

# X-RiteColor Premier 8400 Benchtop Spektralfotometer



X-RiteColor premier 8400 Benchtop spectral photometer

- 400 nm and 420 nm UV shielding filter
- Middle repeatability 0.01? E\* (on white)
- Zwischengerätliche correspondence: Average 0.08? E\* (19.0 mm of screen); maximum 0.30? E\* (13 tiles BCRA)

The spectral table devices in 8400 were developed for the guarantee by global standards within a company. It works together excellently with all colour measuring systems and hand devices of X Rite. The table devices of the series in 8000 are the new standard for precision, exactness and functional variety. This in 8400 offers you the functions of the, and other functions in 8200 like improved zwischengerätliche correspondence and ability for reproduction of measuring values.

In every detail the best spectral photometer under the table devices.

X-Rite has turned by the development directly to the users of table devices to get to know more about their demands for a spectral photometer. Our answer to your needs is a table device which corresponds to your demands and is based, besides, on the advanced technology, the X-Rite has helped to the market-leading position. The new high-carat X-RiteColor® premier in 8400 is under the spectral table devices incredibly in his functional variety. It puts new graduations with his functions and excels your expectations of measuring exactness and precision. Together with the premier in 8200 this series has succeeded all around and contrasts clearly with up to now available measuring instruments in this area.

12 special signs which speak for X-Rite:

1. Exact order of the tests by internal camera – Saving time, and the measurement claps right away

The premier in 8000 series is the first row of spectral table devices which disposes of a built-in video camera. This innovation enables to you to look at a digital picture of the test on your screen with which you can check the test position before the measurement. X Rite this technology has applied for a patent.

2. Horizontal and vertical installation – So many-sided as two measuring instruments

This spectral table device works in two different positions, horizontally and vertically. In the normal horizontal position you can measure vertically standing tests (front loader). Turn the device around 90 ° in the vertical position to place loose tests like powder and liquids easily about the screen (top loader).

3. Uncomplicated access to the Durchlichtkammer – the highest flexibility for tests of all kind

The measuring instrument has an extra-wide access to the Durchlichtkammer and allows to you thus the measurement of big tests and the use of different test holders and Küvetten. In addition, the device can carry out direct and indirect Durchlichtmessungen. They receive easily exact Durchlichtund absorption measurements without time-luxurious settings no matter whether you measure clear plastics, glass, colouring or liquids.

4. Zwischengerätliche correspondence – Together colour data work on

The premier in 8400 integrates himself completely into the existing model rows of X-Rite for the professional colour measurement. The measuring data are not only constantly within this device series, but also with the portable ball devices of X-Rite. Thus colour data about a complete production expiry can be used in different production plants together no matter whether between different labs, or from lab to manufacture, the colour data stay the same. The premier in 8400 is exactly right for you if you search a global solution for your enterprise.

5. Eligible lighting filters – absolute flexibility with the measurement

*The premier in 8400 comes normally with UV filters (400 nm and 420 nm) and with a simulation filter for light kind A, while this is delivered in 8200 ex works only with 400 nm filter. With the UV filter you can recognise whether the test contains fluorescent material, during the simulation filters for light kind A the correspondence of the measuring*

values also with fluorescent tests with those of portable X Rite spectral photometer guarantees.

#### 6. Tough, maintenance-free Spectralon® ball – raised measuring exactness with diminished maintenance costs

*This measuring instrument is the only spectral table device whose ball completely exists of Spectralon, and the not like other devices only one reflektive coating has. Spectralon is a robust reflecting material experienced in the science which was patented of X-Rite. Spectralon does not corrode and shows no ageing phenomena like flaking off, cracking and going yellow. Therefore are cancelled the time-luxurious and cost-luxurious servicing work with which you must live, otherwise, by coated ball devices. Spectralon is highly reflective and delivers therefore the best measuring results.*

#### 7. Universal test holder – practical fixture for tests of all kind

*The test holder offers you many ingenious functions which make easier the work to you.*

*Fitted with springs test arm: Springy stored arm protects the test and the measuring instrument.*

*Regulable filing for the test adjustment: The fixable hold device with which you can place tests always immediately and accurately.*

*Arrestable fixture: If the locking of the test holder allows in open position.*

#### 8. Internal and more externally Protection-preventing soiling

*The measuring instrument has a built-in protection before injurious influence. A record of optical glass protects the lamp against damage. The second optional protective record serves as a hose protection if the device is aimed vertically.*

#### 9. Interface IUSB – Easy, trouble-free connection with the PC

*This measuring instrument is the first table device with an interface USB which offers them the comfort of Plug & Play.*

#### 10. Automatic UV calibration for fluorescence – Avoiding mistake and saves time

*The X-Rite programme enables to you to fix automatic UV Kalibrierpunkte for the fluorescence measurement. This function is especially time-saving for areas in which fluorescence is controlled.*

#### 11. Different screen devices – individual adaptation according to measuring object

*The premier in 8000 series offers you three different screens with in addition to suitable screen articles. Thus you can adapt the screen to the format of the tests, and achieve a higher exactness with less measurements. This sign is an advantage particularly if they measure of frequent tests, very differently procure are.*

#### 12. User-defined device configuration – Expeditiously by measurement to measure

*The programme X-RiteColor® master which is available for the quality assurance as well as for the Farbrezeptierung steers all functions the premier in 8000 series. That's why an operating keyboard or similar in the device is unnecessary. With the programme you can store the most often used device configurations, and call away fast at the touch of a button and explain. This efficient function enables to you to measure a big number of tests within short time under different conditions. She is also suited very well in a Mehrbenutzerkonfiguration with which every user can store away own settings per activity area.*

*X-RiteColor premier 8400 specifications (top-of-the-line model)*

*Spectral photometer Horizontally and vertically*

*Measuring geometry d/8 °*

*Ball diameter 150 mm (Spectralon®)*

*Brilliant component with / without shine*

*Detector photodiode arrangement with holografischem grid (2x)*

*Source of light pulsed xenon*

*Photo-metrical area 0-200%*

*Spectral range 360-740 nm*

*Wavelength interval 10 nm*

*Reflecting resolution 0.001%*

*Zwischengerätliche medium 0.08 ?E\* (19.0 mm of screen)*

*Correspondence max. 0.30 ?E\* (13-BCRA tiles)*

*Repeatability on white medium 0.01 ?E\**

*Status announcement LED*

*Measuring duration approx. 2 sec.*

*Weight 21.3 kg*

*Interface USB*

*Durchlichtmessungen Directly and indirectly*

*Fluorescence measurements Autom. UV calibration*

*UV shielding filter 400 nm and 420 nm filter for light kind A*

*Consideration screen 4,0/8,0/19,0 mm*

*Exposure screen 6,5/12,7/25,4 mm*

*Necessary computer Windows PC*

*Necessary use X-RiteColor® master*

*Test holder Fitted with springs, with adjustable test adjustment*

*Test order digital camera with grid mask*

*Ball protection internal ball protection and optional cover for the vertical test situation*

*Standard guarantee 1 year*

*Additional options for sale*

*Screen article for the protection of the ball*

*Fixture for Küvetten*

*Electricity supply:*

*110 V 50/60 hertz*

*230 V 50/60 hertz*

*Surroundings terms:*

*Operating temperature area 10 ° to 40 ° C*

*85% rel. Air humidity (not condensing)*

**System requirements**

**(Windows 98 SE), Windows 2000 or higher**

**Interface USB**

**CD-ROM disk drive**

**System components**

**Spectral table device**

**Kalibrierstandards**

**Net cable**

**Company manual**

**Cable USB**

**3 screen articles**

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