benefit from the analytic Discharge/Charge program which also measures and displays available battery capacity.

Li-Ion Recovery

PAG chargers incorporate a feature that will automatically recover PAG Li-Ion batteries when the output has been shut down by the internal protection circuit.

Recovery Charge

The Recovery Charge Program can be used to regain capacity lost as a result of extended storage or operation under adverse conditions.

Maintenance Charge

An automatic Maintenance Charge is applied to Ni-Cd and Ni-MH batteries, after full charging, to keep them in peak condition and ready for instant use. This program is not required for Li-Ion batteries.

Ease of Use

All PAG chargers are easy to operate. The latest models are fully automatic.

Information Displays

Large backlit LCD displays indicate the status of the battery and the charger, some provide information such as charge loaded and battery voltage.

Camera Power Supply

Separate Camera Power Adaptors are available that enable you to power your camera from an AC mains supply, using the Cube charger (PAGlok or V-Mount models). The PAG CPA outputs 16.8V at 5.5A and is suitable for use with modern broadcast cameras which can be powered by 14.4V / 14.8V Li-Ion batteries.

Certain Quasar chargers incorporate a Camera Power Supply that provides a nominal 50W suitable for powering most professional broadcast cameras. In power supply mode the Quasar displays an accurate digital bar-graph of power consumption.

Construction

PAG chargers are ideal for location use. They are quiet, cool-running and have a lightweight impact-resistant moulded-construction. The latest Cube models incorporate an aluminium frame and a strong, moulded handle that enables you to carry the charger with four batteries connected. The handle can be retracted into the lid of the charger when not required, to maintain the compact dimensions of the unit.

RFI Certification

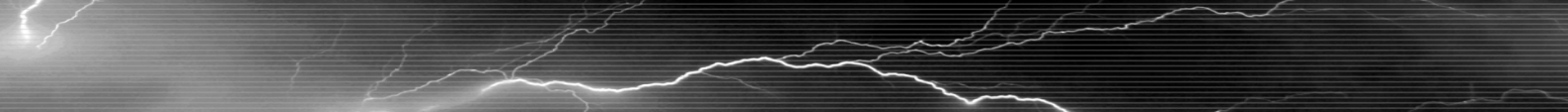
All PAG chargers are designed to high electrical standard, with RFI certification, and are suitable for use in all broadcast environments.


Rack-Mounted Charging

Suitable for use in outside broadcast vehicles or a workshop environment, the PAG RMC4X Rack Charger fits into a half-rack system (two can be mounted side by side in a full 19" rack), and provides 4-channels of fast, efficient Intelligent Parallel Charging via V-Mount or PAGlok connectors.

Worldwide Operation

PAG charging systems automatically adjust to operate from AC mains supplies worldwide.





The world's most advanced batteries
chargers and camera lights



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PAG is a UK distributor for Angenieux,
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