

Training Presentation

June 2025



www.videoq.com/vqmp.html

www.videoq.com

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1. General Info



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1.1 VQMP Concept



• VideoQ VQMP **M** is a Windows OS real time media player that can be used as a standalone QA/QC tool, or remotely controlled automatable viewer, or it can work in close cooperation with other tools, such as VideoQ VQV player-analyzer

http://www.videoq.com/vqmp.html

http://www.videoq.com/vqv.html

VQMP via built-in server can be controlled by short command messages containing:

- Full path to media file, URL or network protocol address
- Optional 2nd argument: timeline position within media file in s.ms format
- VQMP is using MPV O core engine and some of MPV keybindings (shortcuts)
 https://mpv.io
- VQMP supports a large recent files list, internal and external playlists, multiple internal/external audio/subtitles tracks and timeline bookmarks
- It also features Advanced AV Monitor vitally important for QA/QC functionality

1.2 VQMP Features



- Real time Windows OS media player combining minimalistic GUI (OSC = On-Screen Controller pop-up bar) with intuitive keyboard/mouse/overlay controls
- Powerful ffmpeg-based hardware-accelerated rendering and decoder that supports nearly all media formats, up to 8K UHD HDR/SDR
- Built-in HDR (PQ and HLG) to SDR conversion for easy HDR preview on SDR screen
- Multi-channel audio rendering engine, up to 7.1.4 surround sound
- Fast intuitive timeline navigation, including switchable messages, bookmarks, and GoTo Manager
- Smart speed/scale/zoom/pan controls with info overlays
- Smart file opening, including configurable use of last-used timeline position and track controls
- Playlist Manager with editing controls
- Recent Files Manager with editing controls
- Smart video, audio and subtitle tracks selection
- Advanced AV Monitor overlays, various modes of operation



1.3 CLI Parameters and Usage Info Helper

Click on Windows GUI VQMP icon or enter VQMP in Windows console without any CLI parameters to bring up Short Guide static image (Start Page) showing Main Shortcuts (see next slide). Launching VQMP executable with –h flag, brings up the following help message:

<u>Usage</u>:

TOC1

VQMP [h] [InputMedia] [TimePosition_s]

Use VQMP without optional components to launch VQMP start page (static image)

InputMedia option: specify full or relative Path to the media file, or URL, or network address

TimePosition_s option: specify timeline position in s.ms. Default: 0.0

VQMP.EXE must be co-sited with VQMP_.EXE and other files of VQMP package

Use vqmp -h command to display this help message in Windows console

---- Opening URL ----

If InFileName = URL, e.g. "https://z001-stream..." the VQMP OSD (On-screen Display) timeline 0s starts at the batch launch, which corresponds to a random position within the incoming live stream, thus [TimePosition_s] option *should not be used*.

---- Receiving AV stream over UDP or SRT protocol ----

VQMP can work with explicit network address: vqmp "udp://192.168.0.47:32768"

Alternatively, VQMP may receive AV data from "localhost" address: vqmp "udp://localhost:32768"

1.4 Start Page – Main Shortcuts Short Guide

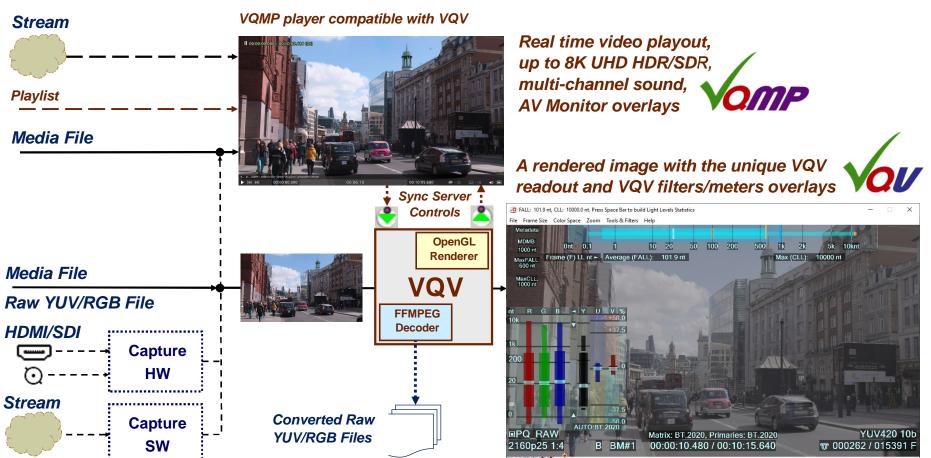




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1.5 VQMP and VQV – Workflow Diagram



UHD HDR10 sample video – courtesy of newsbyte.co.uk

1.6 VQV and VQMP Synchronization

VQV is a master control point, launching VQMP player (*and sync server running in the background*) as needed. Video files can be opened in VQV and/or in VQMP, so there are several cases:

- VQV and VQMP render the same file, possibly at different timeline positions.
- VQV and VQMP render two different files, even of two different types, e.g., video file by VQV, audio file by VQMP
 In any case, VQV can exchange with VQMP short command messages containing:
- Full path to media file

TOC1

• Timeline position in s.ms format

Click on VQV button or use Ctrl+ Up Arrow to send message from VQV to VQMP

Click on VQV button or use Ctrl+ Down Arrow to request and receive message from VQMP to VQV Idle VQV launches idle VQMP (server initialization only)



VQV sends to VQMP current file path and timeline position



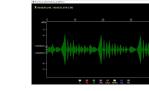
VQV requests and receives from VQMP file path and timeline position



Special case: VQV can not open audio file, but VQMP can

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2. Controls and Control Modules

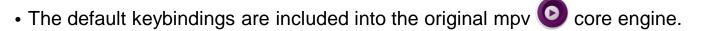
- 2.1 Keybindings Keyboard and Mouse Controls
- 2.2 Opening Media File via Drag-And-Drop
- 2.3 File Manager Controls 1

<u>TOC2</u> ← Click on TOC2 for the Section 2 TOC

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2.1 Keybindings – Keyboard and Mouse Controls



- See <u>https://mpv.io</u> for full list of original built-in mpv keybindings.
- Some built-in mpv keybindings are still in use by VideoQ VQMP, some of them disabled, and some others replaced by VQMP keybindings.
- Majority of VQMP shortcuts use lower-case keys

TOC2

- All upper-case keys mentioned below mean Shift+key.
- Dynamic keybindings are valid only while the related mode is active
- Press F1 to open the VQMP keybindings list document in WordPad
- See next slides for the detailed description of VQMP controls and shortcuts

2.2 Opening Media File via Drag-And-Drop

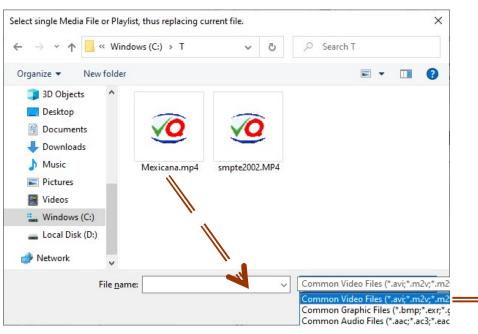




SDR sample video – courtesy of Kate McCartney & Kate McLennan, Australia



2.3 File Manager Controls 1



Ctrl+ o brings up standard File Open Dialog, the selected file or playlist will *replace* currently playing file or playlist.

New media file will be automatically included in **recent files list**. This operation will auto-reduce **internal playlist table** to just one item – new file.

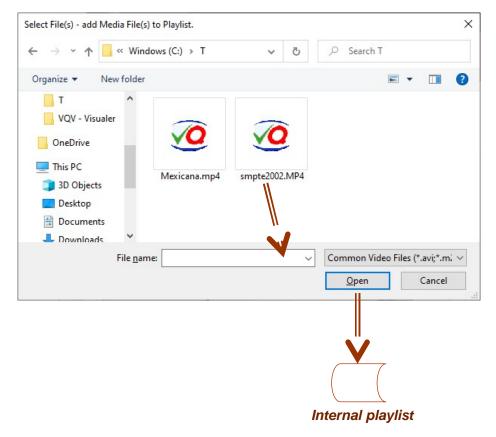
Note that the upper-case "Ctrl+ O" should not be used.



SDR sample video – courtesy of Kate McCartney & Kate McLennan, Australia



2.4 File Manager Controls 2



Ctrl+ a brings up Add File Dialog. The selected "*smpte2002.MP4*" file will be *appended* to the **internal playlist table**. Currently playing file will **continue to play**.

Note that the upper-case "Ctrl+ A" should not be used.



SDR sample video – courtesy of Kate McCartney & Kate McLennan, Australia

2.5 File Manager Controls 3





2.6 Classic Playout Controls



Use **Space** or **p** or **Mouse Middle Button** or **>** symbol of OSC (On-Screen Controller pop-up bar) to toggle pause/play. Use **q** or **Q** to quit and watch later: save timeline position and quit.



2.7 Recent Files Manager

Ctrl+ r toggles the Recent Files List overlay ON/OFF.

List size is unlimited, but the list is subdivided into pages, showing no more than 10 items at a time.

Use Enter, Mouse Left Button or digits 1 - 9, or 0 to select the file from the list. Use Up/Down Arrows or Mouse Wheel to scroll the list, one item at a time. Use PageUp/PageDown to scroll the list, one page (10 items) at a time. Del deletes item from the list, Esc switches list display OFF.



Note that Recent Files Manager and Playlist Manager are mutually exclusive.

Thus, if **Playlist Files Manager** was used, then launch of **Recent Files Manager** will auto-reduce playlist to just one item - currently playing file.

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2.8 Playlist Manager 1



Ctrl+ p brings up the Playlist overlay. List size is unlimited, but the displayed section is limited by VQMP window size.

See next two slides for item selection types, playlist navigation, modification and saving options.



Note that Recent Files Manager and Playlist Manager are mutually exclusive.

Thus, if **Playlist Files Manager** was used, then launch of **Recent Files Manager** will autoreduce playlist to just one item - currently playing file.

You can select multiple media files in the Explorer and drag-and-drop them. In such case new playlist will be created, thus replacing the current list.

In absence of user actions, playlist display will auto-hide after the preconfigured OSD delay, e.g. 4000ms.

2.9 Playlist Manager 2



If URL media titles are available, they are shown as playlist items, otherwise file names or URLs are displayed.

While the playlist is **displayed**, the following **selection** and **modification** controls are active:

Up/Down Arrows or Mouse Wheel:

- if no item selected: scroll the list -- move the cursor up/down with wrap-around at the list end
- for the selected item: move its position in the list with wrap-around at the list end

Left/Right Arrows or Mouse Right Button modify the selection type and list's bullet point shape:

- - default (any item, except the selected or playing item)
- hovered item (the item that can be played or selected)
- → the selected item
- item is currently playing, but not hovered, nor selected
- the hovered item is currently playing
- the selected file is currently playing

Enter or click Mouse Left Button: auto-select and play the item at the current cursor position

Del – deletes the **hovered** item from the list (selected or not selected).

2.10 Playlist Manager 3

Playlist mode ON

Playlist mode OFF



If playlist count > 1, then the following dynamic keybindings are active:

Enter plays next item in the playlist

- < or Ctrl+ , plays previous item in the playlist
- > or Ctrl+ . plays next item in the playlist

Ctrl+ P saves playlist in .m3u UTF-8 format.

Saved playlist file name is created automatically (no file name edit dialog);

saving location is fixed (pre-defined folder): ".\playlists "; saved file can be renamed, copied or moved for further use.

Ctrl+ Backspace clears the playlist, except the currently playing file, i.e. playlist is reduced to the currently playing item.

Ctrl+ Del deletes playlist table completely and forces VQMP engine to display start page:



High-lighted top row arrow symbols within the OSC Bar indicate the **playlist count > 1**, i.e. **Playlist Mode ON**.

VQMP - VideoQ VQV Viewer-Analyzer compatible version

00:00:00.000

VQMP - VideoQ VQV Viewer-Analyzer compatible version

00:00:00.000

2.11 Playlist Manager 4



Ctrl+ I (lower-case "L" key) auto-updates or creates the internal playlist table, which can be saved later.

VQMP will search the folder containing the currently playing file and append all files of all supported formats to the playlist.

Besides regular playlist mode there is a special "Playlist Scan Mode".

By default, it is ON.

In this mode each file is opened for just 12 seconds, AV Monitor and text messages show its video and audio parameters. This mode is handy for fast preview of large number of media files.

For example, to preview all files in the folder press Ctrl+ I (to create temporary volatile playlist), playout starts automatically. At any moment press Ctrl+ Backspace to delete the temporary playlist and start detailed analysis of currently playing file.







2.12 Timeline Navigation Controls 1

There are several ways to control the timeline position.

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General Timeline Navigation Controls:

To pause and seek the desired **relative** position use the following shortcuts:

 . (dot) or , (comma) or Mouse Wheel 	+/- 1 frame
• TAB	+/- 1s
• Ctrl+ TAB	+/- 10s
PageUp/PageDown	+/- 60s (1m)
Shift+ PageUp/PageDown	+/- 600s (10m)

Alternatively, use the **slider strip** within the **OSC Bar** (*Note that clicking/dragging this slider does not force pause*).

In pause mode dragging the slider bar provides for fast preview of the visual content with on-the-fly timecode display.

Note that the OSC Bar slider **precision** is limited to a few seconds; it is not enough for long duration file QA/QC purposes.

Press O to cycle OSC Bar visibility: "auto" (default), "always", "never".

In auto-visibility mode OSC appears when mouse is in the bottom 25% of the video image.

•		VQMP – VideoQ V	/QV Viewer-Analyzer con	npatible version			
	K		00:24:39.603			01:26:39	01:58:17.674



00:30:06

2.13 Timeline Navigation Controls 2

VQMP - VideoQ VQV Viewer-Analyzer compatible version

00:30:03.593

Loop Controls:

TOC2

I (lower-case "L" key) Set/clear A-B Loop points: 'Set A', 'Set B (AB Loop Mode active)', 'Clear A&B'

L Toggle File Loop playout mode: "inf" (default, except the playlist mode) or "no"

Note that in regular playlist mode selecting "inf" prevents jumping to next playlist file after previous file ends.

Chapter Navigation Controls:

Ctrl+ PageUp/PageDown Next / previous chapter

Click on double-arrow symbol within the OSC Bar to see chapter list overlay. If currently playing file **metadata** include **chapter list**, then these symbols are **activated** (highlighted) and chapter markers (small white triangles) added to the slider bar.

 \mathbf{K}

Bookmark Manager Controls:

User can store and recall up to 4 permanent bookmarks (store, see and recall file path and timeline position).

- Ctrl+ 1,2,3,4 Set (store) bookmark #1,#2,#3,#4
- Ctrl+Alt+ 1,2,3,4 Recall (load) bookmark #1,#2,#3,#4
- Ctrl+Alt+0 Peek (preview) all 4 bookmarks: #1,#2,#3,#4

Peek here means display the media title/filename/URL and seek position saved in the bookmark slot.

Ctrl+Shift+ Backspace Set one "revert-seek" mark

This is the single volatile bookmark, i.e. the timeline position for revert-seek, valid only for the currently playing file.

Shift+ Backspace Toggle between the "revert-seek" marked position and last used timeline position.

2.14 GoTo Manager Controls



II 00:00:50.680 / 00:06:55.123 (12%)

00:00:54.400 / 00:06:55.123 (13%)

GoTo: ► 00:00:50.680 > 2/3

GoTo: current time-pos > 4/4

- g Toggle editable 'GoTo' timecode string overlay ON/OFF
- b Switch 'GoTo' timecode string overlay ON and store current timeline position as GoTo record (volatile bookmark)

GoTo Manager dynamic keybindings:

Left/Right Arrows	Move to previous/next digit position (<i>underline italic</i>) 00:01:00.000
0 - 9	Enter current digit and move right to next digit
Backspace	Clear current digit (set 0), then go left to previous digit
Up/Down Arrows	Scroll through the GoTo history, numbers after ⋗ symbol show current record / record count
Esc	Cancel current timecode string editing and remove the overlay
Enter	Seek to the displayed absolute timeline position 돈

GoTo Manager history list size is practically unlimited, and it can be used for setting up very handy editable volatile **bookmarks**, valid across multiple media files, e.g. Recent Files, but they are valid only whilst the VQMP instance is running.

2.15 Window Controls



General Window Controls:

f or Mouse Doub Esc	le Click Toggle full screen mode ON/OFF Switch full screen mode OFF	
T	Toggle VQMP window staying on top of other windows, default value is "no"	
Ctrl+ N	Create new VQMP instance with empty playlist (start page)	
Ctrl+ R	Re-open (close and open the same file)	
Ctrl+ A	Cycle the rendered video aspect ratios : "16:9", "1.85", "2.0", "2.2", "2.35", "2.39", "4:3", "-1", "no" "-1" means the container/stream metadata aspect ratio, i.e. "auto mode", "mo" means that consist ratio defaulte to unassigned wides width (height, i.e. "actuare nivele mode",	
Ctrl+Alt+ a	"no" means that aspect ratio defaults to unscaled video width/height, i.e. "square pixels mode". Toggle the aspect ratio metadata source: container/stream	

Window Size Controls:

Except full screen mode, active video image always fits the VQMP window boundaries, thus window size controls indirectly change window scaling and zoom factor with reference to the original video frame size.

Shift+ Up/Down Arrows F9

zoom: wrt window 1:1, wrt video 1.85:1 window 1779x1001, AR 1.78, auto video 960x540, container metadata AR 1.78

4001, AR 1.78, auto 50, container metadata AR 1.78 50 but scaling and zoom valu

w, W, Ctrl+ w

Enlarge/shrink VQMP window (you can also use **Shift+ Mouse Wheel**) Brings up text message overlay showing window size, video size, and zoom values Max window size is limited by screen size, min window height = 480 pixels. *You can use mouse dragging for classic OS window size/position change without any restrictions, but scaling and zoom values will be hard to control and monitor.*

Reset all window size & zoom related parameters

2.16 Zoom and Pan Controls

The controls listed below affect only **active video image**, window size remains **unchanged**. Note that the "**smart limits**" of the Zoom and Pan controls depend on **video frame size** and **current window size**.

Alt+ Up/Down Arrows	Increase/decrease zoom factor: 1:1, 2:1, 4:1, 8:1, 16:1 (you can also use Alt+ Mouse Wheel)		
z, Z, Ctrl+ z	Reset video zoom & pan controls		
Ctrl+ Left/Right Arrows	Move (H pan) visible image within the window	pan %: x +50.0 y -29.3	
Ctrl+ Up/Down Arrows	Move (V pan) visible image within the window	zoom 4:1	
F9	Show window size, video size, and zoom values.		



II 00:00:50.680 / 00:06:55.123 (12%) zoom: wrt window 8:1, wrt video 10.67:1 window 1280x720, AR 1.78, auto video 960x540, container metadata AR 1.78



2.17 On-screen Display (OSD) Controls



t or Mouse Right Button Cycle osd-level 3, 2, 1, 0 (modify the content of the topmost message line)

osd-level **3** (default): osd-level **2**: osd-level **1**: current timecode / duration timecode current frame number / frame count, speed frame size, frame rate, time position in s.ms 00:06:04.440 / 00:06:55.123 (88%)
 (88%) frame 9111 / 10378 speed 1.00
 (88%) 960x540, 25,000 fps, s.ms; 364,440000

All 3 variants also include play/pause/seek/wait symbol and time position in %. For **audio files** and **AV Monitor overlays** the osd-level selection is fixed: **osd-level 3**.

Selection of **osd-level 0** means that not only the topmost line, but nearly all osd messages will be hidden: **timeline messages OFF** *Important note: VQMP scripts may override this control by forcing the pre-defined osd-level: 1, 2 or 3.*

o, P Short time display of progress bar (absolute time position) overlay

- Short time display of status info page (aka "stats") overlay
 Toggle permanent display of status info page (aka "stats")
 While in "stats" mode 1, 2, 3, 4 keys can be used to browse 4 info pages
- F6 Short time display of path + filename or URL
- F7 Short time display of media-title (e.g., of URL) or filename
- **F8** Short time display of video/audio/sub **tracks list** with language and short description tags – if available
- F9 Short time display of window/zoom parameters
- F10 Cycle the osd duration values: 2s, 4s (default), 8s



2.18 Other Controls 1



Sound Volume Controls:

m or Alt+ Mouse Middle Button

0 / 9 or Ctrl+ Mouse Wheel

Toggle **mute** ON/OFF Default value of Mute control is OFF (reset for each new file opened)

Increase/decrease **volume** Default volume value is 50% (reset for each new file opened)

Playout Speed Controls:

] or Ctrl+Alt+ f	Increase speed : .05, .15, .3, .5, 1, 2, 3, 4, 10, 20	Note that audio rendering is possible only
or Ctrl+Alt+ s	Decrease speed : 20, 10, 4, 3, 2, 1, .5, .3, .15, .05	for speed values from 0.3 to 4
{/}	Set play direction backward / forward	
Backspace	Reset speed controls to default values: speed = 1, play direction = forward	

Video Image Controls:

- 2 / 1 Increase/decrease contrast
- 4 / 3 Increase/decrease brightness
- 6 / 5 Increase/decrease gamma
- 8 / 7 Increase/decrease color saturation
- Alt+ s Select **BT.601** (SD) color matrix
- Alt+ h Select **BT.709** (HD) color matrix
- Alt+ u Select BT.2020 (UHD) color matrix

Alt+ n Select video data Narrow Range (YUV input data default)

Alt+ f Select video data Full Range (RGB input data default)

By default, color matrix, video data range and dynamic range mode (SDR, HDR-PQ, HDR-HLG) selection is automatic.

2.19 Other Controls 2

Video/Audio/Subtitles Track Selection Controls:

- a Cycle through audio tracks
- v Cycle through video tracks
- s, j Cycle through subtitles tracks
- J Cycle through **subtitles tracks** backwards

Subtitle Controls:

Ctrl+Alt+ Left/Right Arrow pause and go to previous/next **subtitle position** Note that going to previous/next pre-fetched subtitle position also changes video and audio timeline positions.

- S Cycle subtitles scale (size): 1. (default) 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, .5, .6, .7, .8, .9
- r / R Move subtitles up/down

Misc. Controls:

= or Shift+ Mouse Middle Button Reset all AV control values: (video, audio, subtitles, speed)

F1 Open the VQMP keybindings (help) document in WordPad

You can save JPG screenshots in the pre-defined ".\screenshots " directory:

- Ctrl+ s Save scaled video screenshot with subtitles and OSD
- Ctrl+ S Save unscaled video screenshot without subtitles and majority of OSD messages



3. Audio-Video Monitor



3.2 AV Monitor Mode 1

3.3 AV Monitor Mode 2

- 3.4 AV Monitor Mode 3
- 3.5 AV Monitor Mode 4
- 3.6 AV Monitor Controls 1
- 3.7 AV Monitor Controls 2
- 3.8 Audio Waveform Monitor Example
- 3.9 Audio VectorScope Usage Examples
- 3.10 Advanced Audio Monitor Usage Example 1
- 3.11 Advanced Audio Monitor Usage Example 2
- 3.12 Advanced Audio Monitor Usage Example 3



3.1 AV Monitor Modes



Mode 2

<u>Mode 1</u>



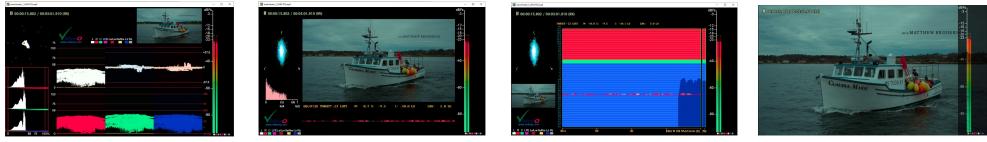


Mode 3



Mode 4

HDR-PQ Content

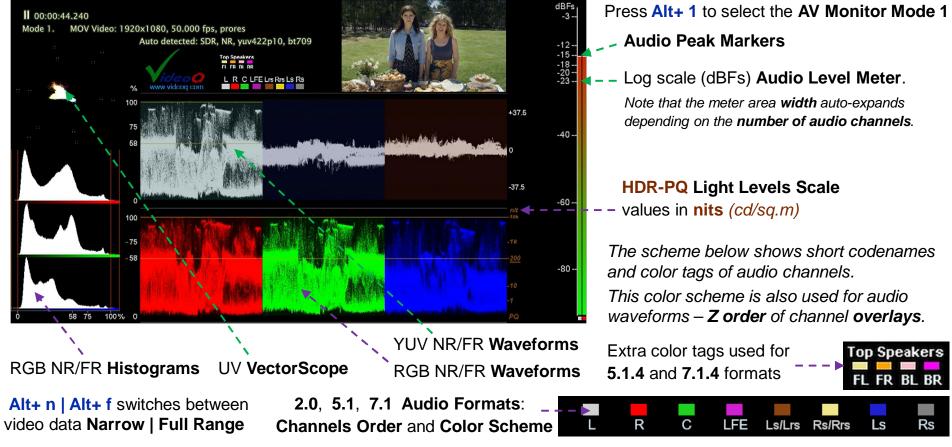


<u>Video tools</u>: **UV VectorScope, RGB Histograms, YUV Waveforms, RGB Waveforms** <u>Audio tools</u>: **Level Meter, VectorScope, Frequency Spectrum, EBU R128 Monitor** See next slides for more details about AV Monitor features and modes.

3.2 AV Monitor Mode 1



Press Alt+ 0 to switch AV Monitor ON, Esc to switch it OFF, or Ctrl+ Mouse Middle Button to toggle AV Monitor ON/OFF



3.3 AV Monitor Mode 2



Press Alt+ 0 to switch AV Monitor ON, Esc to switch it OFF, or Ctrl+ Mouse Middle Button to toggle AV Monitor ON/OFF

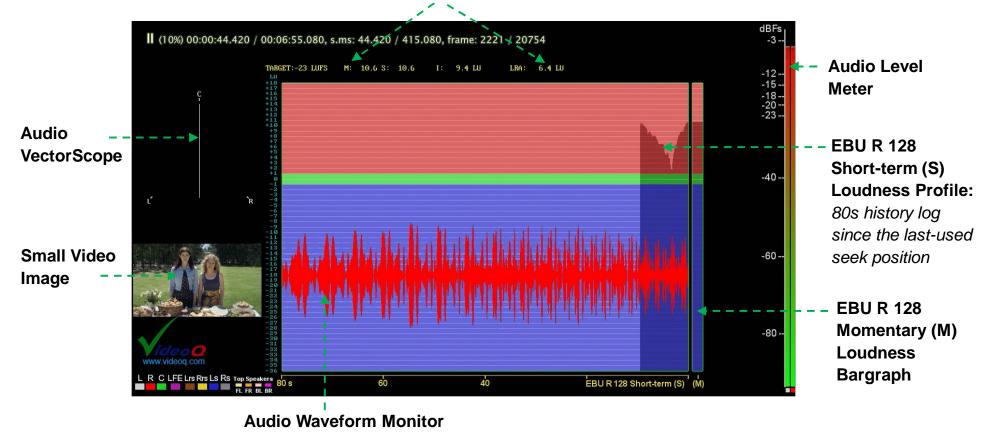


Audio Waveform Monitor

3.4 AV Monitor Mode 3



Press Alt+ 0 to switch AV Monitor ON, Esc to switch it OFF, or Ctrl+ Mouse Middle Button to toggle AV Monitor ON/OFF EBU R 128 Meter loudness values (M, S, I and LRA) Press Alt+ 3 to select the AV Monitor Mode 3



3.5 AV Monitor Mode 4



Press Alt+ 0 to switch AV Monitor ON, Esc to switch it OFF, or Ctrl+ Mouse Middle Button to toggle AV Monitor ON/OFF

For video files with internal or external audio streamsIn any AV Monitor Mode (including OFF):AV Monitor Mode 4 is the default mode for each new file opened.Press Alt+ 4 to select the AV Monitor Mode 4



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3.6 AV Monitor Controls 1

For video files with internal or external audio streams:

TOC3

Alt+ 0	Switch AV Monitor ON
Ctrl+ Mouse Middle Button	Toggle AV Monitor ON/OFF
Alt+ 1 2 3 4	Pre-select or select one of 4 Modes
Μ	Cycle thru AV Monitor Modes 1,2,3,4:
ESC (dynamic keybinding)	Switch AV Monitor OFF

For video only files without internal or external audio streams:

Note that in this case, you can only switch the AV Monitor **Mode 1** ON/OFF, using the keys shown above. Audio Levels Meter is not shown (hidden).

3.7 AV Monitor Controls 2



For audio files

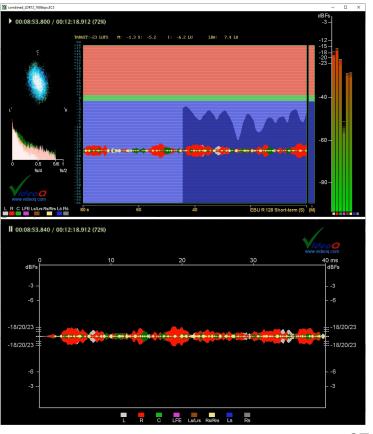
Note that for **audio files** AV Monitor is **always enabled**, you can only **switch** between **2 special modes**.

M or Ctrl+ Mouse Middle Button toggles between 2 modes:

• AV Monitor Mode 3a

This mode is auto-ON for each new audio file opened.

Large Audio Waveform Monitor
 (special mode available only for audio files)



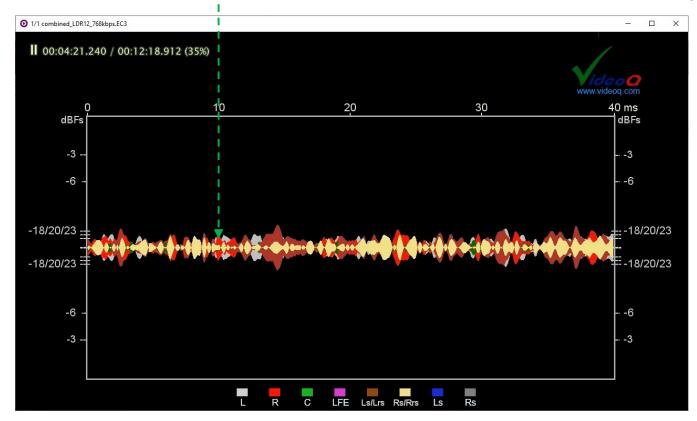
3.8 Audio Waveform Monitor Example

TOC3



If input is an **audio file**, press **M** to toggle between Advanced Audio Monitor and Audio Waveform Monitor modes.

In this example **Waveform Monitor** shows that all 5.1 audio channel colors **are different**. Looks like good professional job.

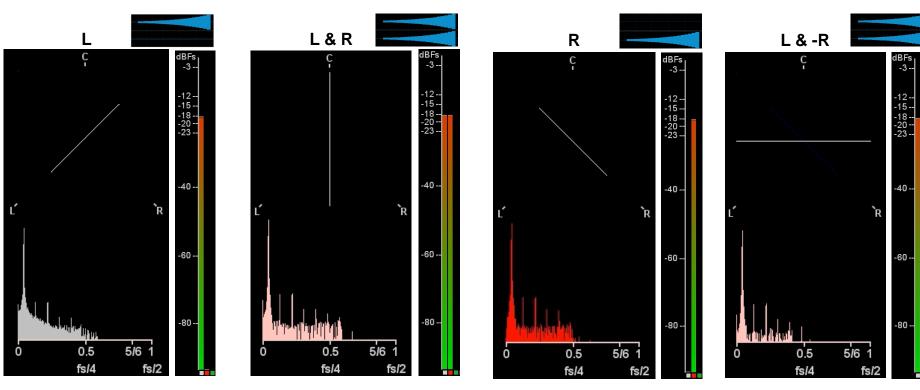


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3.9 Audio VectorScope Usage Examples

VideoQ Audio Test #2: 1kHz tone, various levels and phases combinations: L, L & R (same phase), R, L & -R (anti-phase)

VectorScope Lissajous figures clearly show relative (L vs R) phases. **Level Meter** and **Spectrum** color provides visual hints of active channels.



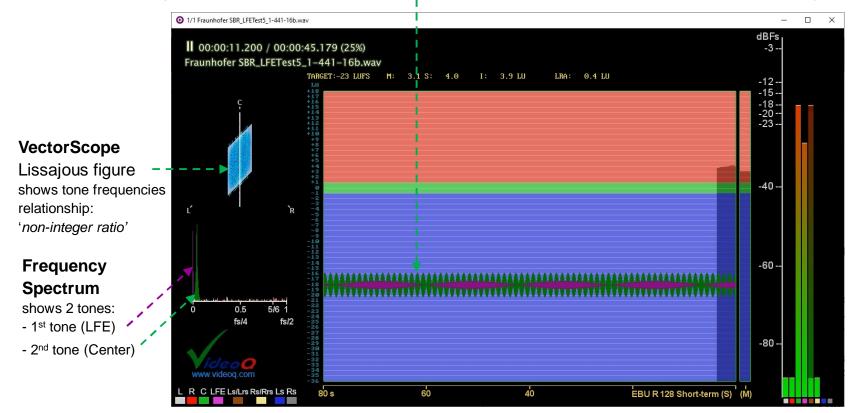
Jomp

3.10 Advanced Audio Monitor Usage Example 1

Audio codec test: 5.1 channels, 2 tone frequencies, 2 levels

TOC3

Frequency Spectrum and Waveform Monitor both show that the first tone has a lower frequency and level.



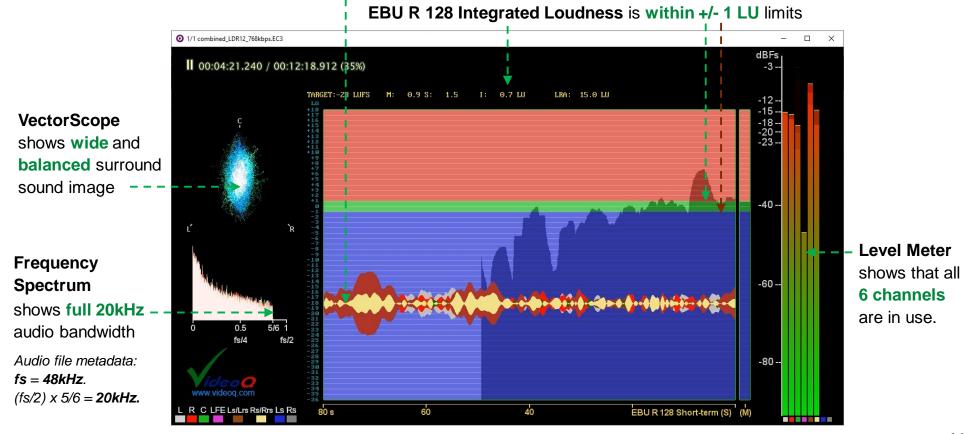


3.11 Advanced Audio Monitor Usage Example 2

Professional audio track: 5.1 ATMOS

TOC3

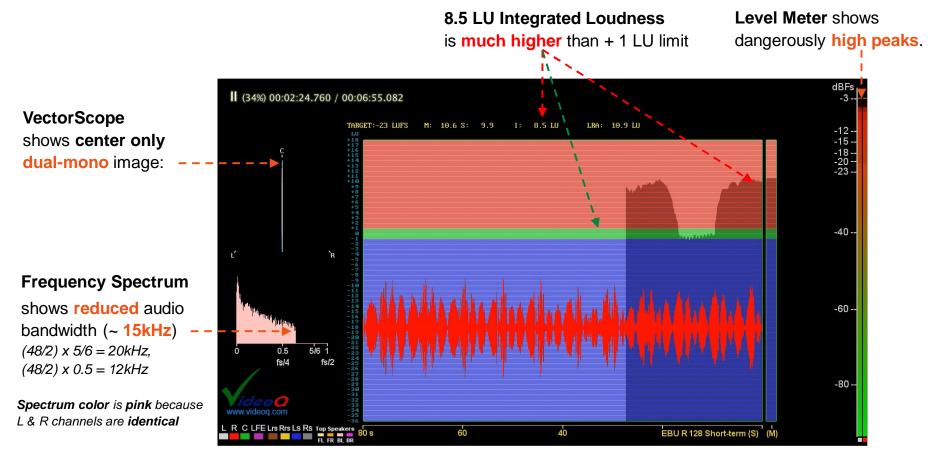
Waveform Monitor shows that all 6 channels are in use (6 different colors)



3.12 Advanced Audio Monitor Usage Example 3



Relatively low quality audio track: dual-mono (not real stereo sound), reduced bandwidth, levels are far too high.



4. About VideoQ

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Company History

- Founded in 2005
- Formed by an Engineering Awards winning team sharing between them decades of global video technology.
- VideoQ is a renown player in calibration and benchmarking of Video Processors, Transcoders and Displays, providing tools and technologies instantly revealing artifacts, problems and deficiencies, thus raising the bar in productivity and video quality experience.
- VideoQ products and services cover all aspects of video processing and quality assurance - from visual picture quality estimation and quality control to fully automated processing, utilizing advanced VideoQ algorithms and robotic video quality analyzers, including latest UHD and HDR developments.

Operations

- Headquarters in CA, USA
- Software developers in Silicon Valley and worldwide
- Distributors and partners in several countries
- Sales & support offices in USA, UK

