New possibilities opened up by today's digital cameras have made higher frame rates increasingly popular. Images filmed at 200 fps and beyond without any sacrifice of image quality require sophisticated new lighting tools.

ARRI already offers a wide range of high speed ballasts, up to 9,000 W. The new electronic ballast EB 12/18 HS now extends that range all the way up to 18,000 W.

A new AutoScan mode scans the lamp from 900 to 1,200 Hz and determines the frequency that will minimize light fluctuation. This advanced feature sets the optimum lamp frequency according to each specific setup, since the behavior of discharge lamps may change with the tilt angle and the number of burn hours. AutoScan is automatic and requires no interaction from the operator.

In addition, a manual mode is available that allows users to set the lamp frequency manually. Whether controlled manually or automatically, the wide bandwidth of 300 Hz ensures that the ideal lamp frequency can always be found, even for very high frame rates.

The new EB 12/18 HS also offers all the standard features of ARRI ballasts. It controls lamp wattages not only through the current or voltage; Active Line Filter (ALF) is included, as well as DMX. The indicators on the front panel show the lamp wattage, DMX channel, operation mode and the selected lamp frequency.

Together with the ARRIMAX 18/12, the EB12/18 HS provides a unique system for extremely powerful high-speed, high-quality images.
Technical Specifications

EB 12/18

L2.76205KH

EB 12/18 HS, ALF, 190-250 V, DMX, Autoscan 900 to 1,200 Hz

**Ballast Type**

Electronic Ballast

Electronic High Speed Ballast for 12.000 W and 18.000 W discharge lamps

**Lamphead Types**

ARRI Daylight 12000, ARRI Daylight 18/12 (PLUS),
ARRI Compact 12000 and ARRIMAX 18/12

**Weight**

approx. 49 kg (108 lbs) / 64 kg (141 lbs) with trolley

**Dimension**

548 x 283 x 506 mm (21.6 x 11.1 x 19.9 inch) (HxWxL)

**Lamp Power**

18.000 W or 12.000 W Discharge Lamps only

**Line Voltage**

190 - 250 V~ 50/60 Hz; 1, N, PE (single phase)

**Line Current**

12 kW lamp: 68 – 52 A (eff.)
18 kW lamp: 102 – 78 A (eff.)

**Max. Power**

19.400 VA (apparent), 19.000 W (real input)

**Power factor (cos φ)**

cos φ 0.98 due to Active Line Filter

**Efficiency**

approx. 0.95

**Protection Class**

I

**IP Rating**

IP22

**Temperature**

50°C (122°F) for max. ambient temperature

**Active Line Filter (ALF)**

✓

**DMX**

512, In and Out, dimming 100% to 50% output power, switch On/Off

**DMX Connector**

DMX In / Out (XLR 5-pol) connector

**Ignition**

Cold start and hot restrike

**Automatic Lamp Detection**

Indication of detected lamp type with LED (12 kW green, 18 kW yellow)

**Lamp Frequency**

50/60 Hz (Low Noise), 75 Hz (Flicker Free), 900 to 1200 Hz (High Speed)

**High Speed Modes**

AutoScan: Frequency scan and automatic control and adjustment of lamp frequency
AutoMan: Manual frequency setting with automatic control and adjustment of lamp frequency
Manual: Manual frequency setting only, no automatic adjustment

**Indication**

Display for DMX channel and lamp frequency
Successful ignition LED „LAMP“ (yellow)
Overtemperature with LED „TEMP“ (red)
Line power with LED „POWER“ (green)
Protective earth with LED „PE“ (green)
Lamp type with LED (12 kW green, 18 kW yellow)