



## ARRI TECHNICAL NOTE P-1017

### 435 Power Requirements

#### Summary

This note provides information on the power requirements of the 435.

#### General Notes

The ARRIFLEX 435 is a camera with outstanding performance characteristics, including its ability to run up to 150 fps in a very short amount of time. These performance characteristics necessitate power requirements that are different from older ARRI cameras, and non-ARRI accessories need to be carefully looked at to ensure proper interfacing with the 435. If you have any questions about specific equipment, please contact the equipment manufacturer, your local ARRI dealer or service office. A listing of the members of the ARRI Group can be found in the ARRI Technical Note P-1015.

Here are some of the issues we have encountered so far:

#### 1. Speeds over 130 Fps

For speeds above 130 fps the 435 needs at least 24 Volts dc. A nominal "24 V" battery will output less than 24 V after having been used for a short time, and once the voltage drops below 24 V the 435 will not run over 130 fps. To provide a battery that can cover the whole fps range, many rental houses have switched to 26 V dc batteries. It is inadvisable to use a battery with a nominal voltage higher than 26 V, since the RS, ACC and CCU receptacles on the 435 output the same voltage as is supplied to the BAT receptacle (up to 32 V), and not all accessories are suited to voltages over 26 V.

#### 2. DC to DC Converters

Some DC to DC converters cannot handle the temporary current draw increase that occurs when starting the 435 or when running speed/exposure ramps. DC to DC converters are used in various systems, including some remote heads and Steadicam rigs. Stronger batteries or a different type of DC to DC converter can remedy this situation. Call the equipment's manufacturer or your local ARRI office for details.

#### 3. Long Cable Runs

When connecting a power supply or battery to the camera with a long cable, the voltage drop across the cable can be too much to provide adequate power to the 435. This has been observed with crane and remote head operations. To remedy this problem, use either a power cable of a heavier gauge, place the power supply or battery closer to the camera, or use a stronger power supply or battery.

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#### Cross Reference

- ARRI Technical Note P-1007: New 24 V Splitter Box for 435

#### Article Change History

June 25, 1998      Article was created.

#### Keywords

435, Power Requirements, Remote Heads, Steadicam, DC to DC Converters

For more information on this issue, please contact your local ARRI representative.