

## OBSERVER Enterprise Technical Specifications

Feature	1 CH	2CH	4CH	8CH
Model	1 CH	2CH	4CH	8CH
Video Inputs <sup>1</sup>	1	2	4	8
Chassis Type				
Analog	1U/3U	1U/3U	1U/3U	3U
SDI 1U/3U	1U/3U	3U	3U	-
HD 1U/3U	1U/3U	3U	3U	-
Redundant Power	✓	✓	✓	✓
IPMI Watchdog	✓	✓	✓	✓
Redundant Storage	RAID-5	RAID-5/6 <sup>2</sup>	RAID-5/6	RAID-5/6
Standard Storage <sup>3</sup> (Days)				
Analog	90	90	90	90
SDI 90	90	90	90	-
HD 90	90	90	90	-
Maximum Internal Storage <sup>4</sup>	2 Years	2 Years	1 Year	180 Days
Search Engine Module	Standard	Standard	Standard	Standard
Quality of Experience Module	Option	Option	Option	Option
Content Verification Module	Option	Option	Option	Option
Content Export Module	Option	Option	Option	Option
Content Matching Module	Option	Option	Option	Option
Scheduled Recording Module	Option	Option	Option	Option
Ratings Import Module	Option	Option	Option	Option
Central Server	Option	Option	Option	Option
Simultaneous Users	Unlimited	Unlimited	Unlimited	Unlimited
Network Ports	Dual Gig-E	Dual Gig-E	Dual Gig-E	Dual Gig-E

<sup>1</sup> Analog inputs include 2-channel (stereo) audio. SDI/HD-SDI inputs support up to 8 channels of embedded audio.

<sup>2</sup> RAID-6 supported for 8 drive configurations

<sup>3</sup> Specified storage assumes VHS-like quality settings (512 kb/s SD, 1.5 Mb/s HD)

<sup>4</sup> External storage is available to further increase capacity

Note: • **Audio expansion** available for certain configurations, please contact your local sales rep for details  
• **PC Client Requirements:** Win XP/Vista, Win 7, IE 7 or greater, Windows Media Player 11 or greater

## Chassis Physical Specifications

	Central Server (1U)	Enterprise (1U)	Enterprise (3U)
Dimensions			
Height	1.7" (43mm)	1.7" (43mm)	5.2" (132mm)
Width	17.2" (437mm)	17.2" (437mm)	17.7" (450mm)
Depth	27" (686mm)	27" (686mm)	25.5" (648mm)
Chassis Weight	55 lbs (25kg)	55 lbs (25kg)	85 lbs (38.5kg)
Power Supplies	2	2	3
Power Requirements	700W	700W	760W
AC Voltage	100-240VAC 50-60Hz 10A /4A	100-240VAC 50-60Hz 10A /4A	100-240VAC 50-60Hz 14A /7A

**Volicon** Observer<sup>TM</sup>  
Enterprise

## Multichannel Broadcast Monitoring and Logging

Observer is the award-winning, broadcast monitoring solution for off-air asset monitoring. Deployed in thousands of channels worldwide, Observer incorporates real-time, multi-channel monitoring, streaming, search, retrieval, publishing and archiving. Observer has become the broadcast industry solution of choice for monitoring, logging, and repurposing of off-air content.

The benefits of Observer are far-reaching and positively impact all facets of your broadcast enterprise. News management, executive management, sales, traffic, engineering and other functional areas can all utilize Observer to reduce cost, improve performance, decrease risk, increase competitiveness and generate revenue. Possibly most important, with Observer, your organization will be fully compliant with FCC and other regional program archiving regulations.

## Key Benefits:

- Simple out-of-box experience for installation and maintenance
- User and group management based on Active Directory & LDAP provides granularity right down to users and features
- No client software installation required which eliminates any issues with PC client version sync
- Remote access to centralized server anywhere, any time
- Runs on current corporate network infrastructure
- Efficient encoding and streaming engine makes best use of network bandwidth
- Standardized, carrier-class enterprise hardware offers RAID 5/6 redundancy

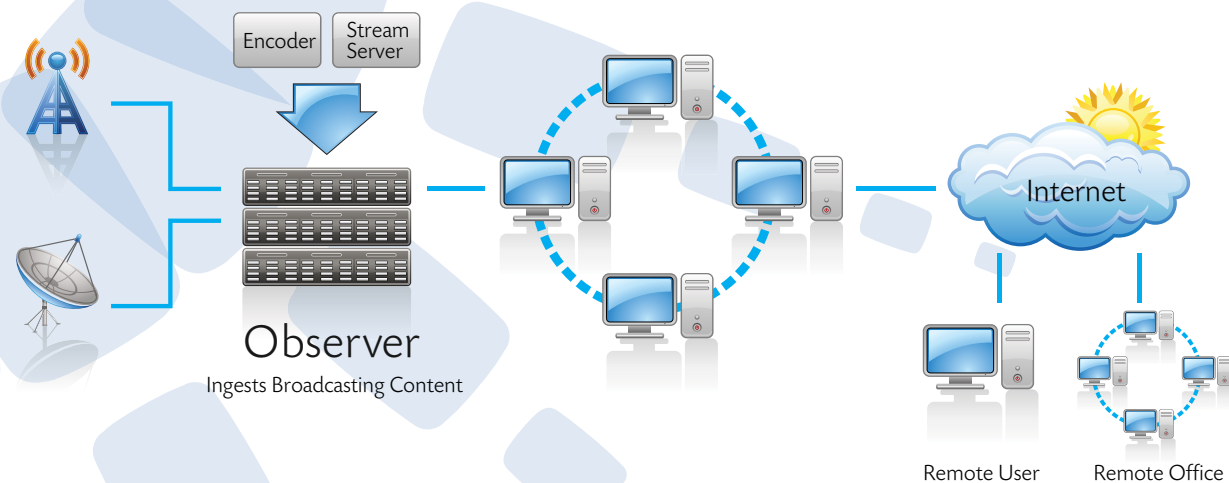


## Key Features:

- View and log multiple video/audio broadcasts
- Monitor transmissions of multiple stations
- Modular system scalable to large number of channels
- Compare your programming to the competition
- Search Closed Caption text in realtime for specific subjects and provide email alerts
- Perform quality assurance on captured media assets
- Analyze and correlate viewer approval ratings information with programming
- Manage your assets with powerful organization, search and retrieval functions
- Import EPG data, as-run log, and custom metadata for workflow integration
- Export and distribute video clips for review and approval, or repurpose assets for outside use
- Respond instantly to viewers, regulatory agencies, and advertisers
- Monitor SD and HD Broadcasts



## Observer System Architecture



### monitor

Viewing is simple: pick channels to watch from a friendly list of names, have the option of both windowed and full/split-screen playback modes. With virtually zero wait from click to actual playback, go from half-speed to 10x in either direction – instantly. Responsive, DVD-like controls allow users to feel at home and focus on the task at hand instead of searching for the video they want. Change dates and times for different channels, while still retaining the ability to play them together. Configurable alarms monitor video quality and provide early detection of audio and video issues, allowing quick resolution while minimizing downtime.

### manage

Observer puts the footage you need at your fingertips, converting search time into productive time. Side-by-side comparison of assets or competitor offerings is facilitated by one unified interface. Research groups enjoy viewer approval ratings displayed in synchronization with video, from the same screen, providing insights into your competition and market. Active monitoring of Closed Captions provides notifications of specific subject mentions by email, including transcript and thumbnail "storyboards". Users may also query the Closed Caption database like a search engine, converting video assets into minable, textual databases. Searchable program guides allow you to organize and find video based on standard criteria (footage name, channel, and time). An extensible, XML-based data import system integrates standard EPG (Electronic Program Guide), as-run log, and custom company data to augment the standard program guide, integrating Observer into your workflow while eliminating manual data entry.

### monetize

Observer facilitates video distribution throughout your organization without utilizing precious broadcast infrastructure or saturating network resources. Shareable clip lists allow users to collaborate and view specific video without using additional storage. Assets are easily exported and repurposed: both footage and textual data can be saved to files for outside use. Provide clips for review, analysis, and approval. The demands of internal and external clients such as advertisers, viewers, and government agencies are easily met: verify broadcast of advertising spots, instantly respond to FCC compliance requests, and export to other media systems for post-production, asset-management, transcoding, and content delivery networks. Observer provides convenient pathways for dissemination of captured assets to other distribution channels and for revenue generation. Observer is the award-winning, broadcast monitoring solution for off-air asset monitoring. Deployed in thousands of channels worldwide, Observer incorporates real-time, multi-channel monitoring, streaming, search, retrieval, publishing and archiving.

## Observer Modules

### Content Matching



Identify when specific content is aired. Track aired instances of specific commercials and programs on competitor's broadcasts, and verify that required content was properly aired. Positive matches generate a video clip entry in the fingerprint log, and can issue alerts to a set list of users.

### Scheduled Recording



Enhance the monitoring capabilities of Observer. By controlling a tunable device such as a Set Top Box, Observer can be set to monitor only relevant media sources according to a fully customizable schedule.

### Ratings Import



Understand the popularity of aired content. By importing viewer approval ratings data into Observer, users can easily view multiple channels of content with a synchronized ratings graph. Navigate to points of interest by clicking on one of several supported chart types, including demographic breakdowns, and gain a better understanding of the content's effectiveness.

### Content Verification



Integrate with an existing automation system. Users can look up logged content according to program name, media ID, or other data from the as-run log. Automatic importation of common as-run logs or EPG data formats simplifies finding content for ad verification and compliance purposes.

### Quality of Experience



Analyze logged content continuously for a variety of signal faults. Includes detection of video loss, black screen, static screen, audio loss, and missing captions. With flexible, individually-settable alert thresholds, notifications are delivered via e-mail or SNMP traps.

### Content Export



Back up logged content to network disk or recordable data DVD and gain a simple, effective, and reliable archiving solution. Export content in batch for use outside Observer, including ad verification, corporate website, and legal compliance.

### Producer Module

Repurpose content from Observer using a fully integrated automated transcoding engine to deliver your assets to over 40+ formats, codecs, and containers.

