

SOFIA 568

HD Radio® SiteStreamer+™



Inovonics' SiteStreamers™ are Web-enabled monitor radios that let you listen to your station from anywhere in the world. In addition to remote listening, SiteStreamers also deliver important RF and audio signal measurements and dispatch email or text-message alarms for out-of-limits conditions and other reception errors.

The elite SiteStreamer+ ('Plus') series offers advanced features for the most critical monitoring situations.

The SOFIA 568 provides analog, AES3-digital and AoIP-streaming audio outputs. It collects histograms of signal parameters and displays HD Radio album artwork, station logos and similar visuals via the Web interface. Multiple stations can be sequentially monitored using the programmable StationRotation™ feature. The SOFIA 568 includes a built-in BandScanner™, a real-time clock and full SNMP functionality.

BASIC SITESSTREAMER[™] FEATURES

- Install the SiteStreamer within the reception contour of your station and monitor off-air analog FM or HD Radio signals (HD1-HD8) via the Web from anywhere in the world.
- The built-in BandScanner displays a spectrum plot of the entire FM band (or a user-selected portion) and identifies HD Radio transmissions.
- Gives local and remote readout of all pertinent FM/RDS and HD/PAD data.
- Easy front-panel setup uses jog-wheel menu navigation and the front-panel readout. The corresponding Web interface offers a detailed presentation and additional options.
- Stays on-channel and on-mode through signal and power loss; does not auto-blend between FM and HD like a consumer radio.
- Front-panel alarms and rear-panel 'tallies' for Audio Loss, Low Signal, RDS Errors and HD Reception Loss. 'Split Mode' audio monitoring aids transmission diversity delay setup.
- Separate Admin and User passwords limit remote access to setup menus.
- When issued, free firmware updates are easily installed in the field.

SOFIA 568 SITESSTREAMER+[™] ADDED FEATURES



SOFIA 568 SITESTREAMER+™ WEB INTERFACE FEATURES



Analog, AES3-digital and AoIP-streaming audio outputs are simultaneously available with independently-adjustable audio levels. The Web/IP-streaming utility has selectable format (MP3/OGG), bitrate and sampling rate, plus dial-in latency and 'maximum listeners' setting to optimize operation over poor Internet paths.

View FM/RDS and HD/PAD data in real time.

A high-resolution audio level display is coupled with a rolling histogram of program dynamics for a representation of modulation density (loudness) over time. FM and HD signal metrics are also captured over the same time period, and the graphic display can show the past minute, 10 minutes, 1 hour, 6 hours or 24 hours.

The SOFIA 568 displays HD Radio graphics and related text data for each HD channel. Select the 'simple' mode to see what the listener sees, or the 'advanced' mode with a history of previous images.

PLUS:

- The SOFIA 568 Internet-listening stream supports up to 10 listeners at once.
- Enhanced alarm logging includes the duration of each alarm, and there is virtually no limit to the number of alarms that can be logged.
- Download a complete log randomly, or automatically daily, weekly or monthly.

TECHNICAL SPECIFICATIONS

Tuning Range:

87.5MHz to 107.9MHz in 100kHz steps.

Antenna Input: 75Ω (BNC).

Sensitivity/SNR:

10dBμV required for 50dB mono-FM S/N.

Audio Response:

FM: ±1dB, 30Hz – 15kHz; de-emphasis is programmable at 75μs or 50μs or OFF.

HD Radio: ±0.25dB, 20Hz – 20kHz.

Reception Modes:

FM: Stereo / Stereo Auto-Blend / Forced-Mono.

HD Radio: HD1 through HD8; 'Split Mode' delivers L+R FM to the left audio channel and L+R HD1 to the right.

RDS Fields Displayed:

PS, PI (and call), RT, RT+1, RT+2, PTY, PTYN, C/T, M/S, DI, TP, TA; RDS Block Error Rate, Groups Transmitted (with use statistics), AF, ODA.

HD PAD Data Displayed:

SIS: Short Name, Universal Name, Station ID, Slogan, Message, Station Location.

Misc: Service Mode, Codec Mode, TX Gain, TX Blend Control.

PSD (HD1-HD8, each): Slogan, PTY, Artist, Title, Album; Logo and/or Artist Experience graphics.

Graphs and Metering:

L, R, L+R and L-R Program Audio; Audio Histogram; RSSI, RF SNR, HD Level and Cd/No levels and histograms.

Program Audio Outputs:

Balanced Analog: (XLR) Left and Right outputs are adjustable from -15dBu to +15dBu in 0.1dB steps.

AES Digital: (XLR) output at 44.1kHz or 48kHz is adjustable from -30dBFS to 0dBFS in 0.1dB steps.

Dante/AES67 Compatible: (RJ45) AoIP output at 44.1kHz (Dante) or 48kHz (Dante/AES67) is adjustable from -30dBFS to 0dBFS in 0.1dB steps.

Headphone Jack: (3.5mm TRS) with adjustable listening level.

Streaming Audio:

MP3 or OGG (selectable) streams have bitrates from 32kbps to 256kbps and sampling rates from 16kHz to 48kHz. Stream available as HTTP/Icecast or raw UDP.

Alarms:

Audio Loss: Alarm responds to the monitored service (FM or HD Radio). Alarm On/Off thresholds and Time On/Off intervals are programmable.

Low Signal: Alarm and reset trigger levels are independently adjustable relative to the FM carrier level display and have programmable Time On/Off settings.

RDS Alarm: Programmable Time On/Off for RDS Loss or PI Error.

RDS RadioText Not Updated: Programmable Time On.

Pilot Loss: Programmable Time On/Off for loss of Stereo Pilot.

HD Loss: Fixed metrics determine loss of HD Radio reception; programmable Time On/Off.

HD PSD Not Updated: For Artist, Title, Album, HD1-HD8; programmable Time On.

HD Logo Not Received: For HD1-HD8; programmable Time On.

HD Artist Experience Not Updated: For HD1-HD8; programmable Time On.

HD Image Issues: Image diagnostic utility.

HD Emergency Alerts: Instant email notification.

Email Alerts: Email or SMS/text-messaging can alert selected personnel to specific alarms.

Alarm 'Tallies': Individual open-collector NPN transistor outputs to ground are programmable for logic polarity and GPO assignment.

Real-Time Clock:

Auto-sets to Internet time; auto/manual DST setting, battery backup.

AoIP Port:

Dante-based, AES67-compatible (selectable) AoIP utility has independent IP, Audio Format and Transmit Flow settings.

LAN Port:

LAN connection to local network or Internet provides remote monitoring (listening and SOFIA 568 control); user-programmable network setup and streaming parameters.

Power Requirement:

12VDC at 450mA; a universal 90-240VAC inline switching power supply is included with the SOFIA 568 SiteStreamer+.

Mounting Options:

An optional rack adapter mounts one or two half-rack modules in a 1U, 19-inch rack space.

Size and Weight:

1.6"H x 8"W x 6"D; 5 lbs. shipping weight.



5805 Hwy 9, Felton CA 95018
www.inovonicsbroadcast.com
sales@inovonicsbroadcast.com
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