



Video-MOS

# We are the Video Content Quality Monitoring Experts

*Not as an engineer approaches the content transmission quality, but as the content viewer quality of experience.*

Video-MOS Software as a Service (SaaS) is the viewer's Quality of Experience (QoE) measurement for audiovisual content from OTTs, Broadcasters, Video Platforms and content Producers

## Description

Video-MOS is an Artificial Intelligence AI tool (probe) to monitor on real time the QoE of any media content that eliminates human subjective dependence that today requires technicians to watch the channels mosaic to judge them subjectively.

Video-MOS provides full cloud scalable 24x7 QoE monitoring of an accurate estimate of the viewer experience in MOS (Mean Opinion Score) values standardized by the ITU body. Indicating the distortions that cause discomfort to the viewer and generating intelligent alarms that distinguish between artistic and technical distortions.

## Benefits



**Independent from human technicians.**  
Eliminates the technicians continuous inefficient and always subjective mosaic watching of all channels.



**Increases accuracy in incident detection.**  
Reduces false-incident alarms, as Video-MOS's Artificial Intelligence detects when a distortion is common in several content circumstances.



**Real-time alerts of alarms.**  
Video-MOS probes send user-defined segmented alarms.



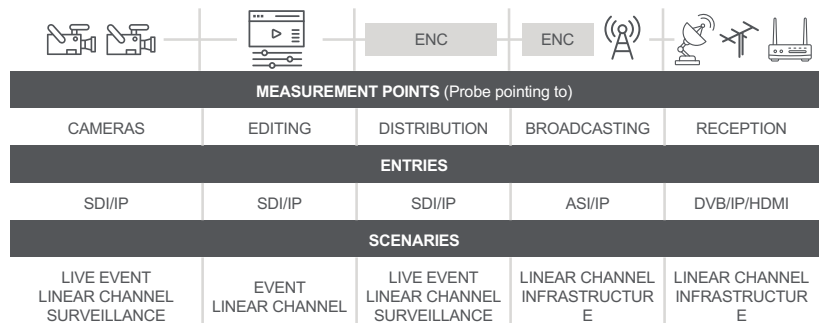
**QoE Reports.**  
Video-MOS generates default and custom MOS reports.



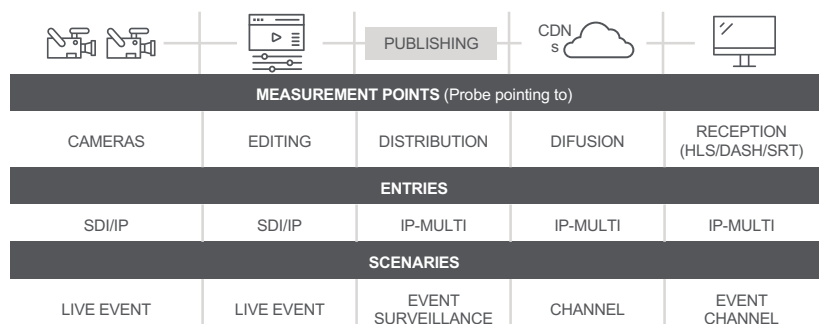
**You know your viewer's profile.**  
Video-MOS probes allow to adjust the probe MOS value and thresholds to the audience's expectations.

## Use Cases

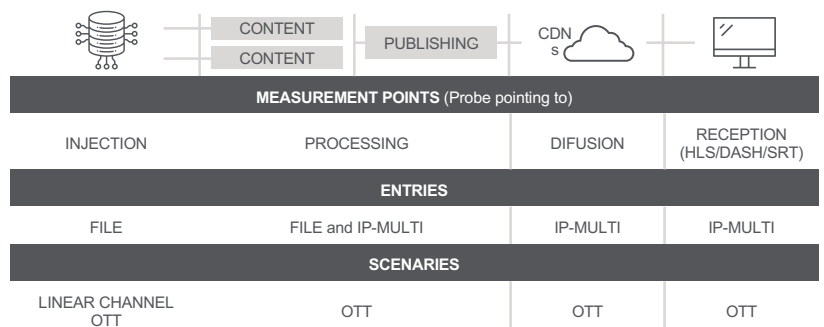
### Live Broadcasting Set-up

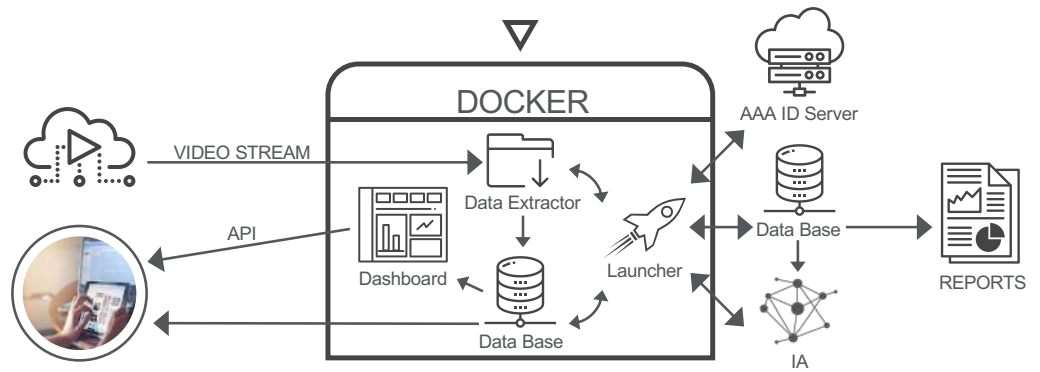
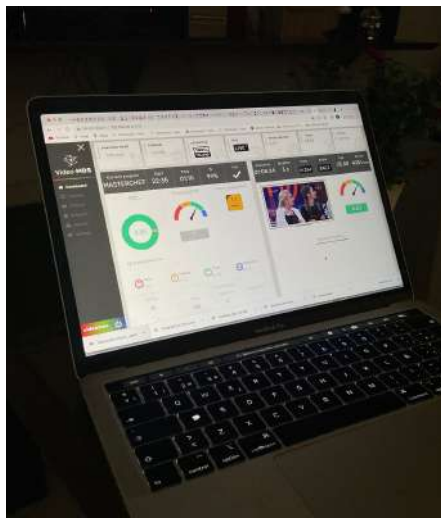


### Live Streaming Set-up



### Video on Demand Set-up





## Advantages

- ✔ **Diversity in the operating models.** Based on public cloud, private Cloud, or on premise, it ensures an easy adaptability to any video content need from OTTs and Broadcasters.
- ✔ **Sales model.** Software as a service (SaaS). Pay per use anual fee, and Bring Your Own License (BYOL) model.
- ✔ **Tecnology.** AI for QoE prediction on MOS metrics with no reference, and distortion detection cataloged by stage of the production / distribution chain. Audience impact prediction per program using AI for program type detection, common distortions and audience tolerance. Generation of highly accurate alerts and intelligent reports for monitoring, operation and optimization. Virtualized deployment (Docker) based on microservices. Patent registered.

## Features

<p><b>24x7 Perpetual Video quality (PVQ)</b></p>	<p><b>Virtualization.</b> Software virtualization allows for quick setup on client servers either on premise or any Cloud</p>	<p><b>MOS metrics.</b> MOS evaluated at each 3 seconds scene lapses</p>	<p><b>Viewer's experience.</b> Real time per channel</p>	<p><b>Distortion detection.</b> Available at any production stage by pointing the probe accordingly</p>
<p><b>Events information.</b> Real time reporting of any event issue regarding media contents characteristics</p>	<p><b>Warnings.</b> Alarms system integrated with email, SMS for awareness of users</p>	<p><b>Reports.</b> Shaped to be intended operational, tactical or strategic</p>	<p><b>Integration with broadcasting and streaming services.</b> Versatily to work live streaming, live broadcasting, and VoD files</p>	<p><b>Real time management Through web and API Rest.</b> It allows an intiutive management and integration dashboard with third party systems for automation</p>

## Specifications

<b>HARDWARE</b>	Based on Intel, AMD or ARM CPU Core. Minimun recommended CPU single core, 2.70GHz. RAM: 4GB
<b>SOFTWARE</b>	Linux, Mac or Windows. The operating system version must be capable of running a Docker container
<b>NVIDIA ACCELERATIION</b>	CUDA 12 is supported for NVIDIA GPU-accelerated
<b>SIGNAL ADQUISITION</b>	SDI SD/HD/4K, ASI, DVB-T, DVB-S/S2, AES/EBU
<b>VOD CONTENT ADQUISITION</b>	MPG, Adobe F4V, MP4, TS, MOV, MKV, WMV, AVI, 3GP, RAW, MXF, WebM
<b>STREAMS ADQUISITION</b>	MPTS and SPTS over UDP (unicast/multicast), RTP, HTTP, MMS, Adobe RTMP and HDS, SRT, DASH, CMAF
<b>VIDEO CODECS</b>	HEVC/H.265, AVC/H.264, MPG4, MPG2, VP8, PCM, Vorbis (ogg), Opus, WAV
<b>AUDIO CODECS</b>	MP3, AAC, AAC+, MPEG1 layer 2, WMA, PCM, Vorbis (ogg), Opus, WAV
<b>MANAGEMENT</b>	Web Interface, API JSON Resful, log, MogoDB interface