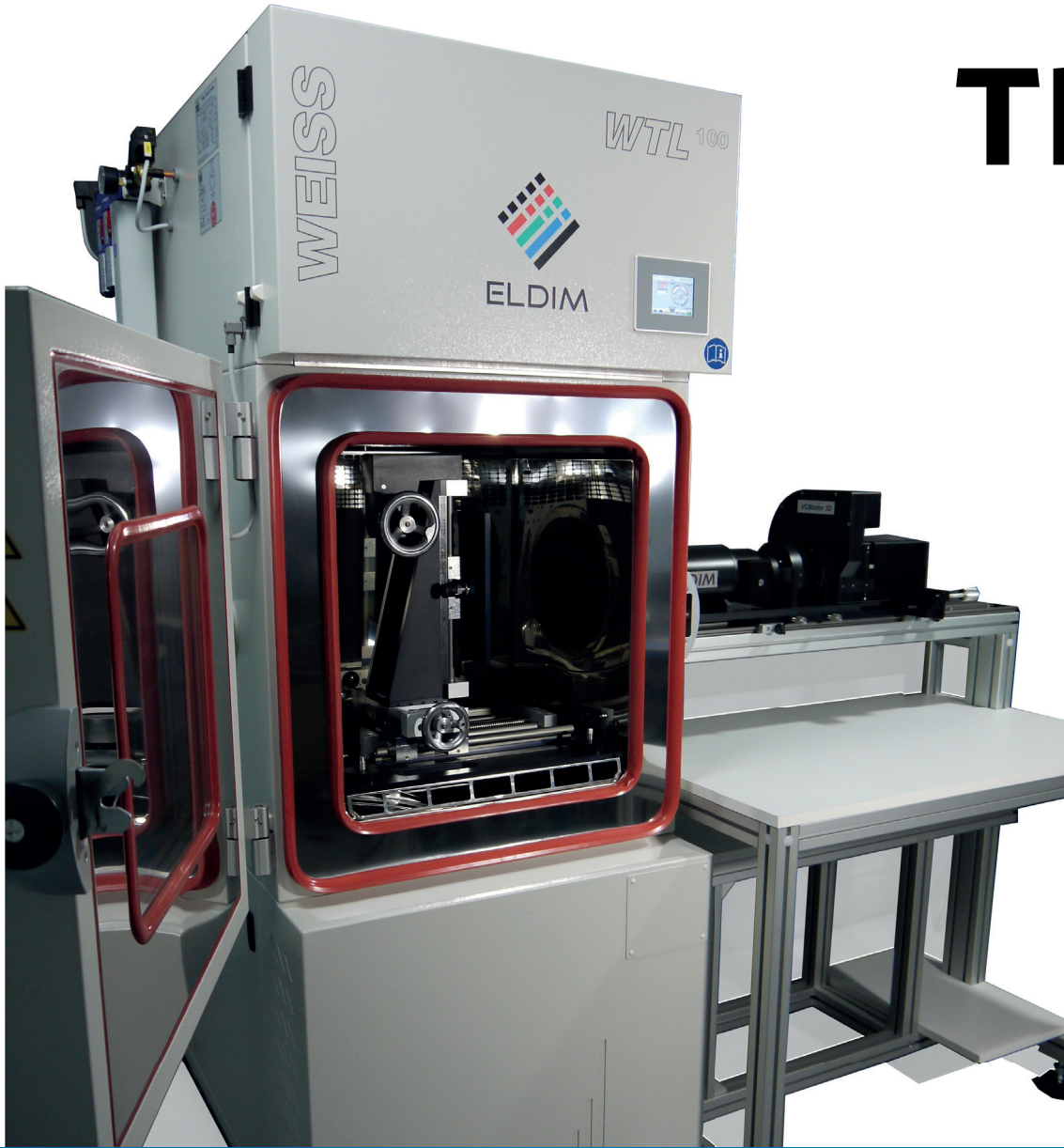


THOR5



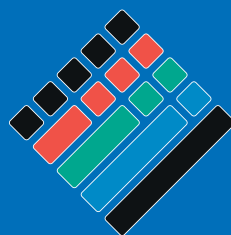
FEATURES

- Fully automated $\pm 80^\circ$ or $\pm 88^\circ$ viewing angle test station for displays
- All included station: Measuring system EZContrast and its valets, thermic chamber and automated XYZ stage
- High Flexibility, Accuracy and ease of use

APPLICATIONS

- Viewing angle analysis for QC or R&D
- Automated stage for fast and easy testing
- Environmental impact on displays optical characteristics checked with the use of temperature chamber from -40° to $+85^\circ\text{C}$
- Reflective properties and/or spectral characteristics of displays available as options

THOR5 system is an automated measurement station which offers easily an evaluation of displays up to 20" in specific temperature environment. The design is modular and allows a use of the station with or without the temperature chamber. This complete measurement station is an accurate and automated solution which delivers complete test results report with the automation software provided.

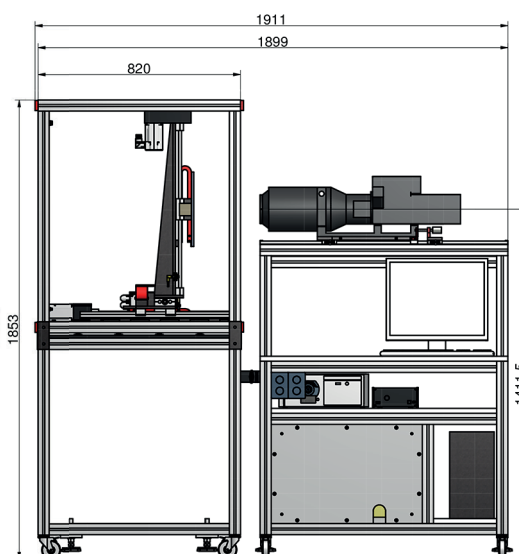
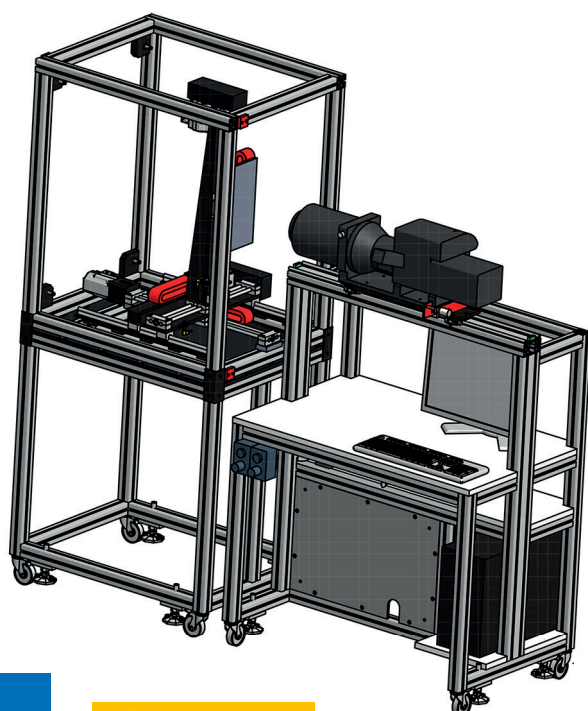


ELDIM

OPTICAL METROLOGY FOR DISPLAYS

Specifications		THOR5
Field coverage	Incident angle Azimuth angle	0-80° or 0-88° 0-360°
Measuring area	Maximum diameter	2mm
Optimum distance	Ensure light coming from same spot at any angle	3.7mm or 1mm
Sensor	Peltier cooled CCD Resolution A/D converter	Yes 6M 14-16 bits
Chromaticity	Color Filters	6
Measurement Modes	Luminance Chromaticity	Yes Yes
Luminance Range	Minimum (cd/m ²) Maximum (cd/m ²) - on option with neutral density	0.001 1000000
Accuracy	Angular position Angular resolution Luminance Chromaticity (x,y) RMS	±0.3° ±0.3° ±3% ^{(*)3} 0.002 ^{(*)4}
Repeatability	Luminance Chromaticity (x,y) RMS	±0.05% ^{(*)5} 0.0001 ^{(*)5}
Measurement time	Luminance Chromaticity	< 10s ^{(*)6} < 20s ^{(*)6}
Thermic Chamber	Test space volume (liter) Test space dimensions (mm) External dimensions (mm)	990 height: 500; width: 490; depth: 400 height: 1190; width: 780; depth: 930
Manual XYZ Stage	Courses X Courses Y Courses Z Removable Sampler Holder Accuracy	±300mm ±350mm ±500mm 5kg max charge 0.1mm
PC and software included		

THOR5 Outer dimension (unit mm)



^{(*)1} All the systems use 5 color filters matched on the CCD response (2 for X, 2 for Y and 1 for Z)

^{(*)2} Maximum luminance is given for the maximum spot diameter

^{(*)3} The accuracy is guaranteed for any type of color stimuli in contrast to competitors that generally guaranty only reference white. The luminance accuracy is guaranteed for a luminance higher than 50cd/m².

^{(*)4} For A type illuminant

^{(*)5} For a luminance higher than 50Cd/m² based on 100pixels

^{(*)6} Measurement times are highly dependent on the target and on the conditions. Given times are for a source with luminance level higher than 50Cd/m² and already determined exposition times for all the filters.

Specifications can be change without notice

THOR5 V1.0 05/2016 ©ELDIM S.A.