Datasheet for QoE Datasets. This template is intended to be used by both dataset creators as well as anyone using an already published dataset.

Note: If there are multiple datasets that are being used/proposed in a single work, please fill in a separate sheet for each individual dataset

Template Details (not to be modified)	Date Created:	28-April-2023	Date this template was first made publicly available
	Date Modified	NA	Date the template was modified, if applicable
	Version	v 1.0	Current Version Number

Section I: Dataset Overview		**Value**	**Additional Comments/Urls (as applicable)**	**Description of the field**
Provide generic information about your dataset here. It will allow the reader to quickly understand what this dataset is about and if it is relevant to their interests.	Dataset Name			Name of the dataset
	Dataset Abbreviation			Short form of the dataset name, if different from Dataset name
	Version			Version (default: v1.0)
	Creation/Publication Date/Year			Date the dataset was first published. If exact date not available, please add the year of creation
	Modification/Update Date (dd-mm-yyyy)			Date the dataset was last updated (write NA if not applicable/updated since creation)
	Repository			Link to the repository
	Citation (BibTex/PlainTex/Url)			Please add the required citation(s) or point to an url providing the citation
	License			MIT, Apache 2.0, BSD, etc.
	Open-Access?			Is the dataset fully open or password protected?
	Contact Information			Contact information of the authors/creators to send questions or comments about the dataset
	Dataset Size			(Approx) size of the full dataset (in GB)
	Additional Information?			Add any additional information, if available

Section II: Dataset Description		**Value**	**Additional Comments/Urls (as applicable)**	**Description of the field**
Source Videos Information about the various aspects about the source videos that are used in the study	Number of Source Sequences			Number of source sequences considered (audio, videos, etc.)
	Content Genre			Nature of source sequences (gaming, natural, animation, computer generated, etc.)
	Source Sequence Available?			Are source sequences made available as part of the dataset?
	Source Data Repository(ies)			Please write NA if the dataset includes source videos as a contribution.
	Bit-depth (s)			8-bit, 10-bit, 12-bit, 16-bit, etc.
	Dynamic Range			SDR/HDR (please add details where possible, e.g., transfer char, gamma, etc.)
	Frame rate(s)			Frame rate of the source videos, e.g., 24, 25, 30, 60, 120, 144, etc.
	Resolution(s)			Resolution of source videos
	Pristine/User Generated			Are the source sequences pristine or user generated/already compressed?
	Video Format			Format of the source videos, e.g., RawVideo, ProRes, HEVC Encoded, etc.
	Video Container			MP4, MKV, WEBM, Y4M
	Audio Format (if applicable)			Audio format, if available
	Video/Audio/Audiovisual			Type of source sequences (e.g.,video only, audio only, audiovisual)
	SI/TI Information			Is SI/TI [ITU-T Rec. 913] available in the dataset?
	Additional Information?			Add any additional information, if available
Encoding Settings Information about the encoding settings used in the dataset (also referred to as Hypothetical Reference Circuit (HRC)) in some works).	Encoder Implementation			e.g., FFmpeg, VTM, HM, etc.
	Encoder Type			Software/Hardware/Both
	Type of Software implementation			Reference/Practical/Both
	Rate Control			VBV, CBR, ABR, etc.
	Encoding Speed/Mode			e.g., FFmpeg: ultrafast, medium, slow, etc.
	Video Codec(s)			H.264, HEVC, VP9, AV1, VVC, AVS2, AVS3
	Resolution(s)			Encoding resolutions considered
	Framerate(s)			Encoding framerates considered
	Bit-depth			Encoded (video) sequences bitrates
	Artifacts Considered			Encoding, Scaling, Network (Stalling, Quality Changes, Packet Loss, etc.). Please add details
	Scenario considered			Type of streaming scenarios considered
	Additional Information?			Add any additional information, if available
Processed Video Sequences	Number of PVSs			How many PVSs are in total?
	Container Format			MP4, MKV, WEBM, Decoded Rawvideo (YUV), etc.
	Additional Information			Add any additional information, if available

Section III: Subjective Quality Assesment		**Value**	**Additional Comments/Urls (as applicable)**	**Description of the field**
Subjective Test Setup	Subjective Test Environment			Controlled (Lab), Public, Home-based, Crowdsourcing, Hybrid
	ITU Rec			Please mention if the test followed any specific ITU Rec such as BT.500-14, P.910, P.913
	Subjective test methods and rating scales			ACR(1-5), ACR(0-10), DSIS, CCR? If not standardized method, please describe in details.
	Rating Scale			Overall / Continuous (using a slider) / Both
	Display Type			TV, Mobile, Tablet, Desktop Monitor
	Display Size			Size of the display(s) used
	Display Resolution			Link to the device model, if available
	Viewing Distance			Viewing distance from the screen
	Viewing Angle			
	Subjective test schematic or photo			Is there any schematic or photo showing the lab test set up? If yes, please mention where it is available?
	Light Intensity in Test Room			Was device, room illuminance, gamma level, etc. measured? If yes, please add details
	Additional Information			Add any additional information about the test environment, if available
	Video Playback Software			Video player used to play the videos (e.g., VLC, MPV, Matlab, FFplay, etc.)
	Test Software			Which software did you use to play the videos and record the subjective opinion scores? E.g., Matlab, MSU VQMT, TUIL AVRateNg, Subjectify.us, Proprietary, Paper-based. Please add reference, as applicable
	Training			Was there any training session before the actual test?

Test Methodology	Playlist randomized			Was the playlist randomized for each session/participant? Please explain.
	Playback			How was the stimuli playback performed? E.g., fixed duration video followed by grey screen for a fixed duration, self-paced by the test participant.
	Upscaling (if used)			Upscaling filter used (Bicubic, Lanzcos-3, Lanzcos-5, Super Resolution)
	Test type			Video only, Audio-visual, audio only
	Number of Test Subjects			Number of participants that took part in the subjective test
	Test subjects per session			How many test subjects took part in a single session?
	Number of Test Sequences			Number of test sequences considered in subjective test
	Additional Information			Add any additional information about testing methodology, if available
Test Participants	Test subject recruitment			How were the test subjects recruited for the study? University students and staff, Crowdsourcing platforms, friends and family, etc.
	Pre-screening?			Was there any eye test or any othe pre-screening test performed on the subjective test participants? if yes, please mention which ones (visual acquity test such as Sellen or color-blindness test using Ishira charts, 3D vision check using stereo butterfly test, etc.)
	Experts or Non Experts			Please mention if the test subjects are experts (people working in video streaming) or non-experts or mix of both?
	Gender Distribution			What is the gender distribution of the test subjects?
	Age Distribution			What is the age distribution of the test participants?
	Additional Demographic Information			Is additional demographic information data such as viewing device preferences, number of hours videos streaming, gaming experience, etc. (as applicable) available? If yes, please provide details
	Additional Information			Add any additional information about test participants, if available
Subjective Scores Analysis	Post-Screening			Did you perform any outlier analysis? If yes, which methodology did you use? Eg., Correlation based, Z-score
	Subjective Scores Removal?			Were any subjective scores removed after outlier analysis?
	Subjective Score(s)			How are the subjective scores reported? MOS/DMOS only?
	Subjective Scores Transformation			Did you perform any mapping or transformation on the raw subjective scores? If yes, which one (e.g., generalized linear models (GLMs) for estimation of the population average QoE [Ref-Pezulli]. Please add details?
	Individual subjective scores			Are individual subjective scores available?
	Statistical Analysis?			Was there any statistical analysis performed such as calculation of CI, etc.
	Additional Information			Add any additional information about subjective scores post-processing and analysis, if available
Any other comments				Add any additional information about the subjective test which is not covered above and might be relevant to the reader
Section IV: Objective Quality Assessment		**Value**	**Additional Comments/Urls (as applicable)**	**Description of the field**
Quality Metrics	Quality Metrics Considered			Which quality metrics are you evaluating in this work? e.g., PSNR, SSIM, VMAF, LPIPS,
	Metric Type			What are the type of metrics that you are using? ML/DL/Traditional, Mixed
	Pooling			What type of pooling method (e.g., mean, minkowski summation, harmonic mean, etc.) is used to obtain the final video quality score (if applicable).
	Implementation(s) and Version			Add the list of urls to the open-source implementation links for the metrics used, if available (ffmpeg,github, commercial, proprietary, etc.). Please also add the version of the metric and/or implementation that you have used in this work
	Additional Information?			Add any additional information about the quality metrics that might be relevant to the user
Model Evaluation	Performance Measures Considered			Which measures are considered to evaluate the performance of the quality metrics (e.g., PLCC, SROCC, RMSE, Kendall, R2, etc.)
	Mapping performed			Is there any transformation/fitting (linear/3rd order polynoimial/logistic regression) performed before the computation of the performance scores?
	Statistical Significance Test(s)			Was any statistical significance test performed to compare the performance of the metrics compared/evaluated?
	Model Training			Was the model(s) trained/retrained? If yes, how?
	Model Complexity			If available, please add how the model complexity was evaluated
	Additional Information?			Add any additional information about model evaluation that might be relevant to the user
Any other comments				Please add any additional information about the objective evaluation which is not covered above and might be relevant to the reader
Section V: Ethical Considerations		**Value**	**Additional Comments/Urls (as applicable)**	**Description of the field**
Please use this section to describe any Ethical/GDPR related information	Ethical review			Were any ethical review processes conducted before the dataset creation?
	Intended Use			Please describe the intended use of this dataset?
	Consent Form (used for subjective tests)			Link to the sample consent form that was provided to the test subjects before their participation, if available
	Ethical/GDPR concerns?			Are there any ethical concerns? that might be relevant to the reader/user of this dataset
	Additional Comments?			Is there any additional ethical considerations/information that would be relevant to the users of this dataset?
Section VI: Supplementary Information		**Value**	**Additional Comments/Urls (as applicable)**	**Description of the field**
Answer the additional questions mentioned here, as applicable. If there is any other information that you would like to add, please add it at the end of these questions	Are preview/web version of source videos available?			Is there any preview/sample sequences available for someone to view/listen to understand the dataset? This is useful when the dataset is of huge size and the reader would like to make sure that it suits their requirements before downloading the same.
	Who created the dataset?			Company, University, Collaboration
	Who funded the creation of the dataset?			Project, company funding, self-funded, no funding
	Is there anything in the dataset that is confidential or might restrict its usage?			For example, is the dataset meant only for research use and non-commercial usage
	Who performed the subjective tests?			Was the subjective test performed by the authors/creators of the dataset? Or was it outsourced to an external 3rd-party? Please provide details
	Existing Works where the dataset is being used			Please add references to existing work(s) where either you or someone else have used this dataset (this is applicable to existing datasets that might have been available for sometime)
Please use this space to add	Note 1			Additional Comments/Information

Please use this space to add any additional information that you think might be helpful to the reader which was not covered in this datasheet questionnaire	Note 2		Additional Comments/Information
	Note 3		Additional Comments/Information
	Note 4		Additional Comments/Information
	Note 5		Additional Comments/Information
	Note 6		Additional Comments/Information

References

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Bibliography (provides references which are used in the template description)

Ref-ITUP913	ITU-T Rec. Methods for the subjective assessment of video quality, audio quality and audiovisual quality of Internet video and distribution quality television in any environment. https://www.itu.int/rec/T-REC-P.913-202106-I, June 2021
Ref-LPIPS	Zhang, R., Isola, P., Efros, A. A., Shechtman, E., and Wang, O., “LEARNED PERCEPTUAL IMAGE PATCH SIMILARITY (LPIPS).” https://torchmetrics.readthedocs.io/en/stable/image/learned_perceptual_image_patch_similarity.html (2023)
Ref-Pezulli	S. Pezzulli, M. G. Martini and N. Barman, "Estimation of Quality Scores From Subjective Tests-Beyond Subjects’ MOS," in IEEE Transactions on Multimedia, vol. 23, pp. 2505-2519, 2021, doi: 10.1109/TMM.2020.3013349.
Ref-SSIM	Wang, Z., Bovik, A. C., Sheikh, H. R., and Simoncelli, E. P., “Image Quality Assessment: From Error Visibility to Structural Similarity,” IEEE Transactions on Image Processing 13(4), 600–612 (2004)
Ref-VMAF	Netflix, “VMAF - Video Multi-Method Assessment Fusion,” https://github.com/Netflix/vmaf

Where not explicitly mentioned, this proposed template uses terminologies as defined in ITU-T P.10/G.100 and in other related ITU-T Rec (P.910, P.913, P.1401) and ITU-R BT.500

End of the Datasheet