Raport de activitate pentru anul 2025

COMITET TEHNIC ASRO/CT 230

Activ

Optică și instrumente optice

1. Informații generale

1.1 Domeniu de activitate:

Standardizarea componentelor optice, telescoapelor, microscoapelor, endoscoape, instrumentelor oftalmice, sistemelor și componentelor pentru laser, instrumentelor geodezice și în domeniul opticii oftalmice.

1.2 Comitete tehnice europene/internaționale corespondente:

CEN/CLC/ETSI		**ISO/IEC**		
TC (nr.)	Denumire TC *(limba engleză)*	TC SC (nr.)	Denumire TC *(limba engleză)*	Statut ASRO (O sau P)
CEN/TC 123	Lasers and photonics	ISO/TC 172	Optics and photonics	P
CEN/TC 170	Ophthalmic optics	ISO/TC 172/SC 1	Fundamental standards	P
		ISO/TC 172/SC 3	Optical materials and components	P
		ISO/TC 172/SC 4	Telescopic systems	P
		ISO/TC 172/SC 5	Microscopes and endoscopes	O
		ISO/TC 172/SC 6	Geodetic and surveying instruments	O
		ISO/TC 172/SC 7	Ophthalmic optics and instruments	O
		ISO/TC 172/SC 9	Laser and electro-optical systems	O

1.3 Componența la momentul întocmirii raportului de activitate:

Președinte: URSU Dănuț Vasile (ales în anul 2010)

Expert ASRO: IVAȘCU Cornelia (de la data 01.04.2025)

Secretar: SOROHAN Georgeta - PRO OPTICA (de la data 06.12.2010)

Membri:

Membru CT		**Tip de organizație**	**Expert WG** *(se specifica WG ul acolo unde este cazul)*
Reprezentant *(nume, prenume)*	**Instituție**		
URSU Dănuț Vasile	Institutul de Cercetare Dezvoltare pentru Industria Optica Româna	Institut	ISO/TC 172/SC1 WG1/General optical test methods
SOROHAN Georgeta	Institutul de Cercetare Dezvoltare pentru Industria Optica Româna	Institut	ISO/TC 172/SC1 WG1/General optical test methods
SPOREA Dan	Institutul Naţional de Fizica Laserilor, Plasmei şi Radiaţiei	Institut	
GRANCIU Dana	PF	Persoană Fizică	ISO/TC 172/SC 1 WG 1/General optical test methods ISO/TC 172/SC1 WG 2/Preparation of drawings for optical elements and systems ISO/TC 172/SC 3 WG 3/ Characterization of IR materials ISO/TC 172/SC 3 WG 1/Raw optical glass ISO/TC 172/SC 3 WG 2/Coatings ISO/TC 172/SC 4 WG 2/Telescopic sights
TRUFAŞU Aurelian Ovidius	Universitatea Națională de Știință și Tehnologie POLITEHNICA București - Facultatea de Inginerie Mecanică și Mecatronică	Instituție de învățământ	CEN/TC 170/WG 9/Instruments and test methods for assessing drivers' vision

2. INFORMAȚII DESPRE ACTIVITATE DESFĂȘURATĂ ÎN ANUL 2025

2.1 Număr de standarde aprobate în anul pentru care se efectuează evaluarea

Standarde române originale	elaborare	
	revizuire	
Standarde române originale examinate		
Versiune română (TR, NCT, FCT)		
Notă de confirmare (NC)		14
Filă de confirmare (FC)		
Total standarde		14

Tabelul conține exclusiv activitățile desfășurate în anul pentru care se efectuează evaluarea

2.2 Standarde aprobate în anul 2025 cu finanțare

MEDAT – 14 NC

2.3 Număr ședințe desfășurate în anul pentru care se efectuează evaluarea

Nr. de ședințe: 1

2.4 Documente analizate și votate

Organizaţie	Număr documente analizate și votate	Observații transmise in etapa de vot
CEN	27	
CENELEC		
ETSI		
ISO	111	• proiect de standard ISO: ISO/FDIS 11421 (05.10.2025), • standard review ISO: ISO 14132-1, ISO 14132-2, ISO 14490-6 (01.12.2025)
IEC		

2.5 Participări ale experților români la reuniunile organizațiilor europene și internaționale de standardizare:

Data	TC	Discutii	tematica
29.09.2025, 16.10.2025	ISO TC 172/ SC1	Sedinta plenara	- raportul secretariatului; comentarea rezolutiilor speciale active; alte rapoarte.
18.03.2025	ISO TC 172/ SC1/WG1	Discutii tehnice	- ISO/WD 9358 “Optics and Photonics — Stray light” - ISO/DIS 11421.2 “Optics and optical instruments — Accuracy of optical transfer function (OTF) measurement” - ISO 9335 “Optics and photonics — Optical transfer function — Principles and procedures of measurement” - ISO/CD 14999-4 “Optics and photonics — Measurement of optical elements and optical systems — Part 4: Interpretation and evaluation of surface form and wavefront deformation tolerances specified in ISO 10110”

Data	TC	Discutii	tematica
13.05.2025	ISO TC 172/ SC1/WG1	Discutii tehnice	- ISO/DIS 11421.2 “Optics and optical instruments — Accuracy of optical transfer function (OTF) measurement
07.10.2025	ISO TC 172/ SC1/WG1	Discutii tehnice	- ISO/FDIS 11421.2 “Optics and photonics — Uncertainty of optical transfer function (OTF) measurement” - ISO/ WD 9358.2 “Optics and Photonics – Stray light” - ISO 15529:2010 “Optics and photonics — Optical transfer function — Principles of measurement of modulation transfer function (MTF) of sampled imaging systems”
08.05.2025	ISO TC 172/ SC1/WG2	Discutii tehnice	- High- Level Update on ISO 9211 Series Projects: Optics and photonics — Optical coatings - Update on ISO 10110-9 – PWI Optics and photonics — Preparation of drawings for optical elements and systems — Part 9: Surface treatment and coating
15.10.2025	ISO TC 172/ SC1/WG2	Discutii tehnice	- Discussion on Systematic Review (SR) for ISO 10110-19: Optics and photonics — Preparation of drawings for optical elements and systems — Part 19: General description of surfaces and components - Review of joint web meetings with SC 3/WG 2, and Update on ISO/PWI 10110-9: Optics and photonics — Preparation of drawings for optical elements and systems — Part 9: Surface treatment and coating - Discussion on ISO 12123, and Update on ISO/PWI 10110-18: Optics and photonics — Preparation of drawings for optical elements and systems — Stress birefringence, bubbles, and inclusions,homogeneity, and striae - Discussion on ISO 10110-14: Optics and photonics — Preparation of drawings for optical elements and systems — Wavefront deformation tolerance - Discussion on ISO 10110-17 and ISO 21254-1: Optics and photonics — Preparation of drawings for optical elements and systems — Laser irradiation damage threshold - ISO/DIS 10110-5 “Optics and Photonics — Preparation of drawings for optical elements and systems — Part 5: Surface form tolerances” - Discussion on GPS Resolution 18/2024 - Discussion on ISO/PWI 10110-1: Optics and photonics — Preparation of drawings for optical elements and systems — Part 1 : General
10.12.2025	ISO TC 172/ SC1/WG2	Discutii tehnice	- Discussion on ISO/PWI 10110-1: Optics and photonics — Preparation of drawings for optical elements and systems — Part 1 : General
02.10.2025 17.10.2025	ISO TC 172/ SC3	Sedinta plenara	- raportul secretariatului; rezolutii; alte rapoarte.
23.04.2025	ISO TC 172/ SC3/WG1	Discutii tehnice	- ISO/DIS 9689 “Resistance to attack by acqueous alkaline phosphate-containing detergent solutions at 50 degrees C — Testing and classification” - ISO/DIS 6760-1 “Optics and photonics — Test method for temperature coefficient of refractive index of optical glasses — Part 1: Minimum deviation method” - ISO/PWI 10629 “Raw optical glass — Resistance to attack by aqueous alkaline solutions at 50 degrees C — Test method and classification” - 5.4. ISO/PWI 12123 “Optics and photonics — Specification of raw optical glass“ - ISO/AWI 15368-2 “Optics and photonics — Measurement of reflectance and transmittance — Part 2: Internal transmittance“ - ISO/DIS 21575 “Optics and photonics — Optical materials and components— The powder test method for the water resistance of optical glass”

Data	TC	Discutii	tematica
27.08.2025	ISO TC 172/ SC3/WG1	Discutii tehnice	- ISO/WD 15368-2 “Optics and photonics — Measurement of reflectance and transmittance — Part 2: Internal transmittance“ - ISO/DIS 21575 “Raw optical glass — The powder test method for the water resistance of optical glass — Test method and classification” - ISO/PWI 12123 “Optics and photonics — Specification of raw optical glass
06.10.2025	ISO TC 172/ SC3/WG1	Discutii tehnice	- ISO/SR 21395-1:2020 “Optics and photonics — Test method for refractive index of optical glasses — Part 1: Minimum deviation method” - ISO/SR 22531 “Optics and photonics — Optical materials and components— Test method for climate resistance of optical glass” - ISO/NP 10629 “Raw optical glass — Resistance to attack by aqueous alkaline solutions at 50 degrees C — Test method and classification” - ISO/NWIP 12123 “Optics and photonics — Specification of raw optical glass”
10.10.2025	ISO TC 172/ SC3/WG2	Discutii tehnice	- Discussion on ISO/CD 9211-5: Optics and photonics — Optical coatingsPart 5: Minimum requirements for antireflecting coatings - Discussion on ISO/CD 9211-6: Optics and photonics — Optical coatings — Part 6: Minimum requirements for reflecting coatings - Discussion on ISO/CD 9211-8: Optics and photonics — Optical coatings — Part 8: Minimum requirements for coatings used for laser optics - Discussion on ISO 9211-2:2024/PWI Amd 1 Optics and photonics — Optical coatings — Part 2: Optical properties - Discussion on Germany Proposed ISO 9211-3 Informative Amendment: Optics and photonics — Optical coatings — Part 3: Optical properties - Status updates on ISO/PWI 10110-9 revision in SC 1 and ISO 21254-1:2025comp leted revision in SC 9
09.10.2025	ISO TC 172/ SC3/WG3	Discutii tehnice	- ISO 8237:2024 “Optics and photonics — Optical materials and components — Specification of chalcogenide glass used in the infrared spectrum” - ISO 19741:2025 “Optics and photonics — Optical materials and components — Test method for striae in infrared optical materials” - ISO 22576 “Optics and photonics — Optical materials and components — Specification of calcium fluoride used in the infrared spectrum” - ISO/PWI XXXXX “Optics and photonics — Optical materials and components — Test method for temperature coefficient of refractive index of infrared optical materials”
13.03.2025	ISO TC 172/ SC4	Sedinta plenara	- raportul secretariatului; rezolutii.
13.03.2025	ISO TC 172/ SC4/WG2	Discutii tehnice	- Discussion comments to ISO/DIS 14133 Optics and photonics — Specifications for binoculars, monoculars and spotting scopes - General purpose and high performance instruments - Check Manuscript of ISO/PWI 14135, Optics and photonics — Specifications for telescopic sights — General purpose and high performance instruments (merging Part 1 and Part 2) - Check Manuscript of ISO/CD 21094, Optics and photonics — Telescopic systems — Specifications for analog night vision decives —Monoculars, binoculars and biocular s
23.06.2025	ISO TC 172/ SC4/WG2	Discutii tehnice	- ISO/AWI 14135, Optics and photonics — Specifications for telescopic sights — General purpose and high performance instruments (merging Part 1 and Part 2) - ISO/CD 21094, Optics and photonics — Telescopic systems — Specifications for analog night vision decives — Monoculars, binoculars and biocular s

Data	TC	Discutii	tematica
			- ISO/CD 14132-5, Optics and photonics — Vocabulary for telescopic systems — Part 5: Terms for night vision devices - ISO/PWI 20711, Optics and photonics — Environmental requirements— Test requirements for telescopic systems
14.10.2025	ISO TC 172/ SC4/WG2	Discutii tehnice	- ISO/CD 14135, Optics and photonics — Specifications for telescopic sights — General purpose and high performance instruments (merging Part 1 and Part 2) - SO/CD 21094, Optics and photonics — Telescopic systems — Specifications for analog night vision decives — Monoculars, binoculars and bioculars ISO/PWI 20711, Optics and photonics — Environmental requirements— Test requirements for telescopic systems
09.12.2025	ISO TC 172/ SC4/WG2		- ISO/CD 21094, Optics and photonics — Telescopic systems — Specifications for analog night vision decives — Monoculars, binoculars and bioculars - ISO/CD 14135, Optics and photonics — Specifications for telescopic sights — General purpose and high performance instruments (merging Part 1 and Part 2)

SEDINTE COMUNE (ALE UNOR GRUPURI DE LUCRU)

Data	TC	Discutii	Tematica
08.10.2025	ISO TC 172/ SC1/WG1 și ISO TC 172/ SC3/WG1	Discutii tehnice	- ISO/WD 15368-2 “Optics and photonics — Measurement of reflectance and transmittance — Part 2: Internal transmittance“
10.02.2025	ISO TC 172 /SC1/WG1 și ISO TC 172/ SC1/WG2	Discutii tehnice	- ISO/CD 14999-4 “Measurement of optical elements and optical systems — Part 4: Interpretation and evaluation of surface form and wavefront deformation tolerances specified in ISO 10110” - ISO/CD 10110-5 “Optics and Photonics — Preparation of drawings for optical elements and systems — Part 5: Surface form tolerances”
01.10.2025	ISO TC 172/ SC1/WG1 și ISO TC 172/ SC1/WG2	Discutii tehnice	- ISO/DIS 14999-4 “Measurement of optical elements and optical systems — Part 4: Interpretation and evaluation of surface form and wavefront deformation tolerances specified in ISO 10110” - ISO/DIS 10110-5 “Optics and Photonics — Preparation of drawings for optical elements and systems — Part 5: Surface form tolerances”
24.07.2025	ISO TC 172/ SC1/WG2 și ISO TC 172/ SC3/WG2	Discutii tehnice	- ISO 10110-9 – PWI: Optics and photonics — Preparation of drawings for optical elements and systems — Part 9: Surface treatment and coating

PROJECT LEADER PENTRU:

- ISO/CD 21094, Optics and photonics — Telescopic systems —Specifications for analog night vision decives — Monoculars, binoculars and bioculars
- ISO/CD 14132-5, Optics and photonics — Vocabulary for telescopic systems — Part 5: Terms for night vision devices

2.6 Evenimente, cursuri, reuniuni ale organizațiilor europene și internaționale de standardizare, workshop-uri etc asociate cu ASRO/CT 230

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2.7 Analiza și emiterea avizelor, dacă este cazul, în etapa de consultare a elaborării de acte normative de către autoritatea de reglementare din domeniu

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3. ANALIZA PATRIMONIULUI DE STANDARDE (la data evaluării)

Patrimoniul ASRO/CT 230 cuprinde **144** standarde din care:

Tip de standard	Număr standarde
standarde române originale	18
standarde române care adoptă standarde sau documente de standardizare europene	118
standarde române care adoptă standarde sau documente de standardizare internaționale	8

Metodă de adoptare	Număr standarde
NC	95
FC	3
TR, NCT, FCT	28

4 Program de lucru pentru anul în curs

4.1 Proiecte de standarde de la nivel european și internațional aflate în program:

Anchetă și vot proiecte	Nr.
CEN	27
ISO	71
CENELEC	
IEC	
ETSI	

Până la sfârșitul anului în curs în programul de lucru CEN/ISO, IEC/CENELEC și ETSI pot intra și alte proiecte față de numărul precizat mai sus.

4.2 Proiecte de la nivel național aflate în program:

Tip de proiect	Număr
elaborare standarde române originale	-
revizuire standarde române originale	-
examinare standarde române originale	5
alt tip de proiect (ghid, îndrumător, etc)	-
total: 0	

4.3 Adoptare de standarde și documente de standardizare europene/internaționale ca standarde române:

Metodă de adoptare	Nr.
NC	10
FC	
NCT,FCT	

5 Comentarii Comisie de Evaluare

În urma analizei raportului de activitate a ASRO/CT 230, Comisia de evaluare nu are recomandări specifice pentru activitatea ASRO/CT 230

6 Concluzii și propuneri:

ASRO/CT 230

Menținere stare	Activ	☒
	Suspendat	☐
Modificare stare	Activare	☐
	Suspendare	☐
	Comasare	☐
	Divizare	☐
	Desființare	☐