

JB LIGHTING

F40

3,000 W
WASH

with framing module

Output
149,000
lumens

Zoom
9°–78°
1/10 peak

only
29 dB(A)
extremely
quiet

only
46 kg
weight

LED
3,000 W
white light

A new era of lighting has begun:
with a Ø320mm Fresnel lens for maximum light performance
over long distances.

Made in
GERMANY

...JUST BRILLIANT

The **F40 Wash** marks the beginning of a new era in lighting!

More light. More color. More scope.

Developed in collaboration with lighting designers from renowned concert halls and opera houses across Europe, as well as experts from the film, entertainment and event industries, the F40 Wash is the world's first Fresnel washlight with 3,000 W of LED power – redefining the boundaries of what is possible.

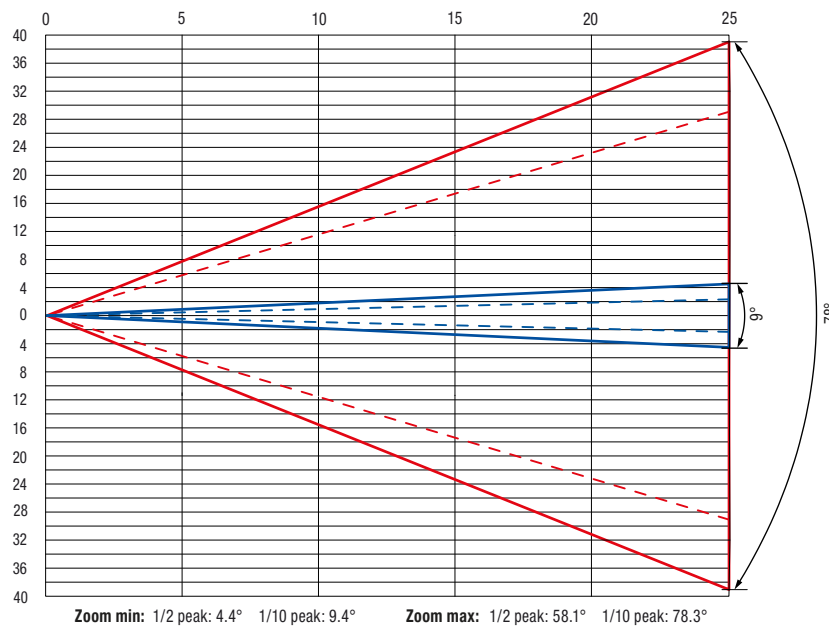


**A multifunctional LED washlight
designed for large stages, long distances and the highest demands.**

The F40 Wash combines maximum brightness, state-of-the-art networking and cooling technology with all the advantages of a high-performance LED moving head. It consumes significantly less energy than comparable 4 kW HMI and 5 kW halogen spotlights, whilst offering greater design flexibility – with a significantly superior zoom range, a barn door module, variable light distribution and optimal dimming performance.

PERFECT LIGHT DISTRIBUTION

The Fresnel optics provide exceptionally even light distribution across the entire **zoom range of 9°–78° (1:8.6) 1/10 peak**, right through to the edges. In addition, the zoom-focus lens allows the light distribution to be precisely defined and individually adapted to different lighting requirements – from a pronounced hot spot to silky smooth. A continuously variable 10° frost filter further expands the creative possibilities and provides even greater flexibility.



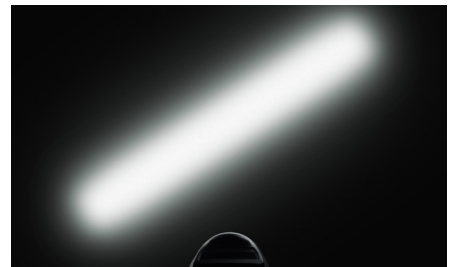
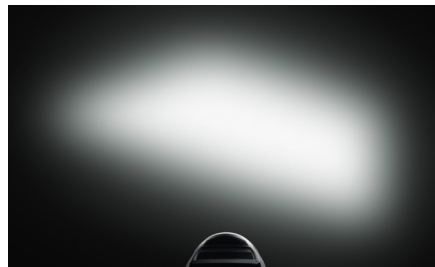
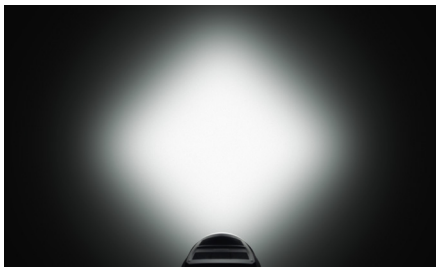
Minimum zoom: 9°



Maximum Zoom: 78°

FAST & PRECISE SHAPING

The F40 Wash framing module features a 4-level blade mechanism, with each of the four blades positioned on its own plane. Each blade can be freely rotated and positioned and inserted at an angle of $\pm 30^\circ$ across virtually the entire usable range. This enables fast, precise beam shaping from any hanging position and lighting angle – providing maximum flexibility in lighting design. The framing module itself can also be rotated through 130° and combined with frost.



A NEW WAY OF LIGHTING

In theatres, it excels as a versatile panorama and overhead lighting fixture – while in events and film, its exceptional performance opens up entirely new and creative lighting possibilities. Whether for a spectacular TV show or a high-energy festival, the F40 Wash makes artists, stages and unforgettable moments stand out impressively in both frontlight and backlight applications.



F40 Wash: The LED washlight that outshines everything that has come before!

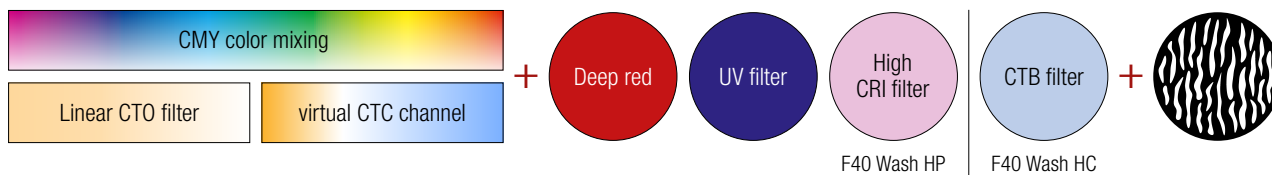


WITH FEATURES INCLUDING:

- Zoom range from 9°–78° (1:8.6) 1/10 peak
- Framing module, +/-65° rotatable with 4 blades, each blade can be rotated by +/-30°
- Effect wheel on the F40 Wash HP with texture gobo, deep red, UV and High-CRI filters; on the F40 Wash HC, the High-CRI filter is replaced by a CTB filter
- CMY color mixing system and linear CTO filter
- Frost filter (10°), with additional filters optionally available
- Electronic dimmer 0%–100%, with 3 selectable dimming curves
- Electronic shutter with pulse and ramp functions
- Animation effect / Sparkle effect
- Virtual green/magenta correction and virtual CTC adjustment (2000 K – 13000 K)
- Whisper-quiet operation: 29 dB(A) in Whisper Mode
- Graphic display, electronically rotatable and with a battery backup
- Flicker-free operation, camera mode: 100 | 120 | 600 Hz and high flex mode
- 4 carrying handles for easy handling

CMY COLOR MIXING & FILTER KORREKTION

The F40 Wash combines outstanding color rendering, maximum output and almost unlimited color versatility. The CMY flag color mixing system provides smooth, homogeneous color mixing, from subtle pastel shades to intensely saturated colors. The linear CTO filter allows precise adjustment of the color temperature along the Black Body Line. In addition, the virtual CTC channel enables seamless color temperature adjustment from 2000 K–13000 K to match the existing lighting environment.



F40 WASH SPECIFICATIONS

You can choose between the **F40 Wash HP** with 6800 K and CRI 76 (± 3), designed for maximum brightness over long distances and, with the High-CRI Filter, delivering a color temperature of 5800 K with CRI ≥ 90 . Or the **F40 Wash HC** with 5800 K and a CRI of 97 (± 3), which impresses with its outstanding color quality. Combined with the linear CTO, it also delivers warm white light with outstanding halogen light quality: 3200 K and CRI 97 (± 3), precisely on the Black Body Line.



F40 HP



F40 HC

Specification:	HP – High Power	HC – High CRI
Color temperature:	6800 K	5800 K
Luminosity:	212,000 lm (149,000 lm Output)	160,000 lm (105,000 lm Output)
CRI:	76 (± 3), with CRI filter ≥ 90	97 (± 3)
Correction filter:	linear CTO 6800 K to 3000 K	linear CTO 5800 K to 3000 K
Usage:	Maximum luminous intensity Perfect for long distances and as a high-beam headlamp	Superior light quality For vivid colors and natural skin tones with the best luminosity

Technical specifications:

Optics and light source

- 3,000 W white light LED module with "phosphorous in silicone" technology
- **F40 Wash HP** (High Power):
6800 K; 212,000 lm (149,000 lm Output); CRI 76 (+/-3); TM-30 Rg = 94 (+/-3)
- **F40 Wash HC** (High CRI):
5800 K; 160,000 lm (105,000 lm Output); CRI 97 (+/-3); TM-30 Rg = 100 (+/-3)
- Light-emitting lens Ø 320 mm
- Highly-efficient optical system combining zoom, focus and a Fresnel lens for flexible light distribution and maximum efficiency
- > 20.000 h life time
- Flicker-free operation, camera mode: 100, 120, 600 Hz and high flex mode
- Zoom range: 1/2 peak beam angle 4.4°–58.1°
1/10 peak beam angle 9.4°–78.3°

Effects

- HP effect wheel: Deep red, UV and High CRI filters + gobo + open, changeable
- HC effect wheel: Deep red and CTB filters + gobo + open, changeable
- Framing module with 4 blades, module can be rotated by 130° (+/-65°), each blade can be rotated individually by +/-30°
- CMY color mixing system
- Linear CTO filter for variable color temperature adjustment exactly along the black body line: HP: 6800 K – 3000 K; HC: 5800 K – 3000 K
- Frost filter (10°), infinitely retractable – can be replaced by JB click system, other frost levels available as options: 5°, 20°
- Electronic dimmer 0% – 100%, 3 selectable dimming curves
- Electronic shutter with pre-programmed pulse and ramp functions
- Animation effect / sparkle effect
- Virtual green/magenta correction to adapt to the surrounding light
- Virtual CTC adjustment: all light colors 2000 K – 13000 K

Movement

- 3 phase extra strong stepping motors
- Precise and silent movement
- 540° pan / 262° tilt

Control and programming

- USITT DMX-512, RDM
- Ethernet interface with Art-Net and sACN
- Wireless DMX / RDM Lumen Radio CRMx TiMo
- LCD display with function keys and battery buffer, electronically rotatable
- Micro USB for software update
- Stand-alone mode, Master/Slave function
- Error analysis and DMX analysis
- Ethernet in/out with bypass function switch 10/100 Mbps

Construction

- Original JB-Lighting slide-in module technology
- Robust, roadworthy design with 4 carrying handles
- Transport lock for pan/tilt
- High-tech heat pipe cooling combined with calibrated silent fans.
5 fan modes: Longlife, Boost, Standard, Theatre Silent, Theatre Whisper for almost noiseless operation at max. 29 dB(A)
- Neutrik 5pol XLR IN/OUT
- Neutrik etherCON IN/OUT
- Neutrik powerCON TRUE1 32A

Rigging

- 2 Omega brackets with Original Camloc® fasteners for quick and convenient installation, with four different fastening options

Electrical and thermal specification

- Maximum power consumption 3,200 VA
- Supply voltage 100V–240V, 50/60 Hz
- Total heat dissipation (calculated): 10,918 BTU/h
- Ambient temperature: 0 to +45° (note the warm-up phase)

Mechanical specifications

- Dimensions: W 565 x D 365 x H 976 mm
- Weight: 46 kg
- LWR specification: (LWR = Lumen to Weight Ratio)
HP: 3,239 lm/kg · HC: 2,283 lm/kg



Scope of delivery

- PowerCON TRUE1 32A + open end flexible rubber cable (2 m long, 3x2.5 mm²)
- 2 Omega brackets

Warranty

- Device: 2 years
- LED module: 4 years

Accessories

- ZU0029 Path limitation
- CASE53 AMPTOWN single flight case
Dimensions: W 120 x D 60 x H 58 cm
Weight (incl. device): approx. 45 (91) kg



JB LIGHTING

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