

SOFIA 565

FM 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 565 provides analog, AES3-digital and AoIP-streaming audio outputs and can display, validate and analyze RDS/RBDS program-related metadata. Multiple stations can be sequentially monitored using the programmable StationRotation™ feature. The SOFIA 565 includes a built-in BandScanner™, a real-time clock and full SNMP functionality.

SOFIA 565 FM SITESTREAMER+™

BASIC SITESTREAMER™ FEATURES

- Install the SiteStreamer within the reception contour of your station and monitor off-air FM broadcasts via the Web from anywhere in the world.
- Stays on-channel and on-mode through signal and power loss.
- Gives local and remote readout of all pertinent RDS/RBDS data.
- The built-in BandScanner displays a spectrum plot of the entire FM band (or a user-selected portion) and identifies stations by their RDS/ RBDS signature.
- 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.
- Front-panel alarms and rear-panel 'tallies' for Audio Loss, Low Signal, Pilot Loss and RDS Errors.
- Separate Admin and User passwords limit remote access to setup menus.
- When issued, free firmware updates are easily installed in the field.

SOFIA 565 SITESTREAMER+™ ADDED FEATURES



SOFIA 565 SITESTREAMER+™ WEB INTERFACE FEATURES



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 signal metrics are captured over the same time period, and the graphic display can show the past minute, 10 minutes, 1 hour, 6 hours or 24 hours.

View RDS/RBDS data in real time; includes RT+ tags.

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' settings to optimize operation over poor Internet paths.

PLUS:

- The SOFIA 565 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:

64.0MHz to 107.9MHz in 100kHz steps.

Antenna Input: 75Ω (BNC).

Sensitivity/SNR:

20dBμV required for 50dB mono-FM S/N.

Off-Air Frequency Response: ±1dB, 20Hz-15kHz.

Stereo Separation: >40dB.

Reception Modes:

Stereo / Stereo Auto-Blend / Forced-Monaural

Highcut (audio cutoff):

Disabled, 11kHz, 8kHz, 6kHz, 5kHz, 4kHz, 3kHz, 2kHz; menu-selectable for noise abatement.

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.

Graphs and Metering:

L, R, L+R, L-R Program Audio; Audio (Loudness) Histogram; RSSI, RF SNR, Multipath; realtime measurements 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) has adjustable listening level.

Streaming Audio:

Web-browser 'remote listening' stream has MP3 or OGG (selectable) encoding with bitrates from 32kbps to 256kbps and sampling rates from 16kHz to 48kHz; accommodates up to 10 simultaneous listeners. Stream available as HTTP/Icecast or raw UDP.

Alarms:

Audio Loss: 'Silence Sensor' alarm with programmable On/Off thresholds and Time On/Off intervals.

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 (hijacking).

RDS RadioText Not Updated: Programmable Time On.

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

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 565 control); user-programmable network setup and streaming parameters.

SNMP: Full remote functionality; resident MIB file.

Power Requirement:

12VDC at 390mA. A universal 88-264VAC, 50/60Hz inline switching power supply is supplied with the 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.



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