



# SIGNAL MONITORING SOLUTIONS FOR BROADCASTERS, REMOTE PRODUCTION FACILITIES AND STUDIOS

#### **Audio Monitoring**

<b>&lt;</b> <	16-Channel
<b>&lt;</b> <	8-Channel
<b>&lt;</b> <	6-Channel
<b>&lt;</b> <	4-Channel
<b>~</b>	2-Channel

Page 4
Page 8
Page 14
Page 15
Page 17

### **Video Monitoring**

<b>«</b>	Singl	.e Screen
<b>«</b>	Multi	i-Screen
**	Quad	l Split

### **Audio Monitor Comparison Chart**



	Б	Б		Input/	Output Si	gnal					Feat	ures		
Audio Monitors	Page #	Rack Space	HD-SDI	SD-SDI	AES/EBU	Analog	MADI	Monitor Video	3G	Dolby	Dante/ Ravenna		Loudness	Etherne
16 Channel														
AMP1-16-M	4	1RU	$\checkmark$	$\checkmark$					✓					$\checkmark$
AMP2-E16V-M	6	2RU	✓	✓	✓	<b>✓</b>		$\checkmark$	✓	✓	$\checkmark$	$\checkmark$	✓	✓
AMP2-16V-M	6	2RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	✓		✓	$\checkmark$	$\checkmark$	$\checkmark$
AMP1-E16V-MD	7	1RU	✓	✓	$\checkmark$	<b>✓</b>		$\checkmark$	✓	$\checkmark$			$\checkmark$	✓
AMP1-16V-MD	7	1RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	✓				$\checkmark$	$\checkmark$
8 Channel														
AMP2-D8-MDA	8	2RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			✓	$\checkmark$				
AMP1-D8-MDA	9	1RU	$\checkmark$	$\checkmark$	$\checkmark$	<b>✓</b>			<b>√</b>	$\checkmark$				
AMP2-E8-MDA	10	2RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			✓	$\checkmark$				
AMP1-E8-MDA	11	1RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			✓	$\checkmark$				
AMP2-S8-MDA	12	2RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			✓					
AMP1-S8-MDA	13	1RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$					
VMDA-SUM8	14	1RU			$\checkmark$	$\checkmark$								
4 Channel														
AMP1-V2DA	15	1RU			$\checkmark$	$\checkmark$								
AMP1A-VTR2	16	1RU				$\checkmark$								
VMDA-4	16	1RU			$\checkmark$	$\checkmark$								
VMQ-4	16	1RU				$\checkmark$								
2 Channel														
AMP1-DA/106	17	1RU			$\checkmark$	$\checkmark$								
VMMDA-1	17	1RU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$								
AMP1A-Plus	18	1RU				$\checkmark$								
AMP2A-10S	19	2RU												
						✓								

#### Icon Key

Analog

































#### AMP1-16M 3G/HD/SD-SDI Audio Monitor



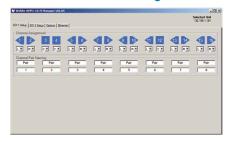


The AMP1-16M dual-input SDI audio monitor provides broadcasters high-performance monitoring of embedded audio in two 3G/HD/SD-SDI streams at an attractive price point. The 1-RU system de-embeds and provides metering and monitoring of any or all of the 16 audio channels in the selected 3G/HD/SD-SDI stream. It assures intuitive operation and clear display of levels and other critical information using bright 2.4-inch LED-backlit LCD displays, enabling one-touch monitoring and summing of any selected pair(s) to built-in speakers, headphones, or XLR balanced analog outputs.

Featuring a number of convenient capabilities including remote access for setup and storage of user-defined presets via Ethernet and USB connections, along with gain adjustment/trim on individual audio channels (as well as select or deselect channel pairs) with the ability to assign channels as left, right, or center (both) to the internal audio system and the analog outputs. It offers both pass-throughof each SDI input and a reclocked output of the selected monitored SDI stream.

- « Simultaneous level metering of 16 de-embedded audio channels from SDI
- « High resolution metering with 166-segment displays
- « Quick, intuitive push-button selection of any pairs to sum to monitor
- « Monitor through built-in speakers, headphones or analog outputs with optional muting for internal speakers
- « Stereo or mono monitoring
- « Stereo phase indicators
- » Adjustable Volume and Balance
- » Adjustable Channel Trim
- « Easy update and management software for PCs
- « Shallow chassis depth for easy installation in OB vehicles and consoles

#### PC Control and Conf guration



Intuitive PC software makes it easy to configure, store and load presets.



#### AMP2-16V Series 16-Channel Modular Audio/Video Monitor



**DOLBY** 

The AMP2-16V feature list is the longest in the industry, yet the product is operated with one-touch simplicity. In addition to its top-quality audio system, it features simultaneous multi-format monitoring, quick program selection, instant stereo downmix, loudness monitoring, internal channel mixing including SDI re-embedding, and audio delays, plus a wide variety of meter scales and ways to view meters, video, and Dolby® or SMPTE 2020 metadata.

The AMP2-16V offers Dolby Zoom, Dolby E line position, and CRC error monitoring, as well as automatic system configuration based upon signal inputs, 32 complete system configuration presets, a complete internal help system, and Ethernet software updates. AMP2-16V could be the last audio monitor you will ever need. The superb quality, upgradeability and ease of use is why broadcasters consistently choose the AMP2-16V series monitors for their most demanding applications.

#### **Loudness Enhancements**



- « Supports worldwide loudness standards
- « Display loudness (LKFS or LUFS) within window, maximum true peak, maximum loudness, program loudness, and LRA
- « Start, pause, reset, and stop controls for manual monitoring
- « Pause and reset control for continuous monitoring
- « Alarm enable/disable with adjustable tolerance
- « Color-coded alarm indications

Input/Output Module Options: Multiple card slots allow for flexible and cost-effective configuration. Select the module cards you need now, our future proof design allows you to add additional cards/features as your requirements change.



#### **AoIP Input Card**

Decodes up to 64 Dante streams or 256 Ravenna/AES67 streams via Ethernet port.

Order Part Number (Dante): 829090 Order Part Number (Ravenna): 829091

#### **AES Input Card**

8 pair (16-channel) AES audio input module

Order Part Number: 829001

#### 3G/HD/SD-SDI Audio/Video De-Embedder/Re-Emedder

16 Channel 3G/HD/SD-SDI dual input Audio/Video module with 8 de-muxed AES output pairs from SDI Order Part Number: 829024

#### **AES Output Card**

8 pair (16-channel) AES audio output module

Order Part Number: 829002

#### Analog I/O & TOSLINK Card

8 Channel Analog inputs on DB-25; 8 Channel Analog out puts on DB-25. Also includes optical TOSLINK input.

Order Part Number: 829021

#### Dolby® Decoder Card

Field upgrade for non-Dolby units. AMP2-16V models support 1 Dolby D/E/DD+ daughter card

Order Part Number: 829014

AMP2-16V-M 16-channel dual input, 3G/HD/SD-SDI, audio with video display AMP2-E16V-M 16-channel dual input, 3G/HD/SD-SDI, audio with video display, Dolby D/E /DD+

<sup>\*</sup> Loudness hot key makes the loudness screen instantly accessible from main menu.

#### 16-Channel Multi-format Audio/Video Monitor **AMP1-16V Series**



The AMP1-16 Series monitors represents leading edge technology and features. The audio fidelity of our most popular models have been improved with a Class-D digital amplifier system to drive the integrated midrange and low frequency speaker drivers.

These units monitor 16 channels of embedded 3G/HD/SD-SDI and AES audio, while the AMP1-E16V-MD includes Dolby® D, E, and DD+ capability. All channels can be selected for simultaneous display and concurrently monitored on an LCD screen that is easily user-configured for bar graph meter look, scale, and ballistics.

### AMP1-E16V-MD











audio metadata analysis monitor.



The powerful AMP1-E16-MD with Dolby D, Dolby E, and Dolby Digital Plus decode audio support and







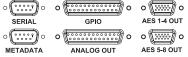
**DOLBY** 





o <u>₩</u> **∄**o

AES 5-8 OUT















2 3G/HD/SD-SDI Inputs on BNC

8 Unhalanced AFS Input Pairs on BNC



- 1 3G/HD/SD-SDI Reclocked Output on BNC
- 8 Unbalanced AES Output Pairs from Selected Source on HD-15 x2
- 8 Balanced Analog Outputs on DB-25

### AMP1-16V-M















The combination of Wohler's accurate audio monitoring with video. Mix, monitor, meter, and convert 16 channels of 3G/HD/SD-SDI or AES audio with a customizable and intuitive UI, while

viewing your SDI video on a third screen.





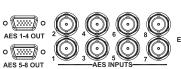














2 3G/HD/SD-SDI Inputs on BNC 8 Unbalanced AES

Input Pairs on BNC



- 1 3G/HD/SD-SDI Reclocked Output on BNC
- 8 Unbalanced AES Output Pairs from Selected Source on HD-15 x2
- 8 Balanced Analog Outputs on DB-25



#### AMP2-D8 Series 8-Channel Monitor With Dolby®





A significant feature of the AMP2-D8 Series is the ability to process and monitor up to eight channels of multi-format audio from a Dolby® D bit stream, a 3G/HD/SD-SDI bit stream, two sets of four AES/EBU signal pairs (balanced and unbalanced), or eight balanced analog channels. The AMP2-D8DA audio monitor is a complete, exceptionally high-quality audio monitoring solution capable of monitoring audio from Dolby D, AES/EBU, and analog signal sources.

### AMP2-D8-MDA







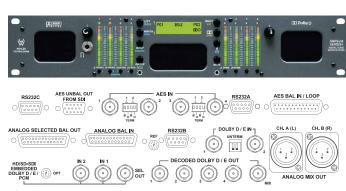












Advanced 8-channel dual 3G/HD/SD-SDI embedded Dolby D and AES audio monitor with metering and alternate undecoded Dolby, AES and analog inputs. Mix, monitor, de-embed, meter and convert to AES and analog.

Inputs

- 2 Dolby-D Inputs on BNC
- 2 3G/HD/SD-SDI Inputs on BNC
- 4 Balanced AES Input Pairs on DB-25
- 4 Unbalanced AES Input Pairs on BNC
- 8 Balanced Analog Inputs on DB-25
- Outputs
- 4 AES Pair Decoded Dolby-D/ Outputs on BNC
- 1 3G/HD/SD-SDI Reclocked Output on BNC
- 1 Unbalanced AES Mix Output from DolbyE/AC-3 on BNC
- 4 Balanced AES Loop-through Outputs from AES on DB-25
- 4 Unbalanced AES Output Pairs from SDI on DB-15
- 2 Balanced Analog Outputs from Selected Source on XLR
- 8 Balanced Analog Loop-through from Selected Source on DB-25

#### AMP1-D8 Series 8-Channel Monitor With Dolby®



DOLBY

The AMP1-D8-MDA 1RU in-rack audio monitor is capable of outputting and/or displaying encoded, multi-channel (up to 8 channels) of audio from Dolby® D streams decoded from AES and 3G/HD/SD-SDI multi-channel. The ability to switch seamlessly between encoded or discrete PCM sources, in addition to providing full, simultaneous demuxed output of the multi-channel source offers a significant new operational capabilities.

### AMP1-D8-MDA



















8-channel (2 groups) 3G/HD/SD-SDI audio monitor with Dolby D and 3 alternate AES and analog inputs. Mix, monitor, meter and convert to AES and analog.

Inputs

- 2 3G/HD/SD-SDI Inputs on BNC
- 4 Unbalanced AES Input Pairs on BNC
- 4 Balanced AES Input Pairs on DB-25
- 8 Balanced Analog Inputs on DB-25
- 1 3G/HD/SD-SDI Reclocked Output on BNC
  - 4 Balanced AES Loop-through Output Pairs on DB-25
  - 4 Balanced AES Outputs from SDI on DB-25
  - 2 Balanced Analog Outputs from Selected Source on XLR
  - 8 Balanced Analog Outputs from Selected Source on DB-25

#### AMP2-E8 Series 8-Channel Monitor With Dolby®



DOLBY

The AMP2-E8-MDA can process and monitor up to eight channels of audio from a Dolby® D, Dolby E or Dolby Digital (DD+) bit stream, a 3G/HD/SD-SDI bit stream, two sets of four AES/EBU signalpairs (balanced and unbalanced), or eight balanced analog channels. The AMP2-E8DA audio monitor is a complete, exceptionally high-quality audio monitoring solution capable of monitoring audio from Dolby D, Dolby E, Dolby Digital (DD+), AES/EBU, and analog signal sources.

### AMP2-E8-MDA







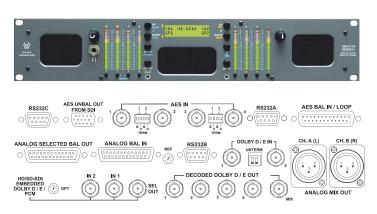












Advanced 8-channel dual 3G/HD/SD-SDI embedded Dolby D, E, DD+ and AES audio monitor with metering and alternate undecoded Dolby, AES and analog inputs.Mix, monitor, de-embed, meter and convert to AES and analog.

- 2 Dolby-D/E/DD+ Inputs on BNC
- 2 3G/HD/SD-SDI Inputs on BNC
- 4 Balanced AES Input Pairs on DB-25
- 4 Unbalanced AES Input Pairs on BNC
- 8 Balanced Analog Inputs on DB-25
- 4 AES Pair Decoded Dolby-D/E/DD+
- Outputs on BNC 1 3G/HD/SD-SDI Redocked Output on BNC
- 1 Unbalanced AES Mix Output from DolbyE/AC-3 on BNC
- 4 Balanced AES Loop-through Outputs from AES on DB-25
- 4 Unbalanced AES Output Pairs from SDI on DB-15
- 2 Balanced Analog Outputs from Selected Source on XLR
- 8 Balanced Analog Loop-through from Selected Source on DB-25

#### AMP1-D8 Series 8-Channel Monitor With Dolby®





The AMP1-E8-MDA monitor is capable of outputting and/or displaying encoded, multi-channel (up to 8 channels) audio from Dolby® E, Dolby Digital, or Dolby Digital Plus, streams de-embedded from either 3G/HD/SD-SDI without prior Dolby encoding. The ability to switch seamlessly between encoded or discretely embedded sources, in addition to providing full, simultaneous demuxed output of the multi-channel source, offers a significant new operational capability in a single monitor unit.

These units feature 3 audiophile-quality drivers, and 3 power amplifiers; 2 speakers and amplifiers reproduce midrange and high frequency information in stereo, while a third amp/driver combination handles summed LF information below the 500Hz crossover point.

Extended HF response reveals potential problems with audio whine or hiss and electronic, rather than acoustic, cancellation of bass frequencies provides positive audible detection of reversed polarity audio feeds.









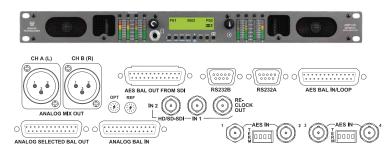












8-channel (2 groups) 3G/HD/SD-SDI audio monitor with Dolby D and 3 alternate AES and analog inputs. Mix, monitor, meter and convert to AES and analog.

Inputs

- 2 3G/HD/SD-SDI Inputs on BNC
- 4 Unbalanced AES Input Pairs on BNC
- 4 Balanced AES Input Pairs on DB-25
- 8 Balanced Analog Inputs on DB-25
- 1 3G/HD/SD-SDI Reclocked Output on BNC 4 Balanced AES Loop-through
  - Output Pairs on DB-25 4 Balanced AES Outputs from SDI on DB-25
  - 2 Balanced Analog Outputs from Selected Source on XLR
  - 8 Balanced Analog Outputs from Selected Source on DB-25

28 26



#### AMP2-S8 Series 8-Channel Monitor



The AMP2-S8-MDA is ideally suited for use in space-critical environments such as TV facilities, studios, VTR bays, mobile production vehicles, satellite links and indeed, any rackmount environment where multi-channel HD audio monitoring is required. The AMP2-S8DA is a complete, exceptionally high-quality audio monitoring system offering premium quality 8 channel analog, and AES/EBU digital multi-channel audio monitoring and conversion as well as professional level metering in a compact two rackspace cabinet.

### AMP2-S8-MDA









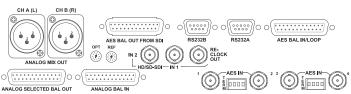












8-channel (2 groups) 3G/HD/SD-SDI audio monitor with alternate AES and analog inputs. Mix, monitor, meter and convert to AES and analog.

nputs

- 2 3G/HD/SD-SDI Inputs on BNC
- 4 Unbalanced AES Input Pairs on BNC
- 4 Balanced AES Input Pairs on DB-25
- 8 Balanced Analog Inputs on DB-25

Outputs

- 13G/HD/SD-SDI Reclocked Output on BNC
- 4 Balanced AES Loop-through Output Pairs on DB-25
- 4 Balanced AES Outputs from SDI
- 2 Balanced Analog Outputs from Selected
- 8 Balanced Analog Outputs from Selected

#### AMP1-S8 Series 8-Channel Monitor



The AMP1-S8DA monitor is an exceptionally high-quality audio monitor systems offering premium quality 8-channel analog, AES/EBU multi-channel audio monitoring and conversion as well as professional level metering.

The front panel features an LCD display of phase/polarity relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities. A headphone jack is provided on the front panel that automatically mutes the speakers.

These units are ideally suited for use in space-critical environments such as TV facilities, studios, VTR bays, mobile production vehicles, satellite links and indeed, any rack mount environment where multi-channel audio monitoring is required.

### AMP1-S8-MDA







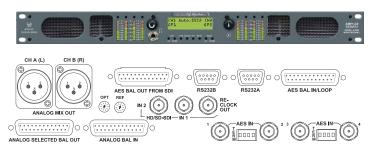












8-channel (2 groups) 3G/HD/SD-SDI audio monitor with 3 alternate AES and analog inputs. Mix, monitor, meter and convert to AES and analog.

- 2 3G/HD/SD-SDI Inputs on BNC
- 4 Unbalanced AES Input Pairs on BNC
- 4 Balanced AES Input Pairs on DB-25
- 8 Balanced Analog Inputs on DB-25
- 1 3G/HD/SD-SDI Reclocked Output
  - 4 Balanced AES Loop-through Output Pairs on DB-25
  - 4 Balanced AES Outputs from SDI on DB-25
  - 2 Balanced Analog Outputs from Selected Source on XLR
  - 8 Balanced Analog Outputs from Selected Source on DB-25

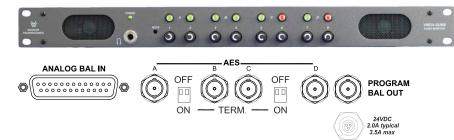


### VMDA-SUM8









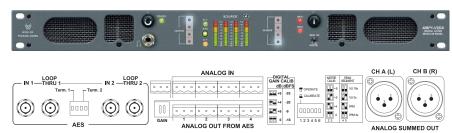
8-channel AES and analog audio mixing monitor with per channel volume controls and program output.

**Dimensions:** (H x W x D) 1.75x 19 x 8.5" (44 x 483 x 216mm)

Weight: 6.8 lbs (3.1 kg)
Power Consumption: 70W







4-channel audio summing, metering and monitoring unit that selects between either 4 analog or 2 AES input pairs.

Level Meters: Four 26-segment LED level meters
Phase Monitoring: Wohler 3-LED phase indication
Visible Capabilities: Selectable reference level/display
mode/PPM ballistics/peak hold/alternate scales
Dimensions: (H x W x D) 1.75 x 19 x 12" (44.5 x 483 x 305mm)

Weight: 9.5 lbs (4.3 kg)
Power Consumption: 30W

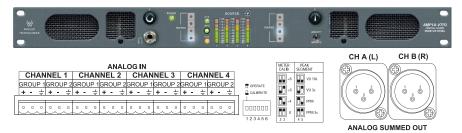
### AMP1A-VTR2











**4-channel analog audio monitor** ideally suited for video tape recorders. Individually meter, monitor, and sum 4 channels from 1 of 2 input groups.

Level Meters: Four 26-Segment LED Level Meters
Visible Capabilities: Selectable reference level/display
mode/PPM ballistics/peak hold/alternate scales

Additional Features: Volume and balance pots, sum push buttons, power LED, and headphone output

**Dimensions:** (H x W x D) 1.75 x 19 x 12" (44.5 x 483 x 305mm)

Weight: 9 lbs (3.17kg)
Power Consumption: 30W



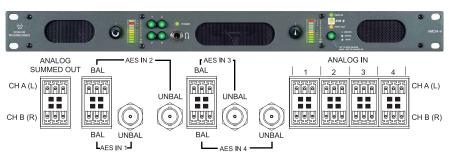












2-channel AES and 4-channel analog audio monitor with metering that either selects 1 of 4 AES or analog pairs, or sums any of the 4 analog pairs.

Level Meters: Two 10-segment LED level meters
Phase Monitoring: Wohler 3-LED phase indication
Dimensions: (H x W x D) 1.75x 19 x 8.5" (44 x 483 x 216mm)

Weight: 6.8 lbs (3.1 kg)
Power Consumption: 70W

VMQ-4







ANALOG IN

1 2 3 4

4-channel analog audio monitor designed for intercom applications. Activity lights and mute for each channel.

Additional Features: Volume pots, lighted push buttons, power LED, and headphone output

**Dimensions:** (H x W x D) 1.75 x 19 x 9.5" (44.5 x 483 x 241mm)

Weight: 7lbs. (3.2kg)
Power Consumption: 35W

### VMMDA-1

















CHA(L) CHA(L) UNBAL CHB(R) 2-channel HD/SD-SDI, AES and analog monitor with metering and SDI sub-group selector.

Level Meters: Two 10-Segment LED Level Meters Phase Metering: Wohler 3-LED Phase Indication

**Dimensions:** (H x W x D) 1.75 x 19 x 8.5" (44.5 x 483 x 216mm)

**Weight:** 6.8 lbs (3.1 kg) Power Consumption: 70W

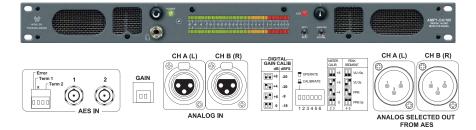
### AMP1-DA/106











2-channel AES and analog audio monitor with metering that selects between 1 of 2 AES-pair or an analog source.

Level Meters: Two 106-segment LED level meters Visible Capabilities: Selectable reference level/display mode/PPM ballistics/peak hold/alternate scales Additional Features: Volume and balance pots, selectable buttons, power LED, and headphone out

**Dimensions:** (H x W x D) 1.75 x 19 x 12" (44.5 x 483 x 305mm)

**Weight:** 9.5 lbs (4.3 kg) Power Consumption: 30W



### AMP1A-Plus







2-channel analog audio monitor that switches between 2 stereo sources.

Additional Features: Volume and balance pots, source toggle, power LED, and headphone output

**Dimensions:** (H x W x D) 1.75 x 19 x 12" (44.5 x 483 x 305mm)

Weight: 7 lbs (3.17kg)
Power Consumption: 30W



### AMP2A-10S 🔼 🔟 📑









								Α	NAL	.OG	IN										_	- CH A (L)-	— (	CHB (R	<b>)</b> —
	11		2		3		4		5		6		7		8		9		10		6	n.)	V.	\	$\neg$
CH A (L)		-						-	-		-	-	-	-		Ŀ			-				7		7
	+ -	÷j.	+ -	÷ +	٠-	÷ +	- ÷	+ -	· ÷	+	- ÷	+	- ÷	+	- ±	+	- :	÷[+	٠-	늰	11(	(6,6)	Щ(	6,6	))
CHB(R)		ا		-		-			٠.	-		-		-	٠.	·	٠.			-				Ů	/ D
																						ANALOG SI	ELEC	TED OU	πリ

2-channel analog audio monitor with metering that switches between 10 stereo sources.

Level Meters: Two 20-segment LED level meters Phase Monitoring: Wohler 3-LED phase indication Additional Features: Volume and balance pots, rotary selector, power LED, and headphone output

**Dimensions:** [H x W x D 3.5 x 19 x 12" [89 x 483 x 305mm]

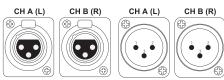
Weight: 18lbs (8.2kg) Power Consumption: 45W











ANALOG IN ANALOG LOOP-THRU

2-channel half-rack analog audio monitor with A, B or summed operation.

Additional Features: Volume pot, toggle switch, power LED, and headphone output

**Dimensions:** (H x W x D) 1.75 x 8.5 x 7.5" (44.5 x 216x 191mm)

Weight: 2 lbs (0.9kg) Power Consumption: 15W

### Multi-Screen / Single Screen



RM Series RMT Series

### **Quad Split Video Monitor**



**RMQ** Series

### Single Screen Video Monitor



**HDM Series** 



					Input/0	utput Sig	nal			Featu	res	
Video Monitors	Page #	Rack Space	3G-SDI	HD-SDI	SD-SDI	CVBS	HDMI	# of Screens	Display Size	Resolution H x V	Luminance cd/m^2	Contrast
Single Screen												
HDM-215-3G	22	*	✓	$\checkmark$	✓	✓	$\checkmark$	1	21.5"	1920 x 1080	300	600:1
RMT-173-3G	23	*	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	1	17.3"	1920 x 1080	300	600:1
Multi-Screen												
RM-4210W-3G2	24	4	$\checkmark$	$\checkmark$	$\checkmark$	V-input		2	9.0"	800 x 480	400	400:1
RM-3270W-3G	25	3	$\checkmark$	$\checkmark$	$\checkmark$	V-input		2	7.0"	800 x 480	400	300:1
RM-3270W-3G2	25	3	$\checkmark$	$\checkmark$	$\checkmark$	V-input		2	7.0"	800 x 480	400	300:1
RM-2443WS-23G	26	2		$\checkmark$	$\checkmark$	V-input		4	4.3"	480 x 272	400	400:1

Quad Split											
RMQ-200-3G	27	7	$\checkmark$	<b>✓</b>	$\checkmark$	$\checkmark$	4 or 1	20"	1600 x 900	250	1000:1
RMQ-230-3G	27	*	$\checkmark$			$\checkmark$	4 or 1	23"	1920 x 1080	350	900:1

V = Composite CVBS Icon Key \* = Consult Factory

3G

SD/SDI

HD/SDI



MADI

AES/EBU





Phase Metering

















Level Meters

### HDM-215-3G





#### 21.5" LED-backlit HD LCD Video Monitor

Native Aspect Ratio: 16:9 Viewing Angle: 178°H x 178°V Resolution: 10-bit 1920 x 1080 Luminance: 300 cd/m^2

Contrast: 600:1

**Dimensions:** 18.7" H x 10.6" V (475 mm H x 267 mm V)

Weight: 16 lbs. (7.3 kg)/13 lbs (5.9 kg)
Power Consumption: 60W

Audio Capabilities: On-screen level meters with audio

from built-in speakers or headphone jack

The state-of-the-art HDM-215-3G video monitor features a 10-bit 1920 x 1080 display that can be configured as a dual split display, a large screen with one smaller view, or as a single large display screen. They are ideally suited for use in news and transmission control rooms, program production, channel branding and any environment that requires high quality video monitoring.

- « Simultaneously monitor two display screens and control each image independently
- « User-defined hot key functionality for either H/V delay, underscan, on-screen display, and more
- « On-screen, 16-channel level metering provides audio confidence monitoring
- « Tally and on-screen labeling provide quick and easy signal identification
- « CRT-style image controls allow video image enhancement for each screen individually
- « Supports multi-format analog and digital audio signals
- « Allows adjustment of the parameters for each screen
- « Provides high-quality waveform or vector monitoring (for SDI)
- « User-adjustable color temperatures with presets
- « Line 21 closed caption display for NTSC-CVBS

#### PiP Display Mode



#### PbP Display Mode



### RMT-173-3G





#### 17.3" LED-backlit HD LCD Video Monitor

Native Aspect Ratio: 16:9 Viewing Angle: 160°H x 140°V Resolution: 8-bit 1920 x 1080 Luminance: 300 cd/m^2

Contrast: 600:1

**Dimensions:** 16.5" W x 12.1" H x 2.8" D (420 mm x 308 mm x 71.8 mm)

Weight: 16 lbs. (7.3 kg)/13 lbs (5.9 kg)
Power Consumption: 60W

Audio Capabilities: On-screen level meters with audio from built-in speakers or headphone jack

The RMT-173-3G is designed for a wide range of applications where format flexibility and form factor are key. This monitor is excellent for studio, MCR, Edit suites, ENG & OB production environments. The RMT-173-3G supports all formats of 3G/HD/SD-SDI, HDMI,DVI, composite, Y/C & component video inputs. Featuring a 8-bit 1920 x 1080 TFT/LCD screen, a perfect medium is reached in the scaling and interpolation process, providing superb imaging regardless of video format.

A plethora of in-monitor display features including IMD, Tally, timecode, in-screen audio level metering, format display, and area/title safe markers. Also a host of audio tools including level metering and built-in speaker monitoring of its dual stereo analog inputs or SDI embedded audio. Stand or rack-mount configurations are available.



### RM-4210W-3G2



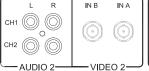


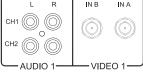
















Dual 9" HD/SD-SDI tilting video monitor with dual inputs and embedded audio metering and monitoring.

Audio Capabilities: On-screen level meters with audio from built-in speakers or headphone jack

Native Aspect Ratio: 16:9

Video Format: Up to 1080i60/p30 Video Format

Viewing Angle: 140°H x 120°V

Resolution: 800 x 480

**Dimensions:** (H x W x D) 7 x 19 x 2.5" (177.8 x 482.5 x 63.5mm)

**Weight:** 4 lbs (1.8 kg) Power Consumption: 20W

### RM-3270WS-3G2 🔼 🔟







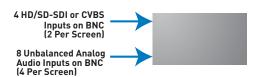








AUDIO 1-



VIDEO 2-

AUDIO 2

Dual 7" HD/SD-SDI tilting video monitor with dual inputs and embedded audio metering and monitoring.

Audio Capabilities: On-screen level meters with audio from built-in speakers or headphone jack

Selection: Front A/B Selection Native Aspect Ratio: 16:9 Video Format: Up to 1080i60/p30 Viewing Angle: 140°H x 120°V

Resolution: 800 x 480

**Dimension:** (H x W x D) 5.25 x 19 x 2.44" (132 x 483 x 62mm)

**Weight:** 4 lbs (1.81 kg) Power Consumption: 10W

### RM-3270WS-3G



VIDEO 1

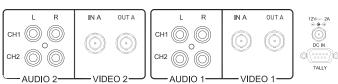














Dual 7" HD/SD-SDI tilting video monitor with loop-through, embedded and analog audio metering and monitoring.

Audio Capabilities: On-screen level meters with audio from built-in speakers or headphone jack

Native Aspect Ratio: 16:9 Video Format: Up to 1080i60/p30 Viewing Angle: 140°H x 120°V

Resolution: 800 x 480

**Dimension:** (H x W x D) 5.25 x 19 x 2.44" (132 x 483 x 62mm)

Weight: 4 lbs (1.81 kg) Power Consumption: 10W



Quad 4.3" 3 G / HD/SD-SDI tilting video monitor with dual inputs and embedded audio metering and monitoring.

Audio Capabilities: On-screen level meters with audio

from built-in speakers or headphone jack

Selection: Front A/B selection Native Aspect Ratio: 16:9 Video Format: Up to 1080i60/p30 Viewing Angle: 160°H x 160°V Resolution: 480 x 272

**Dimensions:** (H x W x D) 3.5 x 19 x 2.4" (89 x 483 x 60.96mm)

**Weight:** 2 lbs (0.9 kg) Power Consumption: 30W



### RMQ-200-3G

### RMQ-230-3G



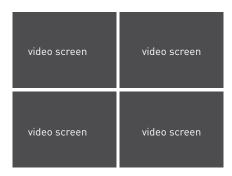
20" Display



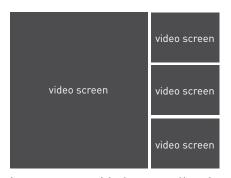
23" Display

The RMQ's are ideally suited for use in news and transmission control rooms, program production, channel branding and any environment that requires intensive monitoring. The RMQ Series accepts up to 4 channels of 3G/HD/SD-SDI/CVBS signals (3G models) and one HDMI/DVI input selectable for Channel 1. Each individual display supports waveform, vector scope, audio de-embedding, and metering of up to 16 channels, UMD, format display and various markers. The state-of-the-art RMQ Series monitors can be configured as a quad split display of four equal areas, as a large screen with three smaller views, or as a single large display screen.

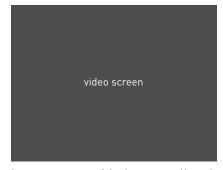
#### **Screen Configuration**



Four equal screens



Large screen with three smaller views



Large screen with three smaller views

#### Inputs/Outputs

#### Inputs

- « 4 3G/HD/SD-SDI/CVBS inputs
- « 4 analog audio pair inputs
- « 1 HDMI input

#### Outputs

- « 13G/HD/SD-SDI output
- « 1 HDMI output



### THE NEW iAM<sup>TM</sup> SERIES

Reinventing monitoring. Again.



SDI | MADI | DANTE™ | AES67 | ST2022 | MPEG | ST2110

# *i*AM-MIX8/16

### Multi-Channel Audio Monitoring & Mixing



Intuitive monitoring and mixing of audio from multiple sources, with browser-based user interface.

**(** ) AUDIO MADI SDI **AES** 3G/HD/SD-SDI A ANALOG †!†! DOLBY AUDIO MIXING DOLBY 0 **HEADPHONE** SPEAKERS **H** ↔ **J** OUCHSCREEN







The iAM Command & Control interface

Wohler Technologies has been in the business of in-rack monitoring for over 25 years. In fact we invented it! Now with the introduction of the iAM Series, Wohler has re-invented this critical piece of broadcast technology for the modern media enterprise.

#### Flexible. Adaptable. Future Proof.

Specifically designed for fast-paced OB, studio and live-to-air production environments, iAM-MIX provides intuitive audio signal monitoring with instant access to 8 stored configurations of any user-defined channel groups for easy navigation between up to 64 channels.

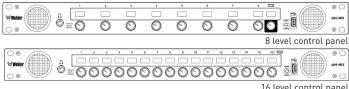
iAM-MIX comes equipped with input options for Analog, AES3, 3G/HD/SD-SDI and multi/ singlemode fiber and coax MADI audio, alongside either Dante™ or Ravenna / AES67 and allows any source format to be routed to the front panel controls for monitoring and mixing. Choose from either 8 or 16 level controls both with an independent master level control and instant mute capability. Individual OLED display indicators show status, presence metering and channel name - which can be manually edited or automatically read from a network connected router.

Multiple units on the same network can be controlled via a browser-based user interface that supports fast configuration with role-based authentication to protect critical setups.

iAM-MIX is the perfect solution for any application that requires a simple, compact solution for monitoring a range of audio signals. Units are available with either 8 or 16 controls.

#### Features/Benefits:

- Fast selection and summing of up to 16 audio channels.
- Intuitive front panel with 8 or 16 individual level controls and quick muting.
- Channel names can be displayed for each input.
- Store and retrieve presets via USB or remote software control.
- Built-in speakers, headphone jack, USB and Ethernet ports.
- A range of useful connectors, including SFP slots for future I/O support.
- API for remote control.
- Apply software feature upgrades with zero downtime.
- Compact, space-saving units.



16 level control panel

#### Part Numbers:

Base Units:

iAM-MIX8 8114-0090 Monitoring from multiple sources incl.AoIP. 8 controls. Includes OPT-ANLG. 1RU. iAM-MIX16 8114-0140 Monitoring from multiple sources incl.AoIP. 16 controls. Includes OPT-ANLG. 1RU.

Processing	Options:	
OPT-DOLB	Υ	829077

Allows decoding and monitoring of Dolby® D, DD+, & E streams. I/O Options: 829081 SFP-MMMF MADI fiber transceiver; Multimode, LC Connectors. 829082 MADI fiber transceiver; Singlemode, LC Connectors.

SFP-MSMF SFP-SDIB 829089 3G/HD/SD-SDI Active Loopback Video transceiver, HD-BNC. Enables decoding and monitoring of Dante™ Input streams. 829078 OPT-DANTE 829079 Enables decoding and monitoring of Ravenna™ or AES67 Input streams. **OPT-RAVENNA** 



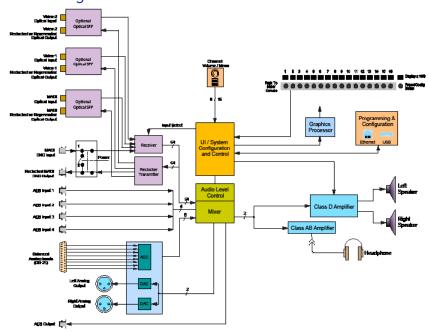
# *i*AM-MIX-8/16

### Multi-Channel Audio Monitoring & Mixing

#### Rear Panel



#### Block Diagram



#### **Specifications**

Dimensions (W x H x D)	1RU in standard 19" rack: 19" x 1.75" x 6" (482.6 mm x 44.5 mm x 152.4 mm)						
Shipping Weight / Net Weight	6.5 lbs. (2.9 kg) / 4.5 lbs. (2.0 kg)						
Power Consumption/Requirements	30 W typical, 100 to 240 VAC ± 10%, 50/60 Hz						
Inputs/Outputs	<ul> <li>3 SFP slots</li> <li>1 reclocked or regenerated MADI BNC with switched loop through</li> <li>4 AES input</li> <li>4 AES output</li> <li>8 Balanced analog inputs</li> <li>1 headphone (1/4" jack)</li> <li>1 AoIP input (RJ45)</li> <li>1 Ethernet (RJ45) for management</li> </ul>						
Display Type	OLED x 8 / 16						
Sample Rate	48 kHz						
Frequency Response	150 Hz to 16 kHz ( $\pm$ 5 dB) acoustic, 40 Hz to 20 kHz ( $\pm$ 1dB) electrical						
Distortion	< 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical						
Acoustic Output	90 dB SPL @ 2 feet						
Presets	8 programmable/nameable. Can be copied from unit to unit via USB or GUI software and Ethernet						

# iAM-AUDIO-1

### Multi-Channel Audio Monitoring & Metering



Intuitive monitoring and metering of audio from multiple sources, with browser-based user interface and touch screen controls.

Wohler Technologies has been in the business of in-rack monitoring for over 25 years. In fact we invented it! Now with the introduction of the iAM Series, Wohler has re-invented this critical piece of broadcast technology for the modern media enterprise.

#### Flexible. Adaptable. Future Proof.

iAM-AUDIO is designed to be easy to operate yet powerful enough to provide high quality, intuitive monitoring of multiple signal types within a compact form factor.

iAM-AUDIO is equipped with a variety of metering options and can support Analog, AES3 and MADI inputs with additional options for AoIP formats, including Dante™, Ravenna™ and AES67, 3G/HD/SD-SDI and a growing range of I/O via an SFP interface.

High quality touch screen panels allow for elegant and intuitive control, with simple to navigate menus and configuration. Physical front panel controls provide access to main and auxiliary volume controls, balance control and a front mounting USB port for simple software updates.

All iAM Series monitors are built with an on-board web server. Multiple units on the same network can be updated, monitored and controlled via a browser-based user interface that supports fast configuration with role-based authentication that protects critical configurations from unauthorized alteration.

With both front mounting speakers and subwoofers, the iAM-AUDIO provides powerful sound output and audio reproduction that adheres to Wohler's own strict specifications.

iAM-AUDIO can be software upgraded to support new and emerging technologies and is the perfect solution for any application that requires a compact unit for monitoring an evolving range of professional signals.

#### Features/Benefits:

- Wohler's renowned sound quality in 1RU form factor.
- Touch screen front panel for intuitive control.
- Built-in speakers, headphone jack, USB and Ethernet ports.
- A range of connectors, including SFP slots for future I/O.
- Store and retrieve presets via USB or remote software control.
- Software upgradeable, future-proof platform.
- API for remote control.
- Compact, space-saving unit.



iAM-AUDIO-1	8114-0200	Audio monitoring and metering with touch screen control. 1RU. Supplied with 1 $\times$ SFP-SDIB
iAM-AUDIO-1-DANTE	8114-0205	Audio monitoring and metering with touch screen control. 1RU. Supplied with 1 x OPT-DANTE
Processing Options:		• • • • • • • • • • • • • • • • • • • •
OPT-DOLBY	829077	Allows decoding and monitoring of Dolby® D, DD+, & E streams.
OPT-DANTE	829078	Enables decoding and monitoring of Dante™ Input streams.
OPT-RAVENNA	829079	Enables decoding and monitoring of Ravenna™ Input streams.
I/O Options:		
OPT-AES	829080	Enables decoding and monitoring of 4 x AES inputs. 1 AES output
OPT-MADI	829092	Enables decoding and monitoring of 1 x MADI64 input via BNC.
SFP-MMMF	829081	MADI fiber transceiver; Multimode, LC Connectors.
SFP-MSMF	829082	MADI fiber transceiver; Singlemode, LC Connectors.
SFP-2022	829088	SMTPE 2022 receiver, LC Connectors.
SFP-SDIB	829089	3G/HD/SD-SDI Active Loopback Video transceiver, HD-BNC.





TOUCHSCREEN

₩ -

The iAM Command & Control interface

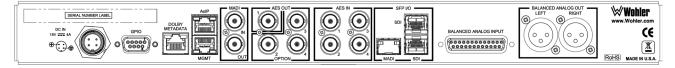




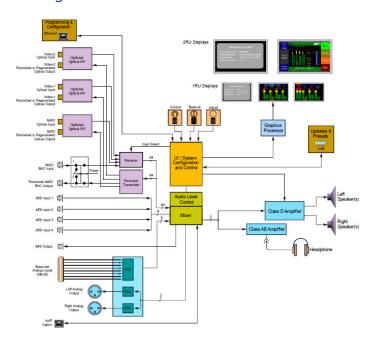
# iAM-AUDIO

### Multi-Channel Audio Monitoring & Metering

#### Rear Panel



#### Block Diagram



#### **Specifications**

Dimensions (W x H x D)  1RU in standard 19" rack: 19" x 1.75" x 7.25" (482.6 mm x 44.5 mm x 184 mm)  6.5 lbs. (2.9 kg) / 4.5 lbs. (2.0 kg)  Power Consumption/Requirements  40 W typical, 100 to 240 VAC ± 10%, 50/60 Hz  Physical Inputs/Outputs*  *some I/O requires additional software key  1 reclocked or regenerated MADI BNC with switched loop through 4 AES input 1 AES output 8 Balanced analog inputs 1 headphone (1/4" jack) Ethernet  Display Type  2.4" LCD Capacitive Touchscreen x 3  Sample Rate  Frequency Response  120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical  Distortion  4 2W 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical  Acoustic Output  Presets  8 programmable/nameable. Can be copied from unit to unit via USB or GUI software and Ethernet	•	
Power Consumption/Requirements  40 W typical, 100 to 240 VAC ± 10%, 50/60 Hz  Physical Inputs/Outputs* *some I/O requires additional software key  • 3 SFP slots • 1 reclocked or regenerated MADI BNC with switched loop through • 4 AES input • 1 AES output • 8 Balanced analog inputs • 1 headphone (1/4" jack) • Ethernet  Display Type  2.4" LCD Capacitive Touchscreen x 3  Sample Rate  Frequency Response  120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical  Distortion  4 SPL @ 2 feet  Presets  8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Dimensions (W x H x D)	1RU in standard 19" rack: 19" x 1.75" x 7.25" (482.6 mm x 44.5 mm x 184 mm)
Physical Inputs/Outputs* *some I/O requires additional software key  • 3 SFP slots • 1 reclocked or regenerated MADI BNC with switched loop through • 4 AES input • 1 AES output • 8 Balanced analog inputs • 1 headphone (1/4" jack) • Ethernet  Display Type  2.4" LCD Capacitive Touchscreen x 3  Sample Rate  Frequency Response  120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical  Distortion  < 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical  Acoustic Output  96 dB SPL @ 2 feet  Presets  8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Shipping Weight / Net Weight	6.5 lbs. (2.9 kg) / 4.5 lbs. (2.0 kg)
*some I/O requires additional software key  1 reclocked or regenerated MADI BNC with switched loop through 4 AES input 1 AES output 8 Balanced analog inputs 1 headphone (1/4" jack) Ethernet  Display Type  2.4" LCD Capacitive Touchscreen x 3  Sample Rate  Frequency Response  120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical  Distortion  < 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical  Acoustic Output  96 dB SPL @ 2 feet  Presets  8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Power Consumption/Requirements	40 W typical, 100 to 240 VAC ± 10%, 50/60 Hz
Sample Rate  48 kHz  Frequency Response  120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical  2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical  Acoustic Output  96 dB SPL @ 2 feet  Presets  8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Physical Inputs/Outputs* *some I/O requires additional software key	<ul> <li>1 reclocked or regenerated MADI BNC with switched loop through</li> <li>4 AES input</li> <li>1 AES output</li> <li>8 Balanced analog inputs</li> <li>1 headphone (1/4" jack)</li> </ul>
Frequency Response 120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical  Oistortion < 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical  Acoustic Output 96 dB SPL @ 2 feet  Presets 8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Display Type	2.4" LCD Capacitive Touchscreen x 3
Distortion < 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical  Acoustic Output 96 dB SPL @ 2 feet  Presets 8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Sample Rate	48 kHz
Acoustic Output 96 dB SPL @ 2 feet  Presets 8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Frequency Response	120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical
Presets 8 programmable/nameable. Can be copied from unit to unit via USB or GUI software	Distortion	< 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical
	Acoustic Output	96 dB SPL @ 2 feet
	Presets	' '

## iAM-AUDIO-2

### Multi-Channel Audio Monitoring & Metering



Intuitive monitoring and metering of audio from multiple sources, with browser-based user interface and touch screen controls.

MADI

DOLBY

DOLBY

0

SPEAKERS

TOUCHSCREE

AES

**(** )

AUDIO

SDI

3G/HD/SD-SDI

Α

ANALOG

EEL LEVEL METERS

†|†|

AUDIO MIXING

HEADPHONE

**∏** -⇔ i

Wohler Technologies has been in the business of in-rack monitoring for over 25 years. In fact we invented it! Now with the introduction of the iAM Series, Wohler has re-invented this critical piece of broadcast technology for the modern media enterprise.

#### Flexible. Adaptable. Future Proof.

iAM-AUDIO is designed to be easy to operate yet powerful enough to provide high quality, intuitive monitoring of multiple signal types within a compact form factor.

iAM-AUDIO is equipped with a variety of metering options and can support Analog, AES3 and MADI inputs with additional options for AoIP formats, including Dante™, Ravenna™ and AES67, 3G/HD/SD-SDI and a growing range of I/O via an SFP interface.

High quality touch screen panels allow for elegant and intuitive control, with simple to navigate menus and configuration. Physical front panel controls provide access to main and auxiliary volume controls, balance control and a front mounting USB port for simple software updates.

All iAM Series monitors are built with an on-board web server. Multiple units on the same network can be updated, monitored and controlled via a browser-based user interface that supports fast configuration with role-based authentication that protects critical configurations from unauthorized alteration.

With both front mounting speakers and subwoofers, the iAM-AUDIO provides powerful sound output and audio reproduction that adheres to Wohler's own strict specifications.

iAM-AUDIO can be software upgraded to support new and emerging technologies and is the perfect solution for any application that requires a compact unit for monitoring an evolving range of professional signals.

#### Features/Benefits:

- Wohler's renowned sound quality in 2RU form factor.
- Touch screen front panel for intuitive control.
- Built-in speakers, headphone jack, USB and Ethernet ports.
- A range of connectors, including SFP slots for future I/O.
- Store and retrieve presets via USB or remote software control.
- Software upgradeable, future-proof platform.
- API for remote control.
- Compact, space-saving unit.



The iAM Command & Control interface

#### Part Numbers:

SFP-SDIB

Base Units:		
iAM-AUDIO-2	8114-0250	Audio monitoring and metering with touch screen control. 2RU. Supplied with 1 x SFP-SDIB
iAM-AUDIO-2-DANTE	8114-0255	Audio monitoring and metering with touch screen control. 2RU. Supplied with 1 x OPT-DANTE
Processing Options:		
OPT-DOLBY	829077	Allows decoding and monitoring of Dolby® D, DD+, & E streams.
OPT-DANTE	829078	Enables decoding and monitoring of Dante™ Input streams.
OPT-RAVENNA	829079	Enables decoding and monitoring of Ravenna™ Input streams.
I/O Options:		
OPT-AES	829080	Enables decoding and monitoring of 4 x AES inputs. 1 AES output.
OPT-MADI	829092	Enables decoding and monitoring of 1 x MADI64 input via BNC.
SFP-MMMF	829081	MADI fiber transceiver; Multimode, LC Connectors.
SFP-MSMF	829082	MADI fiber transceiver; Singlemode, LC Connectors.
SFP-2022	829088	SMTPE 2022 receiver, LC Connectors.

3G/HD/SD-SDI Active Loopback Video transceiver, HD-BNC.

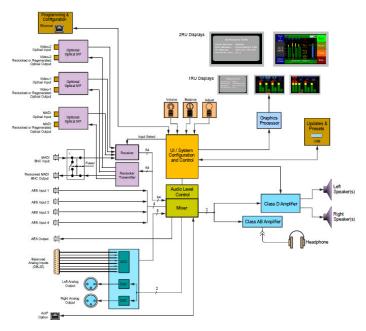
# iAM-AUDIO-2

### Multi-Channel Audio Monitoring & Metering

#### Rear Panel



#### Block Diagram



### **Specifications**

Dimensions (W x H x D)	1RU in standard 19" rack: 19" x 3.5" x 7.25" (482.6 mm x 89 mm x 184 mm)
Shipping Weight / Net Weight	8.5 lbs. (3.9 kg) / 6.5 lbs. (2.9 kg)
Power Consumption/Requirements	40 W typical, 100 to 240 VAC ± 10%, 50/60 Hz
Physical Inputs/Outputs* *some I/O requires additional software key	<ul> <li>3 SFP slots</li> <li>1 reclocked or regenerated MADI BNC with switched loop through</li> <li>4 AES input</li> <li>1 AES output</li> <li>8 Balanced analog inputs</li> <li>1 headphone (1/4" jack)</li> <li>Ethernet</li> </ul>
Display Type	4.3" LCD Capacitive Touchscreen x 2
Sample Rate	48 kHz
Frequency Response	120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical
Distortion	< 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical
Acoustic Output	96 dB SPL @ 2 feet
Presets	8 programmable/nameable. Can be copied from unit to unit via USB or GUI software and Ethernet

# iAM-VIDEO-2

### Multi-Channel Audio and Video Monitoring & Metering



Intuitive monitoring and metering of audio and video from SDI and/or MPEG2TS, with a browser-based user interface and touch screen controls.





























The iAM Command & Control UI allows remote interfacing to all iAM units via a simple web browser.

Wohler Technologies has been in the business of in-rack monitoring for over 25 years. In fact, we invented it! Now with the introduction of the iAM Series, Wohler has re-invented this critical piece of broadcast technology for the modern media enterprise.

#### Flexible. Adaptable. Future Proof.

iAM-VIDEO is designed to be easy to operate yet powerful enough to provide high quality, intuitive monitoring and metering of MPEG2 / MPEG4(h.264) video and the option to include 3G/ HD/SD-SDI.

High-quality touchscreen panels allow for elegant and intuitive control, with simple to navigate menus and configuration. Physical front panel controls provide access to main and auxiliary volume controls, balance control and a front mounting USB port for simple software updates.

All iAM Series monitors are built with an on-board web server. Multiple units on the same network can be updated, monitored and controlled via a browser-based user interface that supports fast configuration with role-based authentication that protects critical configurations from unauthorized alteration.

With both front mounting speakers and sub-woofers, the iAM-VIDEO provides powerful sound output and audio reproduction that adheres to Wohler's own strict specifications.

iAM-VIDEO can be software upgraded to support new and emerging technologies and is the perfect solution for any application that requires a compact unit for monitoring an evolving range of professional signals.

#### Features/Benefits:

- Touch screen front panel for intuitive control.
- Built-in speakers, headphone jack, USB and Ethernet ports.
- Store and retrieve presets via USB or remote software control.
- Software upgradeable, future-proof platform.
- API for remote control.

#### Part Numbers:

Base Unit:

iAM-VIDEO-2 8114-0350 Audio/Video monitoring and metering. SFP-SDIB included. 2RU. iAM-VIDEO-2-MPEG 8114-0355 Audio/Video monitoring and metering. OPT-MPEG included. 2RU.

I/O Options:

SFP-SDIB 829089 OPT-MPEG 829094 3G/HD/SD-SDI Active Loopback Video transceiver, HD-BNC. Enables decoding and monitoring of MPEG2 TS o/ASI and o/IP.

- Single MPEG2 TS(MPEG2/H.264) of max.15Mb/s chosen from an MPTS of max.200Mb/s. Video Codecs: MPEG4 (I.264) up to HD: HP@L4.3, 4:2:0.8-bit; MPEG-2 up to HD: MP@HL, 4:2:0.8-bit
Video Resolutions: 1080P / 720P : 60 / 59.94 / 50 / 29.97 / 30 / 25 / 24 / 23.96 fps; 1080i : 30 / 29.97 / 25 fps;
SD : NTSC, PAL, VGA, QVGA, CIF, SIF, QCIF, QSIF

Audio Codes: Dolby E / D / DD+ (E-AC3), MPEG-1 Layer 1 / Layer 2, AAC-LC (\*requires OPT-DOLBY)
Audio Resolutions: Up to 48kHz audio
Network protocols: MPEG-2 TS over UDP, SSM IGMPv3



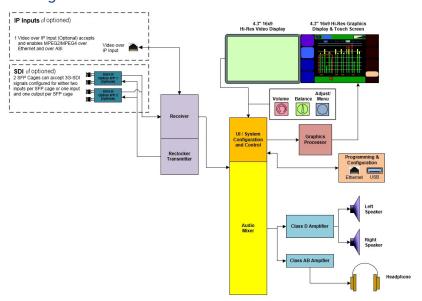
# iAM-VIDEO-2

### Multi-Channel Audio and Video Monitoring & Metering

#### Rear Panel



#### Block Diagram



### **Specifications**

•	
Dimensions (W x H x D)	1RU in standard 19" rack: 19" x 3.5" x 7.25" (482.6 mm x 89 mm x 184 mm)
Shipping Weight / Net Weight	6.5 lbs. (2.9 kg) / 4.5 lbs. (2.0 kg)
Power Consumption/Requirements	40 W typical, 100 to 240 VAC ± 10%, 50/60 Hz
Inputs/Outputs	<ul> <li>2 SFP slots</li> <li>1 AES output</li> <li>1 Headphone (1/4" jack)</li> <li>2 x Ethernet (1 x Management; 1 x Video oIP)</li> </ul>
Display Type	4.3" LCD Capacitive Touchscreen x 2
Sample Rate	48 kHz
Frequency Response	120 Hz to 18 kHz (± 5 dB) acoustic, 40 Hz to 20 kHz (± 1dB) electrical
Distortion	< 2% 300 Hz to 10 kHz acoustic, <0.01% THD+N electrical
Acoustic Output	96 dB SPL @ 2 feet
Presets	Multiple programmable/nameable. Can be copied from unit to unit via USB or GUI software and Ethernet



### **US Headquarters**

Phone: +1 510 870 0810 Email: sales@wohler.com

DISCLAIMER: Every attempt was made to ensure that the statements and specifications mentioned in this catalog are true and correct. Despite all of the care applied, minor errors may still exist. Therefore, Wohler Technologies, Inc. reserves the right to change or amend the product specifications listed herein at any time.

