

Dataset

Dataset	Class	Normal	Abnormal	Total	Annotation level	Source	Time
AITEX	1	140	105	245	Segmentation mask	RGB real	2019
Anomaly-ShapeNet	40	-	-	1600	Point-level mask	Point-cloud synthetic	CVPR,2024
BTAD	3	-	-	2830	Segmentation mask	RGB real	2021
DAGM	10	-	-	11500	Segmentation mask	RGB synthetic	2007
DEEPPCB	1	-	-	1500	Bounding box	RGB synthetic	2019
DTD-Synthetic	12	-	-	-	Segmentation mask	RGB synthetic	WACV,2024
Eyecandies	10	13250	2250	15500	Segmentation mask	RGBD synthetic image	ACCV,2022
Fabirc dataset	1	25	25	50	Segmentation mask	RGB synthetic	PR,2016
GDXray	1	0	19407	19407	Bounding box	RGB real	2016
KolekrotSDD	1	347	52	399	Segmentation mask	RGB real	JIM,2019

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KolekrotSDD2	1	2979	356	3335	Segmentation mask	RGB real	Cil,2021
MIAD	7	87500	17500	105000	Segmentation mask	RGB synthetic	2023
MPDD	6	1064	282	1346	Segmentation mask	RGB real	ICUMT,2021
MVTec AD	15	4096	1258	5354	Segmentation mask	RGB real	CVPR,2019
MVTec 3D-AD	10	2904	948	3852	Segmentation mask	RGB real	VISAPP,2021
MVTec LOCO-AD	5	2347	993	3340	Segmentation mask	RGBD real	IJCV,2022
NanoTwice	1	5	40	45	Segmentation mask	RGB real	TII,2016
NEU surface defect	1	0	1800	1800	Bounding box	RGB real	2013
PAD	20	5231	4902	10133	Segmentation mask	RBG synthetic	NeurIPS,2023
Real-IAD	30	51329	99721	151050	Segmentation mask	RGB real	CVPR,2024
Real3D-AD	12	652	602	1254	Point-level mask	Point-cloud real	NeurIPS,2023
RSDD	2	-	-	195	Segmentation mask	RGB real	2017

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Steel defect detection	1	-	-	18076	Image	RGB real	2019
Steel tube dataset	1	0	3408	3408	Bounding box	RGB real	2021
VisA	12	9621	1200	10821	Segmentation mask	RGB real	ECCV,2022

- (NEU surface defect dataset)A noise robust method based on completed local binary patterns for hot-rolled steel strip surface defects [\[2013\]](#) [\[data\]](#)
- (Steel tube dataset)Deep learning based steel pipe weld defect detection [\[2021\]](#) [\[data\]](#)
- (Steel defect dataset)Severstal: Steel Defect Detection [\[data 2019\]](#)
- (NanoTwice)Defect detection in SEM images of nanofibrous materials [\[TII 2016\]](#) [\[data\]](#)
- (GDxray)GDxray: The database of X-ray images for nondestructive testing [\[2015\]](#) [\[data\]](#)
- (DEEP PCB)Online PCB defect detector on a new PCB defect dataset [\[2019\]](#) [\[data\]](#)
- (Fabric dataset)Fabric inspection based on the Elo rating method [\[PR 2016\]](#)
- (KolektorSDD)Segmentation-based deep-learning approach for surface-defect detection [\[Journal of Intelligent Manufacturing\]](#) [\[data\]](#)
- (KolektorSDD2)Mixed supervision for surface-defect detection: From weakly to fully supervised learning [\[Computers in Industry 2021\]](#) [\[data\]](#)
- (RSDD)A hierarchical extractor-based visual rail surface inspection system [\[2017\]](#)
- (Eyecandies)The Eyecandies Dataset for Unsupervised Multimodal Anomaly Detection and Localization [\[ACCV 2022\]](#) [\[data\]](#)
- (MVTec AD)MVTec AD: A comprehensive real-world dataset for unsupervised anomaly detection [\[CVPR 2019\]](#) [\[IJCV 2021\]](#) [\[data\]](#)
- (MVTec 3D-AD)The mvtec 3d-ad dataset for unsupervised 3d anomaly detection and localization [\[VISAPP 2021\]](#) [\[data\]](#)
- (MVTec LOCO-AD)Beyond Dents and Scratches: Logical Constraints in Unsupervised Anomaly Detection and Localization [\[IJCV 2022\]](#) [\[data\]](#)

- (MPDD)Deep learning-based defect detection of metal parts: evaluating current methods in complex conditions [\[ICUMT 2021\]](#) [\[data\]](#)
- (BTAD)VT-ADL: A vision transformer network for image anomaly detection and localization [\[2021\]](#) [\[data\]](#)
- (VisA)SPot-the-Difference Self-supervised Pre-training for Anomaly Detection and Segmentation [\[ECCV 2022\]](#) [\[data\]](#)
- (MTD)Surface defect saliency of magnetic tile [\[2020\]](#) [\[data\]](#)
- (DAGM)DAGM dataset [\[data 2007\]](#)
- (MIAD)Miad:A maintenance inspection dataset for unsupervised anomaly detection [\[2022\]](#) [\[data\]](#)
- CVPR 1st workshop on Vision-based Industrial Inspection [\[homepage\]](#) [\[data\]](#)
- (SSGD)SSGD: A smartphone screen glass dataset for defect detection [\[2023\]](#)[\[dataset is coming soon\]](#)
- (AeBAD)Industrial Anomaly Detection with Domain Shift: A Real-world Dataset and Masked Multi-scale Reconstruction [\[2023\]](#) [\[data\]](#)
- VISION Datasets: A Benchmark for Vision-based Industrial Inspection [\[2023\]](#) [\[data\]](#)
- PAD: A Dataset and Benchmark for Pose-agnostic Anomaly Detection [\[NeurIPS 2023\]](#)
- PKU-GoodsAD: A Supermarket Goods Dataset for Unsupervised Anomaly Detection and Segmentation [\[2023\]](#)[\[data\]](#)
- Real3D-AD: A Dataset of Point Cloud Anomaly Detection [\[NeurIPS 2023\]](#)[\[data\]](#)
- InsPLAD: A Dataset and Benchmark for Power Line Asset Inspection in UAV Images [\[IJRS 2023\]](#)[\[data\]](#)
- Image-Pointcloud Fusion based Anomaly Detection using PD-REAL Dataset [\[2023\]](#)[\[data\]](#)
- CrashCar101: Procedural Generation for Damage Assessment [\[WACV 2024\]](#)[\[data\]](#)
- Defect Spectrum: A Granular Look of Large-Scale Defect Datasets with Rich Semantics [\[2023\]](#)[\[data\]](#)
- (DTD-Synthetic) Zero-shot versus Many-shot: Unsupervised Texture Anomaly Detection [\[WACV 2023\]](#)[\[data\]](#)
- Towards Scalable 3D Anomaly Detection and Localization: A Benchmark via 3D Anomaly Synthesis and A Self-Supervised Learning Network [\[CVPR 2024\]](#)[\[data\]](#)
- Real-IAD: A Real-World Multi-view Dataset for Benchmarking Versatile Industrial Anomaly Detection [\[CVPR 2024\]](#)[\[code\]](#)[\[data\]](#)