

TECHNICAL REQUIREMENTS
to the procedure regarding the procurement of maintenance and
modernization services of the video-spectral comparator Regula 4307

1. Maintenance services shall be performed for all components of the main block and additional components of the comparator and shall include:

- external and internal cleaning of the comparator, in particular of the optical inner tract, illuminators, filters and spectrometer;
- treatment with special lubricating materials of the moving parts;
- checking the compliance with the requirements of the spectrum and intensity of lighting sources and filters and the replacement of defective components and those that work incorrectly;
- adjusting the optical image playback tract to all optical magnifications to remove distortion;
- adjusting the image focusing system in all lighting spectra and all optical magnifications;
- calibration of the dimensional measurement system through the optical tract;
- calibration of the positioning system of the spectrometer in all modes and for different thicknesses of the examined object;
- calibration of the color spectrometer measurement system in all modes and for different thicknesses of the examined object;
- performing other tasks according to p. 3.12.2 of the User Manual of the video-spectral comparator Regula 4307 („Паспорт РГВИ.139.000.00 ПС”).

2. Modernization of the video-spectral comparator Regula 4307 must be carried out by implementing a new lighting source type CIE D50 with geometry (45 °: 0 °) in the mode of use of the spectrometer in accordance with the requirements of the standard SM ISO 13655: 2019 "Printing technology . Spectral measurement and colorimetric calculation for graphic images "

It is also necessary to make all software changes to ensure the real-time and accurate presentation of the results of spectrometric measurements when using the CIE D50 lighting source.

The upgrade must not affect other operating modes of the comparator.