

# 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:

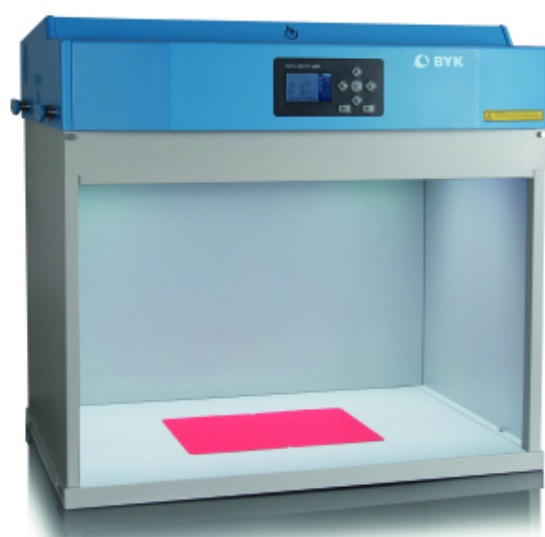
- |                          |                |
|--------------------------|----------------|
| ▪ Daylight               | D65, D75       |
| ▪ Incandescent light     | A              |
| ▪ 2300 K/Horizon         | HZ             |
| ▪ Department store light | CWF, TL84, U30 |
| ▪ Ultra-violet light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



## 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.



## 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.

<h3>STEP 1</h3>			
Source	DL	503.2 h	<b>PAUSE</b>
Set Lux	N/A		<b>NEXT</b>
Now Lux	1800	01:21	<b>REP</b>
<h3>NEXT STEP</h3>			<b>STOP</b>
Source:	CWF	1991.1 h	
Time:	120 S		
Set Lux:	1200 Lux		

## 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.

**Certified** Please refer to section Preventive Maintenance

### Standards

ASTM	D 1729
ISO	3868 (accessory required)

### Ordering Information

Cat. No.	Description	Price
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	

#### 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)  
Operating manual  
Factory certificate

### Ordering Information

Cat. No.	Description	Price
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	

**Note:** Replacement of fluorescent lamps is recommended after 2000 hrs and tungsten-halogen lamps should be renewed after 600 hrs.

### 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)		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)		40 kg (88 lbs)

### Accessories

Voltage
230 / 115 V
230 / 115 V
230 / 115 V
230 / 115 V
230 / 115 V
230 / 115 V
230 / 115 V