

# DIN SPEC 15587:2019-04 (E)

## Recommendations for digitization of cinematographic film

---

<b>Contents</b>	<b>Page</b>
Foreword .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions.....	7
4 Principles of handling cinematographic film material.....	12
4.1 General .....	12
4.2 Marking .....	12
4.3 Air conditioning/adjustment .....	12
4.4 Transport.....	13
4.5 Intermediate storage.....	14
4.6 Handling.....	14
4.6.1 General .....	14
4.6.2 Health hazards.....	14
4.6.3 Danger to the film material.....	16
4.6.4 Danger to film technology .....	16
5 Description of the digitization workflow.....	16
5.1 Principles.....	16
5.1.1 Logging the workflow.....	16
5.1.2 Preservation of authenticity.....	17
5.2 Search for existing film material.....	17
5.3 Diagnosis of film materials .....	18
5.3.1 Indexing .....	18
5.3.2 Technical diagnosis.....	18
5.4 Preparatory technical work on film materials .....	19
5.4.1 Repairs.....	19
5.4.2 Packaging.....	21
5.4.3 Conditioning.....	21
5.4.4 Cleaning technologies .....	21
5.5 Digitization — RAW scan .....	23
5.5.1 RAW scan image .....	23
5.5.2 RAW sampling /scan sound .....	31
6 Further processing of digitized materials .....	35
6.1 General .....	35
6.2 Processing and testing conditions for AV digitized materials .....	36
6.2.1 Processing and testing conditions for digitized images.....	36
6.2.2 Processing and testing conditions for digitized sounds.....	36
6.3 Production of a processing package (P-P).....	36
6.3.1 General .....	36
6.3.2 Production of an image processing package .....	37
6.3.3 Production of the sound processing package.....	39
6.4 Production of a distribution package (D-P).....	39
6.4.1 General .....	39
6.4.2 Production of an image distribution package.....	39
6.4.3 Production of a sound distribution package .....	40

6.4.4	Creating foreign language subtitles.....	40
6.4.5	Creation of elements for barrier-free access.....	40
6.5	Production of a deliverable package (DA-P) .....	40
6.5.1	General .....	40
6.5.2	Production of an image deliverable package .....	40
6.5.3	Production of a sound deliverable package.....	41
6.5.4	Creating replay and packing lists .....	41
7	Capturing all relevant metadata and use of metadata standards.....	41
Annex A (informative)	Technical findings .....	42
A.1	Sample format description .....	42
A.2	Sample status description .....	43
Annex B (informative)	Digitization and further processing stages of the digitized material (without compression options).....	44
Annex C (informative)	Digitization and further processing stages of the digitized material with compression options .....	45
Bibliography	.....	46