

# SONODYNE®

SONODYNE

# LIVE

SOLUTIONS Nov 2019

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mixers • signal processors • power amplifiers • microphones • loudspeakers



“*Sonodyne conveys sound  
in its purest form*”

~ Ustad Zakir Hussain  
Brand ambassador



At Sonodyne, sound matters. For the last five decades, we have focussed on R & D, and manufacturing of residential and professional audio products. With two design centers, and three manufacturing locations, in Mumbai and Kolkata, Sonodyne, today, is a sound engineering service provider and a recognized brand in professional audio, globally.

Our core development efforts have resulted in innovations in waveguide, transducer, enclosure and electronics designs. We understand the rigours of live sound and we have invested over a year in getting our designs field and laboratory tested in India and abroad. With the products meeting high performance standards and safety parameters, we are confident that we can meet the sound needs of contractors, sound engineers, and musicians.

In the following pages, we present a range of unique solutions for Live Sound. They meet Sonodyne's core beliefs of high performance and value. We believe that this range presents exceptional performance standards across a range of live sound applications.



# SMALL FORMAT ANALOGUE MIXERS



## SMX SERIES

The SMX Series of mixers are compact live sound mixing consoles. Focus is on providing the engineer with a variety of features like additional mic inputs, multiple aux, global and local EQs, and subgroups. Input connectivity on BT and USB are available with record output to onboard USB. In a slim, compact form-factor, the SMX is an excellent console for small events where sound quality is paramount.

- High-Performance small format analogue mixers with onboard effects
- Mic preamps with low noise performance
- EQ with sweep-able mid-bands per channel
- Tap Delay on select models
- BT to connect tab or phone
- USB rec and playback
- 32bit 42kHz Effects Engine featuring Reverb, Delay, Chorus and Modulation
- Trim Limiters on input channels
- Combo inputs for guitars, basses and other instruments
- Hi-Pass Filters (low-cut) and 48V Phantom Power on all mic channels (12 and 16 channel)
- Smooth premium-quality faders
- Robust polymer lightweight construction for tour-grade build quality and reliability
- Internal universal power supply
- DC 5V lamp connector
- +48V phantom power
- XLR balanced outputs

	SMX 1008	SMX 1112	SMX 1116	SMX 1124
INPUT: MONO (MIC / LINE)	6	8	12	20
STEREO	1	2	2	2
OUTPUT: MAIN	2	2	2	2
AUX	-	4	4	4
GROUP	-	2	2	2
GRAPHIC EQ	7 band stereo	9 band stereo, switchable	9 band stereo, switchable	9 band stereo, switchable
EQ HIGH		Gain: +15dB/ -15dB, Frequency: 12kHz shelving		
EQ MID	Gain: +15dB/-15dB, Frequency: 2.5kHz peaking.	Gain: +15dB/ -15dB, Frequency: Mono 100Hz~ 3kHz peaking. Stereo 3kHz peaking	Gain: +15dB/ -15dB, Frequency: Mono 100Hz~ 3kHz peaking. Stereo 3kHz peaking	Gain: +15dB/ -15dB, Frequency: Mono 100Hz~ 3kHz peaking. Stereo 3kHz peaking
EQ LOW		Gain: +15dB/ -15dB, Frequency: 80Hz shelving		
LOW CUT	NA	75Hz 18dB/octave	75Hz 18dB/octave	75Hz 18dB/octave
EFFECTS	99 effects, DSP based	99 effects, DSP based	99 effects, DSP based	99 effects, DSP based
TAP DELAY	no	yes	yes	yes
BT PLAYBACK	yes	yes	yes	yes
USB PLAYBACK	yes	yes	yes	yes
RECORD TO USB	yes	yes	yes	yes
FADERS	60mm	100mm	100mm	100mm
PHANTOM POWER	Global	Per mic channel/ global	Per mic channel/ global	Per mic channel/ global
OTHER FEATURES PER CHANNEL	Mute switch for each channel	Mute, solo, low-cut and bus- assign switches (Main, Sub)	Mute, solo, low-cut and bus- assign switches (Main, Sub)	Mute, solo, low-cut and bus- assign switches (Main, Sub)
MIC EIN, 50 $\Omega$ SOURCE RES		-133dB		
FREQ. RESPONSE + 0, -1dB		10Hz ~ 90kHz		
THD		0.004% A- weighted		
SIGNAL TO NOISE RATIO		110dB, A- weighted		
MAX OUTPUT LEVEL		+22dBu		
POWER REQUIREMENT		230V AC 50Hz		
POWER CONSUMPTION	30W	50W	55W	60W
DIMENSION H X W X D MM	120 x 360 x 360	150 x 510 x 475	150 x 620 x 475	150 x 840 x 475



# POWER AMPLIFIERS

## SLA SERIES

The SLA are 2RU power amplifiers and include 9 models, both dual and 4 channel. The SLA Series provides a broad choice of power output extending to 2Ω operation so you can select a model that will ideally match the power requirements for your application. For even further flexibility all models can operate in 3 modes: dual channel mode; parallel (mono) mode; and bridge mode. The SLA Series power amplifiers employ a large number of matched complementary devices in parallel having linear transfer characteristic for low distortion and high SOA guaranteeing safe operation at elevated power levels.



- 2Ω operation
- High SNR
- Heavy-duty power supply for high dynamic power
- Variable-speed twin fan back-to-front cooling
- LED indicators for metering, status, and operating mode
- Soft start
- Low THD, IMD
- Short-circuit, thermal, output DC, RF protection
- Neutrik Speakon® and binding post output connectors

	SLA2003	SLA2004	SLA2006	SLA2008	SLA2010	SLA2013	SLA2015	SLA2104	SLA2106
<b>CHANNELS</b>	2	2	2	2	2	2	2	4	4
	Output Power (RMS), all channels driven								
<b>8Ω</b>	300W	400W	600W	800W	1000W	1300W	1500W	400W	600W
<b>4Ω</b>	450W	600W	900W	1200W	1500W	1950W	2250W	600W	900W
<b>2Ω</b>	510W	680W	1020W	1360W	1700W	2300W	2550W	NA	NA
<b>8Ω BRIDGED</b>	900W	1200W	1800W	2400W	3000W	3900W	4500W	1200W	1800W
<b>4Ω BRIDGED</b>	1100W	1480W	2220W	3000W	3700W	4810W	5550W	NA	NA
<b>CLASS</b>	AB	AB	H	H	H	H	H	AB	H
<b>THD @ RATED PW</b>	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%
<b>DAMPING FACTOR</b>	>300	>300	>300	>300	>300	>300	>300	>300	>308
<b>SIGNAL TO NOISE RATIO</b>	100dB	101dB	103dB	104dB	105dB	106dB	107dB	101dB	103dB
<b>FREQUENCY RESPONSE</b>	20Hz–20kHz, ±0.5dB								
<b>INPUT CONNECTORS</b>	XLR with link								
<b>OUTPUT CH CONNECTORS</b>	Twist-lock speaker socket, binding posts								
<b>AMPLIFIER LOAD PROTECTION</b>	Short circuit, output DC, thermal, RF, internal fault, input overload, HF overload, mismatch load, mains inrush current.								
<b>FRONT PANEL CONTROL</b>	Clip/protect indicator. 6 steps volume level indicator. 21 detent volume level control								
<b>REAR PANEL CONTROL</b>	DIP switch for stereo, parallel, bridge. Dip switch for 2 sensitivity settings.								
<b>DIMENSIONS (WXDXH)MM</b>	483 x 457 x 88								
<b>WEIGHT</b>	17kg	19kg	21kg	23kg	25kg	27kgs	28kg	23kg	26kg
<b>AGENCY APPROVALS</b>	CE, BIS IS 616-2010								

# EQUALIZERS/ SPEECH MICROPHONES



## SSP 2015

The SSP 2015 is a 1RU 31-band 2/3rd octave dual channel constant Q Stereo Graphic Equalizer. The SSP 2015 is designed to cater to live or recording environments and audio projects where specific frequency gain regulation is necessary globally.

- Two 15-band, 2/3-octave Constant Q freq. bands.
- Switchable boost/cut ranges of  $\pm 6\text{dB}$  or  $\pm 12\text{dB}$
- 12dB per octave 50Hz low-cut filter
- Front-panel bypass switch
- $\pm 12\text{dB}$  input gain range
- 4-segment LED ladders for monitoring output levels
- XLR and TRS Inputs and Outputs
- Frequency Response of  $<10\text{Hz} \sim >50\text{kHz}$
- Dynamic range of greater than 112dB

## SSP 2025

The SSP 2025 is a 3RU 31-band 1/3rd octave dual channel constant Q Stereo Graphic Equalizer with Noise Reduction. The SSP 2025 is designed to cater to live or recording environments where specific frequency gain regulation is necessary globally.

- Two 31-band, 1/3-octave Constant Q freq bands
- Noise Reduction capable of restoring up to 20dB S/N ratio.
- Limiter (0dBu to +24dBu)
- Switchable  $\pm 6\text{dB}$  and  $\pm 15\text{dB}$  gain
- 18dB/octave 40Hz Bessel low-cut filter
- Ground lift
- -12dB  $\sim$  +12dB input gain range
- XLR, TRS and Barrier strip connectors
- Power-off hard-wire relay bypass with 2sec power up delay

## SSP 3020

The SSP 3020 is a 1RU Stereo 2 way/ 3 way or Mono 4 way crossover featuring extremely low noise and rugged built for reliability. The SSP 3020 is designed with precision 24dB per octave filters.

- Stereo 2-way/3-way or 4-way mono crossover.
- Back panel switches for selecting the operating mode of the crossover.
- Low frequency summed output designed specifically for mono subwoofer applications.
- Phase invert switches on all outputs.
- Back panel switches indicating the selected range of crossover frequencies. Both of these features have LED indicators on the front panel so you can see at a glance which mode the unit is in.
- Individual level controls on every output.



## SVM SERIES speech microphones

- UHF wireless microphone with dual channels
- 2 versions: DH1: dual handheld or LH1 (1 handheld, 1 lapel)
- Frequency 865~867MHz

- Plastic handheld microphone with high quality capsule
- Power supply: 12V/1A
- Contents include 1 connecting cable and 4 x 1.5VAA batteries

### RECEIVER

CARRIER WAVE FREQ. RANGE	865 ~ 867MHz
CARRIER WAVE STABILITY	10ppm
SENSITIVITY	-105dB @ sinad=12dB
SIGNAL TO NOISE RATIO	> 105dB
T.H.D.	<0.5% @ 1kHz
IMAGE REJECTION	85dB typical
SPURIOUS REJECTION	75dB typical
FREQUENCY RESPONSE	40Hz ~ 18kHz
WORKING DISTANCE	> 200 ft

### AF OUTPUT IMPEDANCE

MAX OUTPUT LEVEL	Balanced : 0~400mV, Unbalanced : 0~200mV
DISPLAY	LCD
POWER SUPPLY	External DC Power supply, 1A, 12V DC
OUTPUT CONNECTOR	XLR balanced socket, unbalanced TRS 6.35mm socket

### TRANSMITTER

TRANSMITTER POWER	30mW
SPURIOUS EMISSION	<40dB with carrier
DISPLAY	LCD
BATTERY	1.5V x 2 pcs
BATTERY LIFE	6-8 hours



# PORTABLE LOUDSPEAKERS



## SPA SERIES

The SPA is our newest range of PA speakers. It comprises 8 unique models that are ideal not only for installation but also for live performances. All models are two way designs employing high performance transducers. The ABS moulded enclosure is rigid, portable, and allows for ease of installation. The sound quality is excellent allowing the speakers to be also used as stage monitors. Well priced, reliable, and great sounding, the SPA is a great new solution for professional applications where sound quality matters.

- Active and Passive versions
- Rugged portable cabinets
- Pole mount
- High efficiency wide band D Class amplifiers, bi-amplified
- Wall mount
- 2 inputs: mic and line
- Custom transducers
- Floor monitor
- 2 band EQ

	SPA 108	SPA 110	SPA 112	SPA 115
<b>TRANSDUCERS</b>	LF: 8" with 1.5" VC, HF: 1" HLCD with 1.1" VC	LF: 10" with 2" VC, HF: 1" HLCD with 1.1" VC	LF: 12" with 2.5" VC, HF: 1" HLCD with 1.1" VC	LF: 15" with 3" VC, HF: 1" HLCD with 1.75" VC
<b>CROSSOVER FREQUENCY</b>	2.2kHz	2kHz	1.8kHz	1.8kHz
<b>FREQUENCY RANGE (-10dB)</b>	65Hz ~ 19kHz	60Hz ~ 19kHz	60Hz ~ 19 kHz	50Hz ~ 19kHz
<b>FREQUENCY RESPONSE (-3dB)</b>	75Hz ~ 17kHz	65Hz ~ 17kHz	65Hz ~ 17 kHz	60Hz ~ 17kHz
<b>DIRECTIVITY (HF H x V)</b>	90° x 50°	90° x 50°	90° x 50°	90° x 50°
<b>SENSITIVITY 1W/1M</b>	90dB	92dB	96dB	98dB
<b>POWER HANDLING CONTINUOUS AES</b>	100W	150W	250W	300W
<b>POWER HANDLING PROGRAM</b>	200W	300W	500W	600W
<b>CABINET</b>	Plastic	Plastic	Plastic	Plastic
<b>MOUNTING</b>	Wall bracket, pole mount, floor monitor	Wall bracket, pole mount, floor monitor	Pole mount, floor monitor	Pole mount, floor monitor
<b>DIMENSIONS (H x W x D) mm</b>	400 x 260 x 227	510 x 330 x 220	580 x 390 x 320	685 x 470 x 385
<b>NET WEIGHT</b>	7.6kg	10.7kg	15.6kg	20.0kg

	SPA 108P	SPA 110P	SPA 112P	SPA 115P
TRANSDUCERS	LF: 8" with 1.5" VC, HF: 1" HLCD with 1.1" VC	LF: 10" with 2" VC, HF: 1" HLCD with 1.1" VC	LF: 12" with 2.5" VC, HF: 1" HLCD with 1.1" VC	LF: 15" with 3" VC, HF: 1" HLCD with 1.75" VC
CROSSOVER FREQUENCY	2.2kHz	2kHz	1.8kHz	1.8kHz
FREQUENCY RANGE (-10dB)	60Hz ~ 19kHz	55Hz ~ 19kHz	55Hz ~ 19kHz	47Hz ~ 19kHz
FREQUENCY RESPONSE (-3dB)	70Hz - 17kHz	60Hz ~ 17kHz	60Hz ~ 17kHz	55Hz ~ 17kHz
DIRECTIVITY (HF H x V)	90° x 50°	90° x 50°	90° x 50°	90° x 50°
MAX SPL	112dB	118dB	124dB	128dB
AMPLIFIER POWER RMS	100W (LF 70W, HF 30W)	150W (LF: 100W, HF: 50W)	250W (LF: 200W, HF: 50W)	350W (275W + 75W)
AMPLIFIER POWER PROGRAM	200W	300W	500W	700W
INPUTS	Balanced mic: 1; Balanced line: 1; Balanced Mix Out: 1		Balanced mic: 1; Balanced line: 1; Balanced Mix Out: 1	
CONTROLS	Level controls: Line, Mic, Master, Bass, Treble		Level controls: Line, Mic, Master, Bass, Treble	
USB SD CARD	Support WMA, WAV, mp3 files; Controls: Play / Pause, Stop, Repeat, Next, Previous			
BT	Version 4.2	Version 4.2	Version 4.2	Version 4.2
MOUNTING	Wall bracket, pole mount, floor monitor		Pole mount, floor monitor	
CABINET	Plastic	Plastic	Plastic	Plastic
DIMENSIONS (H x W x D) mm	400 x 260 x 227	510 x 330 x 220	580 x 390 x 320	685 x 470 x 385
NET WEIGHT	9.3kg	12.0kg	16.9kg	21.3kg

# PORTABLE LOUDSPEAKERS



## SLX SERIES

The SLX Series is a range of engineered professional loudspeakers for high fidelity and SPL in both indoor and outdoor applications. The range comprises full range speakers and subwoofers. Select models can be used as wedges for stage monitoring and flown for installation applications. The transducers are customised to meet the frequency, SPL, and high power handling needs. The HF waveguides have been designed to ensure a smooth, predictable coverage. The enclosure is made from plywood and finished in multiple coats of durable stipple paint. The powder coated perforated grill is mechanically locked into the cabinet for not only optimal transducer protection but also to minimise any vibration. Roadworthy and great sounding the SLX range meets the sound needs for live and recorded performances.

- Portable and fixed install PA speakers
- Constant directivity HF with custom waveguide
- High excursion LF transducer
- High power handling and SPL
- Rigid painted cabinet with heavy internal bracing
- Flying points

	SLX 1008	SLX 1010	SLX 1120	SLX 1150	SLX 1152	SLX 2180	SLX 2182
<b>DESCRIPTION</b>	Passive 2 way, 8", bass-reflex	Passive 2 way, 10", bass-reflex	Passive 2 way, 12", bass-reflex	Passive 2 way, 15", bass-reflex	Passive 2 way, dual 15", bass-reflex	Passive, 18" Subwoofer	Passive, dual 18" Subwoofer
<b>LF TRANSDUCER</b>							
SIZE	8"	10"	12"	15"	2 x 15"	18"	2 x 18"
VOICE COIL	1.5"	2"	2.5"	3"	3"	5"	5"
<b>HF TRANSDUCER</b>							
SIZE	1"	1"	1"	1"	2"	NA	NA
VOICE COIL	1.1"	1.1"	1.75"	2"	3"	NA	NA
<b>NOMINAL IMPEDANCE</b>	8Ω	8Ω	8Ω	8Ω	4Ω	8Ω	4Ω
<b>FREQ. RANGE (-10dB)</b>	60Hz ~ 22kHz	50Hz ~ 22kHz	45Hz ~ 22kHz	40Hz ~ 22kHz	35Hz ~ 19kHz	30Hz ~ 150Hz	30Hz ~ Crossover freq
<b>FREQ. RESPONSE(-3dB)</b>	70Hz ~ 20kHz	60Hz ~ 20kHz	55Hz ~ 20kHz	50Hz ~ 20kHz	47Hz ~ 17kHz	40Hz ~ 170Hz	40Hz ~ Crossover freq
<b>CROSSOVER FREQ</b>	2.9kHz	1.2kHz	3.2kHz	2.5kHz	1.5kHz	Recommended: 80 ~ 120Hz, 18 ~ 24dB/ oct low-pass	
<b>RECOMMENDED SUBSONIC FILTER</b>	60Hz, 24dB/octave	55Hz, 24dB/octave	50Hz, 24dB/octave	45Hz, 24dB/octave	40Hz, 24dB/octave	35Hz, 24dB/octave	35Hz, 24dB/octave
<b>HF DIRECTIVITY</b>	90° x 50°	90° x 50°	90° x 50°	90° x 50°	90° x 50°	NA	NA
<b>SENSITIVITY (1W 1M)</b>	92dB	94dB	95dB	96dB	99dB	97dB	100dB
<b>MAX SPL</b>							
CONTINUOUS	112dB	117dB	121dB	124dB	130dB	128dB	134dB
PEAK	118dB	123dB	127dB	130dB	136dB	134dB	140dB
<b>POWER HANDING</b>							
CONTINUOUS	100W	200W	400W	600W	1200W	1300W	2600W
PROGRAM	200W	400W	800W	1200W	2400W	2600W	5200W
<b>CONNECTORS</b>	1 x Twist-lock connector (input) 1 x Twist-lock connector (link)						
<b>MOUNTING</b>	35.5mm pole, 18 x M10 suspension points	35.5mm pole, 18 x M10 suspension points	35.5mm pole, 18 x M10 suspension points	35.5mm pole, 17 x M10 suspension points	12 x M10 suspension points	NA	NA
<b>FINISH</b>	Durable Paint						
<b>ENCLOSURE SHAPE</b>	Wedge, with one 45° face	Wedge, with one 45° face	Wedge, with one 45° face	Wedge, with one 45° face	Trapezoidal	Rectangular	Rectangular
<b>ENCLOSURE MATERIAL</b>	15mm Plywood	15mm Plywood	15, 18mm Plywood	15, 18mm Plywood	18mm Plywood	18mm Plywood	18mm Plywood
<b>GRILLE</b>	Powder coated 18 gauge perforated steel						
<b>DIMENSIONS HxWxD mm</b>	445 x 270 x 290	517 x 320 x 350	610 x 360 x 380	685 x 435 x 458	1192 x 546 x 517	700 x 565 x 690	574 x 1205 x 681
<b>WEIGHT</b>	11.7Kg	14.5Kg	17.3Kg	23Kg	56Kg	51Kg	92Kg





# SONODYNE®

Products of the **MUKHERJEE INNOVATION CENTRE**

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