

byko-spectra pro

Best in Class Daylight

It is a real challenge to achieve the standard daylight D65 or D75 as defined by CIE. The new byko-spectra pro uses a smart combination of filtered tungsten-halogen lamps and LEDs. That makes the highest rendering Class A according CIE 51.2 available and guarantees accurate color matching.

Light for any Application and Specification

In total eight certified illuminants make you prepared to precisely ensure, that your goods will pass under all common lighting conditions without any metamerism:

- Daylight D65, D75
- Incandescent light A
- 2300 K/Horizon HZ
- Department store light CWF, TL84, U30
- Ultra-violet light UV



100% Controlled Illumination ensures Accurate Color Evaluation

Long lasting, reliable lighting conditions are the prerequisite for credible color appraisals. The built-in sensors of byko-spectra pro permanently control the lamp performance and automatically adjust the voltage to guarantee lamp stability. Actual color temperature and light intensity in lux are detected by a light monitoring system and simultaneously shown on the display.

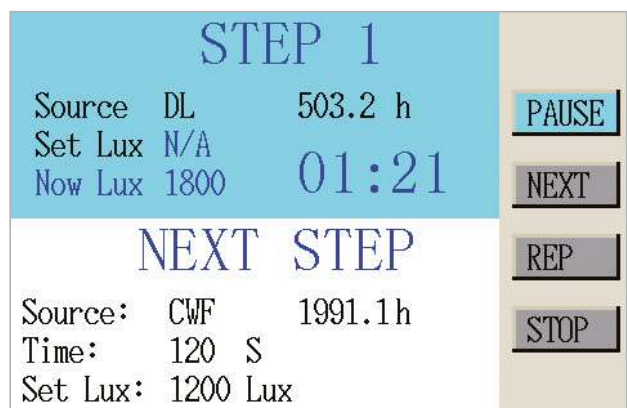
A special highlight is the extended lifetime of the halogen lamps reducing the maintenance interval. Additionally, a time tracker indicates how long the lamps are in operation and you exactly know when a replacement is necessary. As diffused light is necessary to evaluate solid colors, diffusers mix the light to ensure uniform lighting over the entire inspection field.



Comfortable Functions for Efficient Operation

The large color display allows not only switching between the illuminants, but also enables easy menu guided operation.

- Adjust the lux output of fluorescent tubes based on sample type or user needs – optimum viewing for light and dark colors.
- Auto sequence mode enables automatic switching between multiple illuminants – you will fully focus on color appraisal. Predefine the sequence to your individual needs:
 - Selection of illuminants
 - Duration time
 - Intensity of fluorescent tubes
 - Single run or repeat
- The remote control allows easy switching between illuminants from a distance of up to 10 m.



Light-up in Harmony

The luminaires, byko-spectra *lum*, are available for mounting on the ceiling or a wall to conveniently appraise large products.

- 2 to 32: Several luminaires are combined in a modular system to illuminate large appraisal fields or to equip harmony rooms.
- One: All luminaires are operated together via the same control panel.
- Eight: The system can be split in up to eight groups and be controlled separately.

The luminaires and harmony rooms offer the same illumination as the byko-spectra *pro* light booths.

We assist you in the design and set-up of your customized color inspection system, best fitting to your products and appraisal environment. Additionally we offer on-site audits to assure the appraisal conditions meet the required specifications.

Our maintenance programs support you to keep always consistent and accurate viewing conditions.

Standards

ASTM	D 1729
ISO	3668 (accessory required)



Ordering Information

Cat. No.	Description
6073	byko-spectra <i>pro</i> 230 V
6072	byko-spectra <i>pro</i> 115 V
6075	byko-spectra <i>lum</i> 230 V
6074	byko-spectra <i>lum</i> 115 V

Technical Specifications

Voltage	Display	Dimensions	Viewing Area	Weight
230 V, 50/60 Hz	8,3 x 5,5 cm (3.3 x 2.2 in)	70 x 99 x 64 cm (27.5 x 39 x 25 in)	56 x 89 x 60 cm (22 x 35 x 23.5 in)	49 kg (108 lbs)
115 V, 50/60 Hz	8,3 x 5,5 cm (3.3 x 2.2 in)	70 x 99 x 64 cm (27.5 x 39 x 25 in)	56 x 89 x 60 cm (22 x 35 x 23.5 in)	49 kg (108 lbs)
230 V, 50/60 Hz	8,3 x 5,5 cm (3.3 x 2.2 in)	21 x 99 x 64 cm (8.3 x 39 x 25 in)	89 x 60 cm (35 x 23.5 in)	40 kg (88 lbs)
115 V, 50/60 Hz	8,3 x 5,5 cm (3.3 x 2.2 in)	21 x 99 x 64 cm (8.3 x 39 x 25 in)	89 x 60 cm (35 x 23.5 in)	40 kg (88 lbs)

Comes complete with:

Light booth (6072-6073) or
Luminaire (6074-6075)
8 illuminants: D65, D75, A, HZ, CWF, TL84, U30, UV
25% Attenuator (2 pcs) for D75
Remote control with 2 x AAA batteries
System report software for download
USB cable
Power Cord
Snap hook (4 pcs)
Cascade cable
Backup fuse (4 pcs)
Operation manual
Factory certificate



Ordering Information

Cat. No.	Description
6076	D65 Halogen Lamp for 6072-6075
6077	A Lamp for 6072-6075
6078	HZ Lamp for 6072-6075
6079	CWF Lamp for 6072-6075
6080	TL84 Lamp for 6072-6075
6081	U30 Lamp for 6072-6075
6082	UV Lamp for 6072-6075
6083	LED Array, left for 6072-6075
6084	LED Array, right for 6072-6075
6085	ISO Panel Set for 6072-6075
6086	Remote control for 6072-6075
6087	25% Attenuator D75
6337	USB Interface Cable

Technical Specifications

Voltage	Lamp Lifetime
230 / 115 V	600 hrs
230 / 115 V	600 hrs
230 / 115 V	600 hrs
230 / 115 V	2000 hrs
230 / 115 V	2000 hrs
230 / 115 V	2000 hrs
230 / 115 V	2000 hrs
230 / 115 V	700 hrs
230 / 115 V	700 hrs