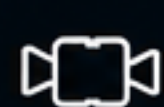


ViDeus

MULTIVIEWER

Intelligent monitoring for Broadcast, IP and OTT

View, monitor and operate your entire
video infrastructure from one
platform, locally or fully remotely.



SDI



IP / STREAMING



ST 2110



OTT / DRM



QoE / QoS



SCTE



FINGERMATCH



PENALTY BOX

3Way



MONITORING • QoE / QoS • FINGERMATCH • SCTE • LOUDNESS • AUTOMATION

FROM SDI TO THE VIEWER'S SCREEN

ONE PLATFORM. EVERY PROTOCOL.

ViDeus Multiviewer centralizes broadcast, baseband, IP, streaming and OTT signals in one monitoring environment. Fully web-based operation and administration, local or remote.



Up to 40 Full HD signals per server

Depending on hardware and configuration.



OTT WITH DRM

Monitor protected platforms and content using browser and DRM agent.



100% WEB

Access from any browser anywhere.



WEB-BASED OPERATION

Configuration, viewing, alarms, metrics and remote administration without being physically in monitoring center.

BASEBAND			IP / STREAMING			BROADCAST		
SDI	HD-SDI	3G-SDI	SRT	NDI	HLS	ASI	DVB-S2	DVB-C
HDMI	NTSC	PAL	RTMP	RTSP	MPEG-DASH	ISDBT	ATSC	DVB-T2
RF			TS over IP			AM-FM	SMPTE 2110	SMPTE 2022-6
CODECS AND CONTAINERS					OTT PLATFORMS			
H.264	TS	DV			DISNEY+	DTV GO	VIMEO	
HEVC	MP4	XAVC			HBO MAX	YOUTUBE	WEB PAGES	
XDCAM	MOV				FLOW	FACEBOOK		
AVI	MXF							



TRADITIONAL SDI

Total compatibility with existing equipment.



IP / STREAMING

Contribution and distribution over IP and public networks.



ST 2110

Native monitoring of Broadcast IP infrastructures.



OTT / DRM

Complete visibility of platforms and content with DRM protection.



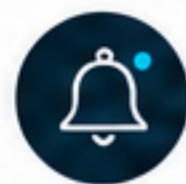
VIEWER'S SCREEN

From source to final experience.

MORE THAN VIEWING SIGNALS

IN-DEPTH REAL-TIME MONITORING

ViDeus Multiviewer continuously analyzes the technical status of each service, detecting anomalies and providing key metrics to ensure transmission and distribution quality.



QoE / QoS AND ALARMS

Automatic detection of Video Freeze, Video Black, Audio Low, signal loss, transport errors, bitrate and other anomalies.



EBU R128 LOUDNESS

Measurement of Integrated, Short-Term, Momentary Loudness, LRA and True Peak, with graphs and history.



TRANSPORT STREAM & TR 101 290

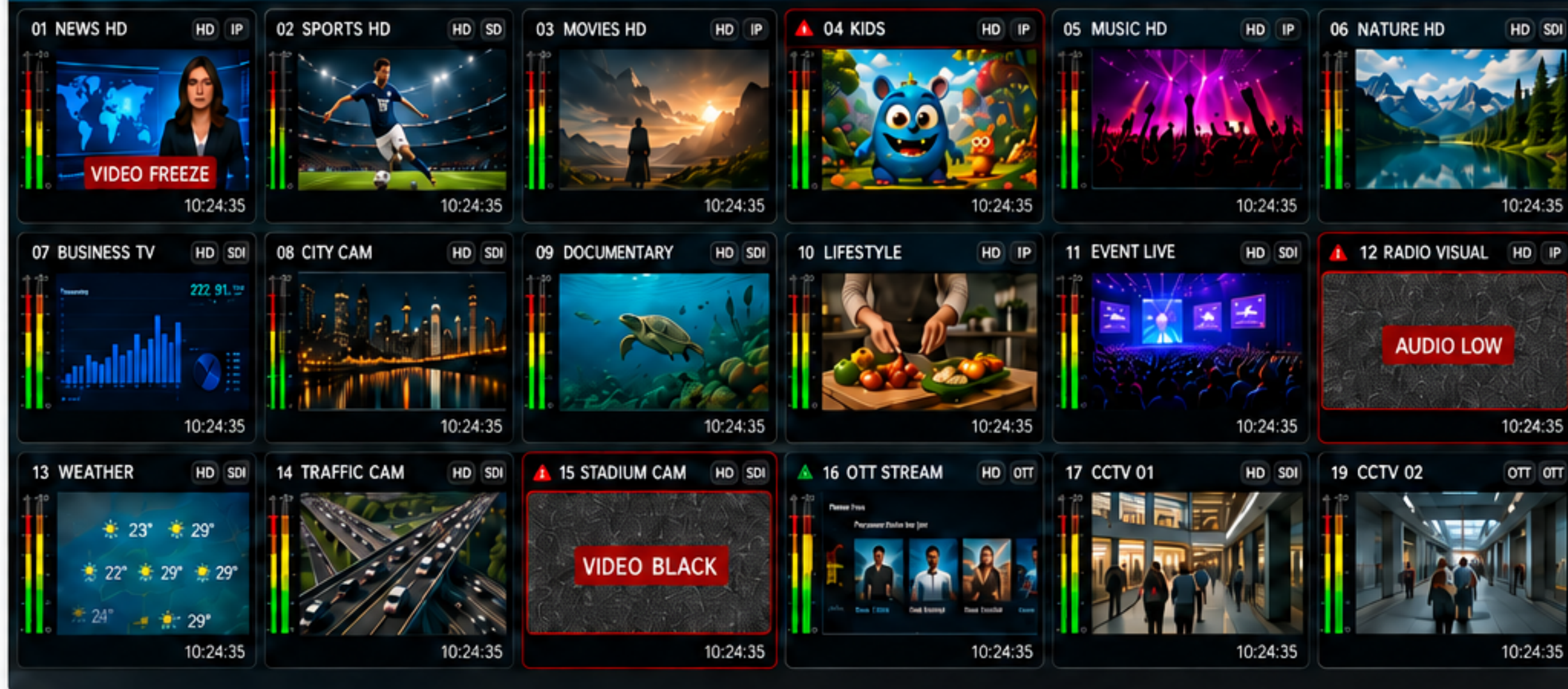
Inspect MPEG-TS services, PIDs, codecs, bitrate, tables and ETSI TR 101 290 parameters.



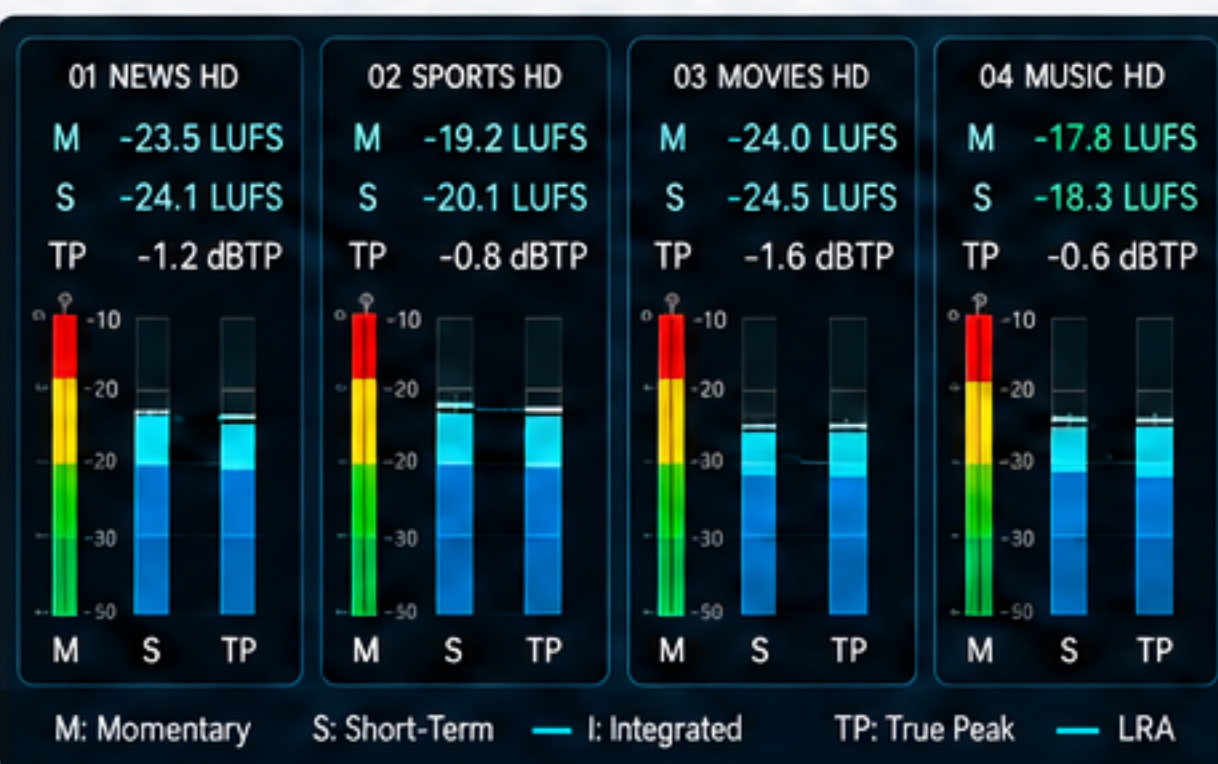
HISTORY AND METRICS

Consult event logs and parameter trends for troubleshooting and further analysis.

REAL-TIME ALARMS



EBU R128 LOUDNESS ACROSS MULTIPLE SIGNALS



METRICS AND HISTORY



TRANSPORT STREAM & TR 101 290

Services	PIDs	TS Analysis	TR 101 290
Parameter	Status	Value	
Transport continuity	✓	OK (0 errors)	
PID continuity	✓	OK (0 jumps)	
PCR accuracy	✓	± 24 ns	
PCR repetition interval	✓	20 ms	
PAT repetition interval	✓	100 ms	
PMT repetition interval	✓	100 ms	
CAT / NIT	✓	Present	
Error rate (BER)	✓	0.00E+00	
Average bitrate	✓	3.09 Mb/s	



Broadcast Intelligence

Detect what a traditional multiviewer misses.

Advanced capabilities to compare, analyze and prioritize problems in real time, accelerating fault detection and decisions.



FINGERMATCH

Automatic audio/video comparison between signals.

Detects content differences, delays, cuts, desynchronizations or unauthorized changes between distribution points or platforms.



Ideal for:

- ✓ Verifying content integrity across the distribution chain.
- ✓ Detecting delays between signals.
- ✓ Identifying points where problems occur.
- ✓ Comparing linear distributions and OTT.



SCTE-35 / SCTE-104

Monitoring and visualization of signaling events.

Displays in real time each insertion event associated with information in: In Point, Out Point, Event ID, duration, PTS and more.

SCTE-35 / SCTE-104 Events

Time	Event Type	Event ID	Status	In Point	Out Point	Duration	Pre-Roll	PTS	Time Signal
10:24:35	Splice Insert	0x03456789	Executed	10:24:35:12	10:26:05:00	00:01:29:13	00:00:30:00	0x1A283C4D	10:24:35
10:15:12	Splice Insert	0x03456789	Executed	10:15:12:05	10:16:42:00	00:01:29:20	00:00:30:00	0x1A2A3C4D	10:15:12
10:05:48	Time Signal	0x00000000	Executed	-	-	-	-	0x1A293C4D	10:05:48
09:55:33	Splice Insert	0x03456787	Failed	09:55:33:10	-	-	00:00:30:00	0x1A283C4D	09:55:33
09:45:20	Splice Insert	0x03456786	Executed	09:45:20:00	09:46:49:18	00:01:29:18	00:00:30:00	0x1A273C4D	09:45:20

Total insertion control

- ✓ Verify that events arrive and are executed correctly.
- ✓ Confirm durations, pre-roll and return times.
- ✓ Complete event history with search and filtering.



PENALTY BOX

Focus on what matters.

Faulty signals are automatically moved to a priority view for faster operation, more accurate response and greater efficiency.



Save time, respond faster

- ✓ Anomalies are detected and automatically displayed.
- ✓ Less searching, more action.
- ✓ Ideal for NOCs and 24/7 operations teams.



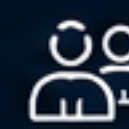
VISIBILITY. INTELLIGENCE. CONTROL.
Everything for efficient broadcast operations.



EARLY
DETECTION



FAST
DIAGNOSIS



LESS VIEWER
IMPACT



BETTER QUALITY
OF SERVICE

ViDeus
MULTIVIEWER

ViDeus

MULTIVIEWER

VISIBILITY.
INTELLIGENCE.
CONTROL.

Everything you need
for efficient broadcast
operation.



REAL-TIME MONITORING

Video, audio, data and alarms
on a single screen.



ADVANCED METRICS

QoE, QoS, loudness,
bitrate and more.



CONFIGURABLE ALARMS

Detect and anticipate
problems.



TOTAL INTEGRATION

SDI, IP, OTT, ST 2110,
SCTE, NMS and more.



QUALITY AND CONTINUITY

Ensure the best experience
across your entire distribution
network.

Total control of your content.

ADVANCED MONITORING FOR A WORLD OF SIGNALS.

ViDeus Multiviewer lets you view, analyze and operate
every signal in real time, from a single, reliable platform,
with the performance your operation requires.



EARLY
DETECTION



INTELLIGENT
ANALYSIS



SIMPLE
OPERATION



HIGHER
AVAILABILITY



MÚLTIPLE SOURCES, ONE MULTIVIEWER

Integrate signals from different technologies
and platforms in a single operation.



SDI



IP / STREAMING



OTT / DRM



DVB



SMPTE ST 2110



SCTE

And much more.

MÉTRICS THAT MAKE THE DIFFERENCE

Analyze in detail the quality of each signal
to ensure the best experience.



QoE / QoS



EBU R128
Loudness



TR 101 290
MPEG-TS



Historical Data



Bitrate and Errors



SCTE Events

FULLY WEB-BASED OPERATION

Access from anywhere, on any device,
with an intuitive and secure interface.



- ✓ No additional software
- ✓ Customizable layouts
- ✓ Users and roles
- ✓ Integration with NMS
- ✓ APIs and webhooks
- ✓ Ready for critical environments

MORE SIGNALS. MORE CONTROL. MORE POSSIBILITIES.



REAL-TIME
MONITORING



ADVANCED
METRICS



TOTAL
INTEGRATION



QUALITY
AND CONTINUITY

3Way

6 One platform. Different operations.



TV CHANNELS

Monitor your own signal in studios, transmitter sites, headends, remote centers and distribution points.



CABLE OPERATORS, TELCOS AND OTT

Centralized monitoring of multiple services from reception to the final subscriber experience.



BROADCASTERS AND OPERATIONS CENTERS

Monitor large numbers of SDI/IP signals, ST 2110 infrastructure and distribution.



REGULATORY AND MONITORING BODIES

Simultaneously monitor multiple broadcasters, services and platforms.

Also for:

NOCs • Production companies • Mobile units • Contribution/distribution providers
CDNs • Governments • Large audiovisual infrastructures

ViDeus
Multiviewer

One platform to view, analyze and operate your entire video ecosystem.



REQUEST A DEMO
www.3way.com.ar

BROADCAST • SDI • IP • SMPTE ST 2110 • STREAMING • OTT/DRM

3Way