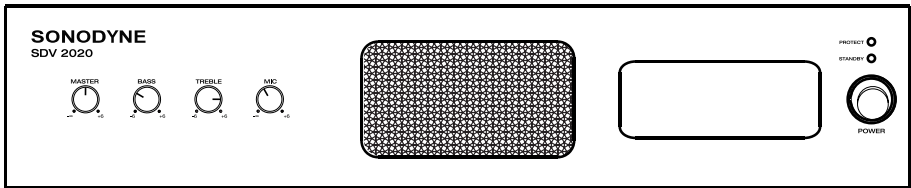


# SONODYNE®

# SDV SERIES

stereo integrated amplifier | owners manual



**MADE IN INDIA**  
since 1970

# IMPORTANT SAFETY INSTRUCTIONS

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Thank you for choosing SDV 2010 /SDV 2020 amplifier. Please read this manual carefully and it contains important and helpful information to get the most out of your new product.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing)

## IMPORTANT SAFETY INSTRUCTIONS

1. Do not stack objects on the amplifier
2. Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers containing liquids which might spill into any openings.
3. Do not install near any heat sources such as radiators, stoves, or other apparatus (including amplifiers) that produce heat.
4. Do not switch power on or off rapidly
5. Do not block the front and back of the amplifier. Ensure that there is enough space around the amplifier for ventilation. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire.
6. Use a fixed power outlet with correct capacity to supply power
7. Turn down the output levels on the front panel before switch-on.
8. When operating at full power, the internal fan speed will increase and a slight noise will be audible, which is normal.
9. If the amplifier functions abnormally, turn it off, unplug the power cord and contact your dealer
10. Do not defeat the safety purpose of the polarized or grounding-type plug. A grounding type plug has two pins and a third grounding pin. The grounding pin is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the outlet.
11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
14. When cleaning the case, first turn off the power plug. Wipe it with a dry cloth, and do not scrub with any corrosive solvent.
15. This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way
16. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## BEFORE YOU GET STARTED

Your amplifier was carefully packed in the factory to guarantee safe transport. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit. Please store the carton and packing accessories in a safe place if you have to transport the unit in future.

## INSIDE THE CARTON

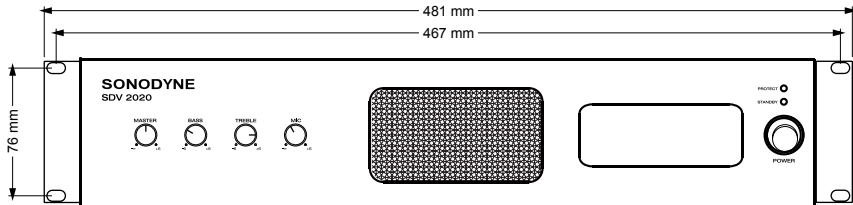
- 1 x SDV 2010/ SDV 2020 amplifier
- 1 x mains cable
- 1 x instruction manual

## FEATURES

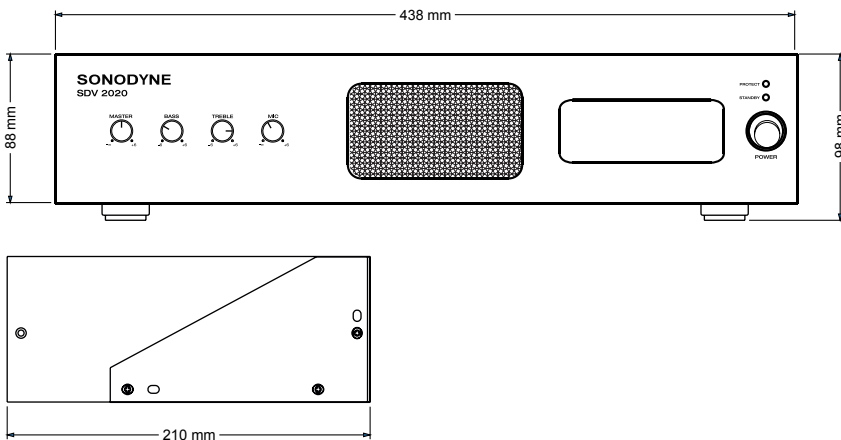
1. Professional 2 channel amplifier for installation with host of features and complete internal protection.
2. 2 sets of unbalanced and balanced line level inputs with link for balanced inputs. Mic input with level control.
3. 2-way tone control.
4. Built-in MP3 player with display accepts both USB flash drive and SD card for music source.
5. Wireless (BT) connectivity
6. Class D design for low power consumption and cool operation.
7. Built-in limiter: There is a built-in limiter for each channel which works by sensing the output and automatically limits the input signal in case of excessive clipping.
8. Euroblock type connectors for input, for easy connection during installation. Barrier-strip type speaker connectors for fool-proof and firm speaker connection.
9. Exhaustive protection: The power amplifier provides many different types of protection including DC protection, internal fault protection, input overload protection, RF interference filter, output short circuit protection, overheat protection and mains overvoltage protection.
10. Cooling: Variable speed rear-mounted fan cools the amplifier during operation. The higher power model SDV 2020 has a front-mounted fan as well which works with the rear mounted fan in a push-pull arrangement. Easy to remove dust filter on the front reduces ingress of dust and allows for periodic cleaning.
11. IEC type fused mains inlet with spare fuse inside.

# MOUNTING & INSTALLATION

1. SURFACE MOUNTING - The amplifier is equipped with 4 rubber legs which gives it a good grip on the mounting surface and also places it a certain height from the mounting surface. You can place the amplifier on any flat surface. The dimensions are shown below in the sketch



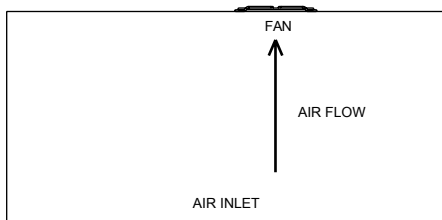
2. RACK MOUNTING - You can also mount the amplifier in a standard rack with the optional rack-ears as shown below. To attach rack ears, open screws as shown in sketch, fit the rack ears and refasten the screws. When rack-mounting, you may need to remove the rubber legs. Remove the 4 mounting screws holding the 4 legs, on the bottom. Dimensions are shown below.



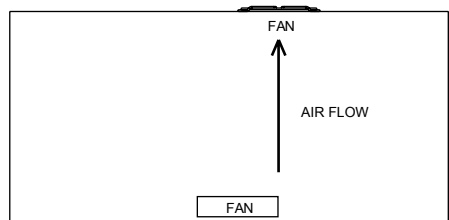
# MOUNTING & INSTALLATION

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3. VENTILATION REQUIREMENTS - The amplifier employs forced-air cooling. For the SDV 2010, a rear-mounted fan draws cool air from an opening in the front covered with a dust-cover and pushes out warm air from the rear. For the SDV 2020, the front opening is replaced with an additional fan which works with the rear fan in a push-pull arrangement, for higher rate of cooling. The front and rear must not be blocked in any way, otherwise the amplifier will shut down due to over-temperature protection. There should be also enough space around the unit for cooling purposes. If you are mounting the amplifier on a shelf, ensure there is at least 6 inch free space at the rear.



SDV 2010

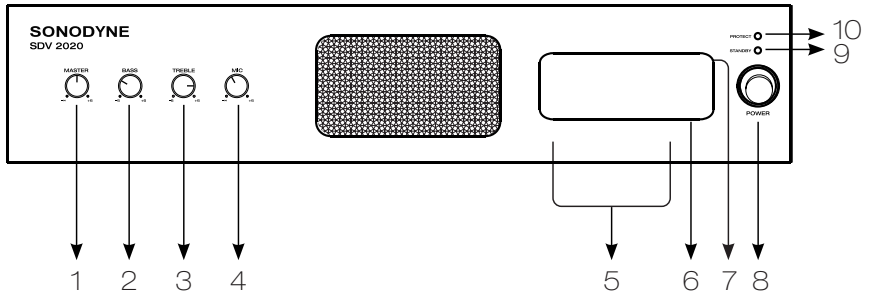


SDV 2020

# CONTROLS & SWITCHES

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## FRONT PANEL



1. **MASTER LEVEL CONTROL** - This control allows you to change the master level. At the extreme anti-clockwise position, the output is totally muted. At the maximum position the gain is increased by 6dB.
2. **BASS CONTROL**- This is a bass control for mic and line input. The bass control allows you to boost or cut the low frequencies. The control allows a maximum variation of +6dB and -6dB at the two extremes. If you do not wish to use this control, keep it at its center position.
3. **TREBLE CONTROL** - This is a treble control for mic and line input. The treble control allows you to boost or cut the high frequencies. The control allows a maximum variation of +6dB and -6dB at the two extremes. If you do not wish to use this control, keep it at its center position.
4. **MIC LEVEL CONTROL** - This control allows you to change the level of the mic input. At the extreme anti-clockwise position, the mic input is totally muted.

# CONTROLS & SWITCHES

## FRONT PANEL

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5. **USB /SD card Player - Controls (From left to right)**

**MODE:** This is a mode selection button that allows you to switch the input between USB/SD, Bluetooth and FM radio inputs.

**PLAY/PAUSE:** This button allows you to play/pause a track. It doubles as a “scan” button while using the FM radio mode, which scans for available radio stations.

**STOP:** This button allows you to stop playback while in USB/SD or BT mode.

**SELECT:** This button allows you to play tracks in order or on random while in USB/SD mode.

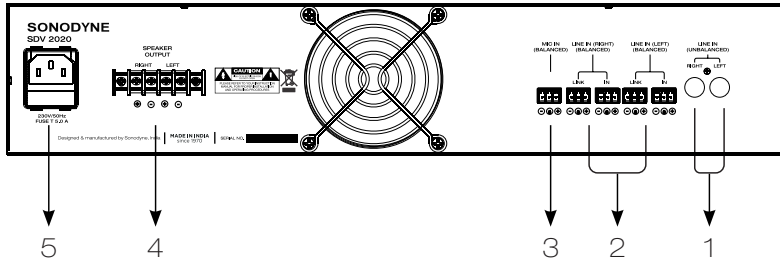
**SKIP PREVIOUS:** This button allows you to play the previous track/radio station.

**SKIP NEXT:** This button allows you to play the next track/radio station.
6. **USB INPUT -** This is a USB input for playing audio tracks recorded on external USB devices. Plugging in a USB device automatically switches the input mode to USB/SD input. Both Mp3 and WAV file formats are supported.
7. **SD CARD -** This is a SD card input for connecting external SD cards. Plugging in a SD card automatically switches the input mode to USB/SD input.
8. **POWER SWITCH -** This is a rocker type power switch which turns on power to the system. The ON position is indicated with a mark on the switch.
9. **STANDBY INDICATOR:** The amplifier has an auto power-on feature whereby it remains in standby or very low power consumption state until it detects signal from any of the inputs. Under this condition, the standby LED glows red. When signal is applied to any of the input, it immediately switches on and the LED colour changes to green. Once signal is removed, it will stay on for about 5 minutes before reverting to standby mode.
10. **PROTECT INDICATOR:** The amplifier has a protection feature which automatically shuts off the power when the mains voltage crosses a safe upper limit. In such case, this LED will glow. Normal operation will resume when the over-voltage condition is removed.

# CONTROLS & SWITCHES

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## REAR PANEL



1. **LINE IN UNBALANCED INPUT** - This consists of a pair of stereo RCA sockets. Connect the unbalanced output of your source like a CD player to this socket, with RCA to RCA cables.
2. **LINE IN BALANCED INPUT** - This consists of 1 pair of Balanced Line Inputs, via Euroblock type connector. Each pair consists of an input terminal with link or loop-through, to daisy-chain the input to a second amplifier. The pin connections for the balanced input is printed on the rear panel. Connect the balanced output of your source such as a console, to these inputs, using screened cables.
3. **MIC IN BALANCED INPUT** - Connect a dynamic microphone or a condenser microphone with its own power source, having balanced output, to this socket using screened cable. The pin connections for the balanced mic input is printed on the rear panel. Note that the Mic in is a priority input, meaning that if you connect microphone to the Mic input, it will override other inputs by muting them.
4. **SPEAKER OUTPUT** - This consists of a 4-pole barrier-strip type speaker connector, 2 poles for each channel. Connect the left and right speakers to this terminal with speaker cables, taking care to maintain correct polarity. Both 4 Ohm and 8 Ohm speakers can be connected.
5. **IEC TYPE AC SOCKET** -This is a fused IEC type AC socket. Connect this socket with the cable supplied, to a grounded AC outlet providing 230V, 50Hz power. Make this connection last, after you have finished making input and output connections. Please ensure that the AC outlet is grounded, which is in the interests of your own safety. There is a spare fuse included inside the socket, should you need to replace the fuse in future. Always replace fuse with the correct type. The fuse for this amplifier is a 20mm time delay glass-cartridge type fuse of 2.5A 230V current rating for SDV 2010 and 5A 230V current rating for SDV 2020

- i. Connect your source equipment to unbalanced or balanced inputs, as the case may be, with correct cables. The cable end which connects to the balanced inputs of the amplifier needs to be without any connector. For making connections to balanced inputs, loosen the screws on the Euroblock connector, strip the cable and insert bare end of cable to the connector holes and tighten. The Euroblock connector can be detached from the mating socket by pulling out, if you need to do the wiring before installing the amplifier. Details of the various inputs are explained above under 'Back Panel'. Pin connections for balanced inputs are printed on the back panel.
- ii. Connect a dynamic microphone (or a condenser microphone **with its own power source**), to the terminal marked Mic in, as required. Pin connections for Mic in are printed on the back panel. Note that the microphone is a priority input, hence it will override other inputs when used.
- iii. Connect the left and right speakers to the speaker terminals consisting of barrier strip. Loosen the screws on the barrier strip and insert the bare end of speaker cable to the terminal, and tighten. Take care to maintain correct polarity. Also check that there is no flying strand of wire which can inadvertently short adjacent terminals.
- iv. Ensure power switch is in OFF position.
- v. Connect the mains cable supplied to the IEC AC socket and the other end of the cable to a grounded AC outlet providing 230V, 50Hz power.
- vi. Switch on power with the help of power switch on the front panel. The standby LED will glow red, and the display of USB/SD card player will light up. The amplifier has a built-in on-off thump eliminator which prevents nasty on-off thumps coming from the speaker. When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid on-off thumps from other equipment connected to the amplifier from being audible. When turning the power off, the power amplifier should be turned off FIRST for the same reason.
- vii. Keep master volume and Mic level control at minimum, and tone controls at middle, initially.
- viii. Apply signal from source. The standby LED colour will change to green. You will also hear a soft whirring sound as the internal fan switches on. Turn up master volume, as required. Set tone controls to your liking. Note that all inputs are mixable, including the built-in USB player, hence you can play only one input at a time.
- ix. To use the built-in USB /SD card player, insert a USB flash-drive or SD card having pre-recorded audio, into the respective slots. As soon as the player detects an audio track, it will start playing the track. To pause, change tracks or fast-forward/rewind, press the respective buttons of the player. Details are given under Front panels.
- x. To use the BT feature, press mode switch to select BT. Your phone will search for new devices, and you should see the name BLUETOOTH which is the device name for the SDV amplifier. Select pairing to this device from your phone. Once connected, you can play audio from your phone. You can control the volume from your phone if you want.
- xi. Connect microphone for announcement. This will mute other inputs that are playing.
- xii. As you turn up the volume of the amplifier, it will start to become hotter and the speed of the internal fan will increase continuously to cool the amplifier. This will create a louder whirring sound. This is perfectly normal.

# SPECIFICATIONS

## SDV 2010

DESCRIPTION	Stereo Integrated amplifier
INPUT	LINE: Stereo balanced input : 2 x 3 pin Euro Block connector Stereo unbalanced input: 2 x RCA MIC: Balanced input via 1 x 3 pin Euro Block connector USB, SD Card and BT
LINK	Line level output via 2 x 3 pin Euro Block connector
SPEAKER OUTPUT	Stereo output via 1 x 4 pin barrier strip
CONTROLS	
MASTER VOLUME CONTROL RANGE	- ∞ TO +6dB
MIC VOLUME CONTROL RANGE	- ∞ TO +6dB
BASS	- 6dB TO +6dB
TREBLE	- 6dB TO +6dB
INDICATORS	
STAND BY	RED: Amplifier in standby mode GREEN: Amplifier in active mode
HIGH MAINS VOLTAGE PROTECTION	Red
AMPLIFIER TYPE	Class D with SMPS
AMPLIFIER POWER BEFORE CLIPPING	2 x 100W @ 4Ω 2 x 50W @ 8Ω
S/N RATIO	> 90dB
AMPLIFIER THD AT RATED POWER	< 0.2%
FREQUENCY RESPONSE	20Hz ~ 23kHz
INPUT IMPEDANCE	22kΩ
AUTO ST.BY FUNCTION	Yes
PRIORITY	Yes. Mic over line
COOLING	Fan cooled
PROTECTION	Short circuit protection Thermal protection Overload protection High mains voltage protection > 265V AC
POWER SUPPLY	
MAINS VOLTAGE	230 V AC, 50Hz
PHYSICAL	
FINISH & CONSTRUCTION	Black powder coated mild steel cabinet
DIMENSIONS ( HxWxD)	98mm x 437mm x 210mm
NET WEIGHT	4.9kg

NOTE: Due to continuous improvements, all specifications are subject to change

# SPECIFICATIONS

## SDV 2020

DESCRIPTION	Stereo Integrated amplifier
INPUT	LINE: Stereo balanced input : 2 x 3 pin Euro Block connector Stereo unbalanced input: 2 x RCA MIC: Balanced input via 1 x 3 pin Euro Block connector USB, SD Card and BT
LINK	Line level output via 2 x 3 pin Euro Block connector
SPEAKER OUTPUT	Stereo output via 1 x 4 pin barrier strip
CONTROLS	
MASTER VOLUME CONTROL RANGE	- ∞ TO +6dB
MIC VOLUME CONTROL RANGE	- ∞ TO +6dB
BASS	- 6dB TO +6dB
TREBLE	- 6dB TO +6dB
INDICATORS	
STAND BY	RED: Amplifier in standby mode GREEN: Amplifier in active mode
HIGH MAINS VOLTAGE PROTECTION	Red
AMPLIFIER TYPE	Class D with SMPS
AMPLIFIER POWER BEFORE CLIPPING	2 x 200W @ 4Ω 2 x 100W @ 8Ω
S/N RATIO	> 90dB
AMPLIFIER THD AT RATED POWER	< 0.2%
FREQUENCY RESPONSE	20Hz ~ 23kHz
INPUT IMPEDANCE	22kΩ
AUTO ST.BY FUNCTION	Yes
PRIORITY	Yes. Mic over line
COOLING	Fan cooled
PROTECTION	Short circuit protection Thermal protection Overload protection High mains voltage protection > 265V AC
POWER SUPPLY	
MAINS VOLTAGE	230 V AC, 50Hz
PHYSICAL	
FINISH & CONSTRUCTION	Black powder coated mild steel cabinet
DIMENSIONS ( HxWxD)	98mm x 437mm x 210mm
NET WEIGHT	5.5kg

NOTE: Due to continuous improvements, all specifications are subject to change

Register your product  
to activate your warranty:  
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Upload a picture or video of your Sonodyne  
product or write about your Sonodyne  
experience.  
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If you have anything less than a 5 star experience,  
please contact us at [response@sonodyne.com](mailto:response@sonodyne.com)  
and we will make it right

# SONODYNE

SONODYNE, India • H.O.: 98 NB Block E New Alipore, Kolkata 700053

 sonodyneofficial

 +91 9830855260

 SonodyneMusic

 [response@sonodyne.com](mailto:response@sonodyne.com)

 sonodyneofficial

 [www.sonodyne.com](http://www.sonodyne.com)