

iVAM2-ST2110



Hitless ST2110 single/multimode Multi-Channel Audio/Video monitor with OOB NMOS Control



State of the art hitless single and multimode ST2110 video and audio monitor with OOB NMOS control, touch screen controls, and APIs for remote management.



Wohler Technologies is upgrading its IP Ready iVAM Series of products with a new ST2110 Video and multi-channel audio monitor. The unit accepts single mode as well as multimode SFP's for ST2110 over a pair of 10G SFP slots and provides the ability to apply in-band NMOS (via SFP's) and Out Of Band NMOS control via a separate RJ45 network interface. It includes optional HDMI In and HDMI out and GPIO. Option cards for hitless AoIP monitoring for Dante and Ravenna are available.

Flexible Adaptable Future Proof

iVAM2-ST2110 is designed to be easy to operate, yet powerful enough to provide high quality, accessible and easy to use monitoring of hitless ST 2110 and HDMI within a compact form factor. In-band as well as Out Of Band NMOS controls to manage stream connections is provided via separate RJ45 IP interface. Touch screen & front panel controls duplicate previous mature design philosophies of shipping iAM units. At 2U, with enhanced speakers, the iVAM2-ST2110 also provides the powerful sound output and audio reproduction that Wohler is well known for.

Network Capable with Remote access options:

A front mounting USB port is available for simple software updates. All iAM Series monitors contain an onboard web server. Multiple units on the same network can be updated, monitored, and controlled via a web-based user interface.

Features/Benefits

- Hitless ST2110 video and audio monitoring along with SDI OUT, coupled with HDMI IN and HDMI Out and GPIO
- In-band NMOS via SFP's and Out Of Band NMOS via separately provided RJ45 network interface.
- **Standard I/O:** 2 x 10G SFP inputs to monitor hitless ST2110, SDI Out signals
- **Optional I/O:** options include HDMI IN/OUT, GPIO
- **Option Card:** To enable Analog, Dante & Ravenna
- **Redundant Power supply** for failsafe operation
- Measure Audio Loudness using ITU-R BS. 1770 or EBU R128 standards - included
- Video monitoring and audio monitoring of up to 16 channels of audio from multiple sources
- Built-in speakers, headphone jack, USB and Ethernet ports with APIs for remote management
- Store and retrieve presets via USB or remote web interface
- Software upgradeable via USB or network, upgrade multiple units at once

Mode	Part ID	Description
iVAM2-ST2110 (Base Unit)	8114-0370	2RU ST2110 Audio/Video monitoring and metering, OOB NMOS via RJ45. 16 analog outputs & downmixed analog outputs on XLRs. OPT-OUTPUT ROUTING is included. Capable of monitoring hitless single mode and multimode ST2110.
Options		
OPT-DOLBY D DD+ E	829167	Enable monitoring of Dolby® D, DD+, and E streams over 2110. Software activation key
OPT-DOLBY ATMOS	829163	Enable monitoring of Dolby® Atmos, as well as Dolby D, DD+, E and ED2 streams over 2110. Software activation key
OPT-GPIO	829198	Enables 4*GPI and 2*GPO's. Software activation key
OPT-ANALOG	829170-1	Enables 16 channels of analog output from selected source or mix
OPT-DANTE / OPT-DANTE ANLG	829171-2 or 829171-3	Enable monitoring from up to 64ch Dante™ input streams, including primary and secondary RJ-45 for hitless/2022-7 support (for Dante and 2110-30 signals) and a Gigabit SFP cage allowing multi-mode and single-mode network SFP's for AoIP signals. Order 829171-2 for Optical TOSLINK Input or 829171-3 for 2 x unbalanced Analog Inputs.
OPT-RAVENNA 64 / OPT-RAVENNA 64 ANLG	829172-5 or 829172-6	Enable monitoring from up to 64ch Ravenna™ input streams, including primary and secondary RJ-45 for hitless/2022-7 support (for Ravenna and 2110-30 signals) and a Gigabit SFP cage allowing multi-mode and single-mode network SFP's for AoIP signals. Order 829172-5 for Optical TOSLINK Input or 829172-6 for 2 x unbalanced Analog Inputs.



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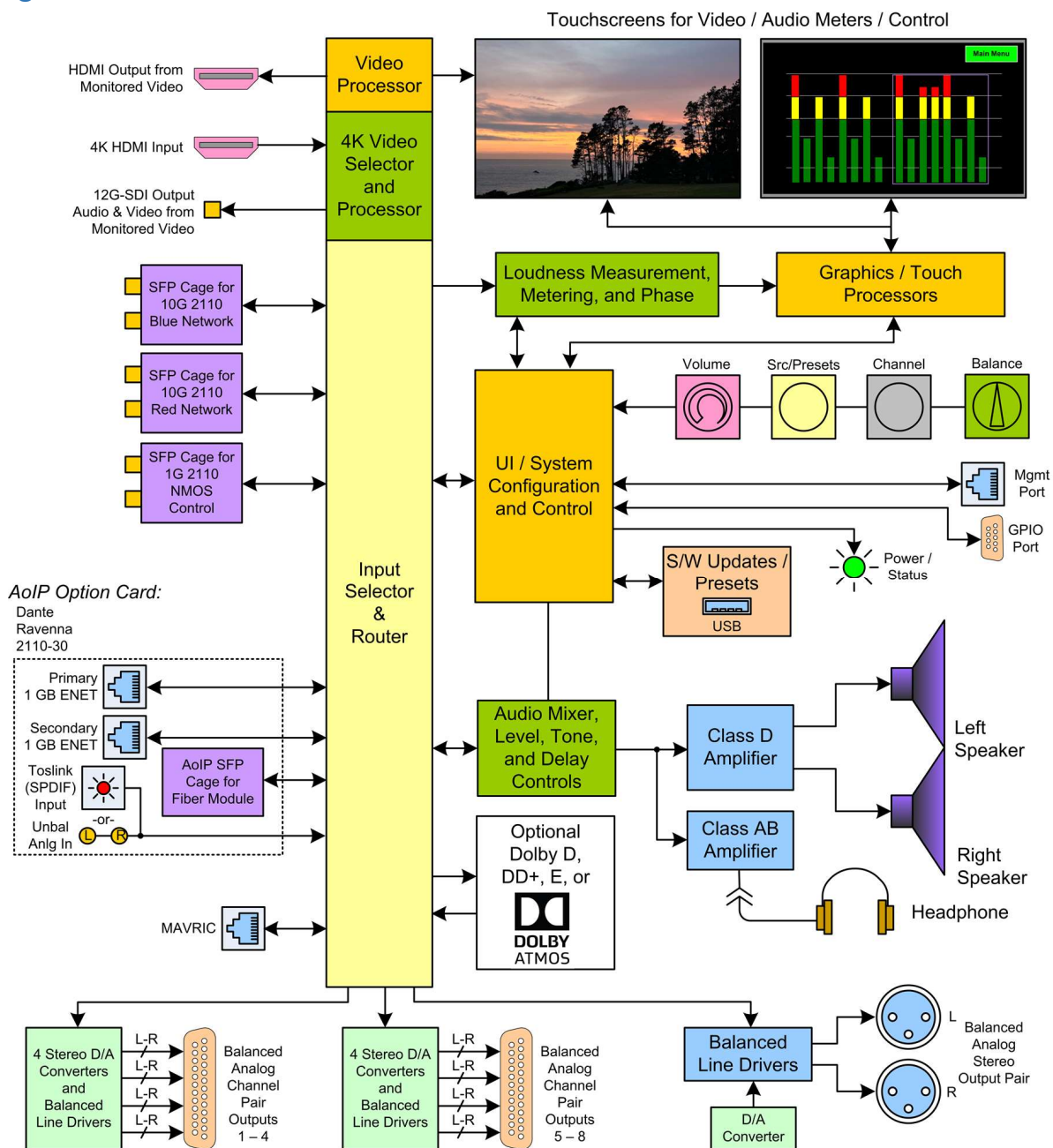


Multi-Channel Audio and Video Monitoring & Metering of Hitless ST2110

Rear Panel Shown below with AoIP option card, that includes Dante or Ravenna + Analog input



Block Diagram



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Multi-Channel Audio and Video Monitoring & Metering of Hitless ST2110

Specifications	iVAM2-ST2110
Dimensions (W x H x D)	2RU in standard 19" rack: 19" x 3.5" x 9.5" (483 mm x 89 mm x 242 mm)
Shipping & Net weight/dims	Shipping: 16.0 lbs. (7.3 kg) – 24" x 17" x 8" Net: 11.0 lbs. (5.00 kg) 19"x 9.5" x 3.5"
Power Consumption / Supply	40 Watts typical, 18VDC 100 to 240 VAC ± 10%, 50/60 Hz, CE & UL approved
Display Type / Resolution	4.3" (109 mm) LCD Capacitive Touchscreen x 2; 480H x 272V
Audio Channels	16 Max
Hum and Noise	Better than -75 dB below full output
Peak Acoustic Output	104 dB SPL @ 2 feet
Speaker Power Output	RMS Each Side: 15W Continuous / 30W Peak
Upgrades	Via USB or Web GUI; Upgrading multiple units available via web interface
Presets	Programmable/nameable. Can be copied from unit to unit via USB or GUI software / Ethernet
Available APIs	Get Available Presets; Get Preset Information; Get Active Preset; Set Mute/Unmute Clusters; Set Solo Cluster; Set Solo Channel; Source Select