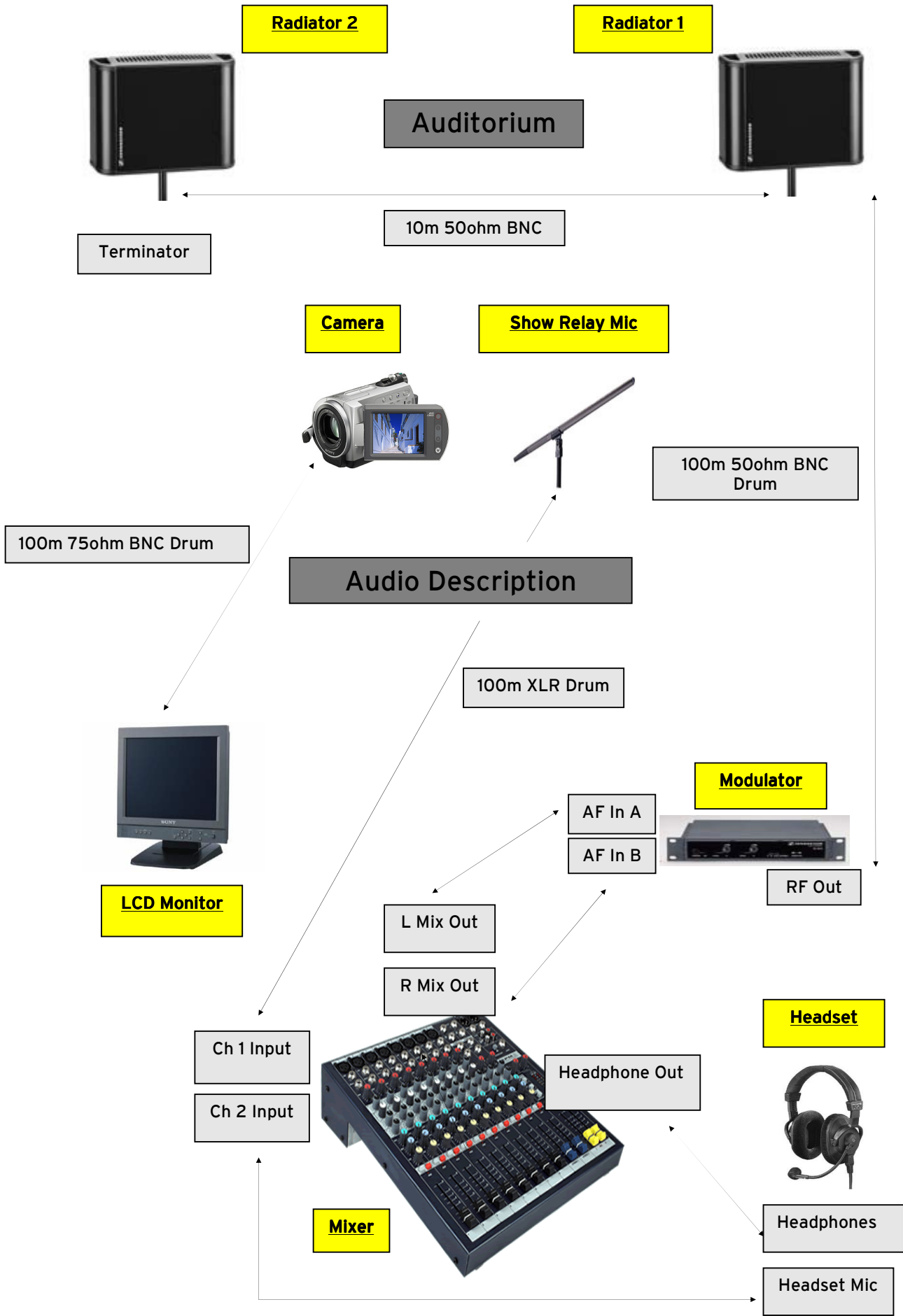


◀ See a Voice ▶

AUDIO DESCRIPTION TECHNICAL GUIDE

Full Equipment List:

2 x Sennheiser IR Radiators (SKI 1029) (2 x IEC Lead)
1 x Sennheiser Modulator (BSI 1015) + power supply + IEC Lead
1 x Soundcraft EPM6 Mixer + IEC Lead
20 x Sennheiser HDI 302 Stethoset + Batteries
2 x Beyer DT209 Headsets + Connector Cables
2 x Sennheiser charging trays + power supplies
1 x Rifle Microphone AT815B + Clip
1 x Sony LMD 1410 Monitor + IEC Lead
1 x Sony DMR EZ45VEBS DVD Video Recorder + Remote
1 x Sony DCRS32E Camera + battery, power supply, handycam station,
cables and CD roms
1 x 100m 50ohm BNC cable drum
1 x 100m 75ohm BNC cable drum
1 x 100m XLR3 cable drum
2 x 5m 75ohm BNC cable
3 x 10m 50ohm BNC cable
5 x 5m XLR3 Cable
3 x Hook clamps and bolts
1 x 50ohm BNC terminator
Manuals and PAT test record sheets



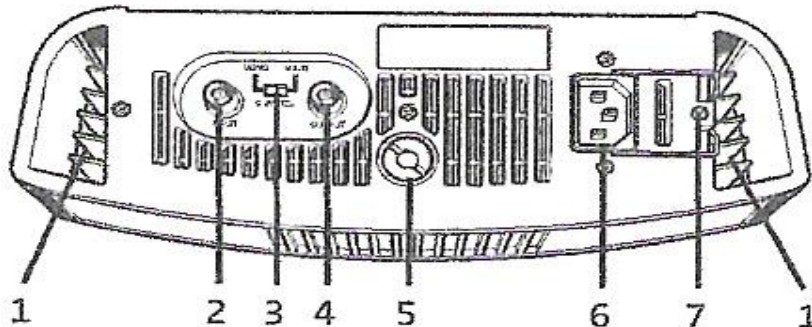
This guide is intended to assist with the setup of the audio description system provided by See A Voice. For further operating instructions for all equipment refer to the user guides provided.

Auditorium

Equipment:

2 x Sennheiser IR Radiators (SKI 1029)
1 x Rifle Mic AT815B + Clip
1 x Sony DCRS32E Camera + battery, power supply, handycam station, cables and CD roms
1 x 100m 50ohm BNC cable drum
1 x 100m 75ohm BNC cable drum
1 x 100m XLR cable drum
3 x Hook clamps and bolts
1 x 50ohm BNC terminator

Radiators x 2



- 1: Heat Sinks
- 2: RF Input
- 3: Mono/Multi Switch
- 4: RF Output
- 5: Threaded Mounting
- 6: Power Socket
- 7: Power supply clip

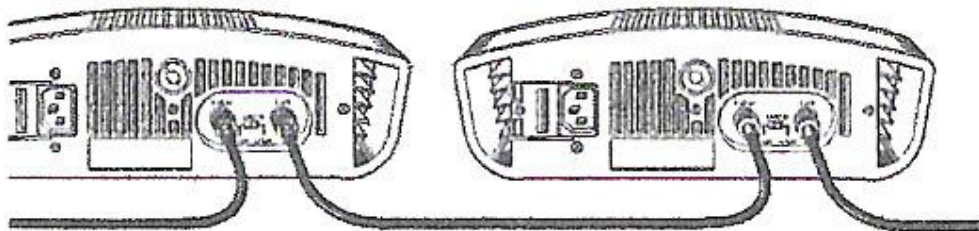
The radiators are mounted on the hook clamps attached to the mounting thread on the radiator. If no bar mounting positions are available the radiators can be mounted on a standard microphone stand (not supplied). Care should be taken when rigging to ensure the heat sinks are not covered.

The radiators should be positioned above, and angled slightly down, towards the audience. Either in a central position angled out, or on either side of the audience angled in. There should be direct line of sight to areas that need to be covered. A minimum of two meters should be left between the radiators and the receivers. Some experimentation may be necessary to gain the best coverage for a specific space. For detailed information about positioning and diagrams consult the user guide for the radiators.

Once power is connected to the radiator the red standby LED will be lit. When a signal is received the green LED will be lit. If both LED's are illuminated this indicates a fault with the unit.

Signal cable from the modulator connects to the BNC input connector, using the 100m 50ohm BNC drum from the audio describers position.

The two radiators are daisy chained together, from the output connector of the first radiator, to the input connector of the second radiator, using one of the 10m BNC cables. The output of the second radiator should be terminated with the supplied 50ohm terminator. No splitters should be used in the signal run as this will halve the impedance of the signal.



Daisy Chaining Radiators

The **Mono/Multi** switch should be set to **Multi** to allow the audio signals from the describers microphone and the show relay to be transmitted independently. If only one audio signal is required, the radiator can be set to **Mono**, this will also increase the power of the radiator allowing it to cover a larger area.

Show Relay Mic

The microphone is mounted using a hook clamp attached to the microphone clip. Alternatively a microphone stand can be used (not supplied) if no bars are available.

The microphone should be mounted pointing at the stage or performance area; ideally directly in front. The microphone should be mounted in front of the audience to prevent too much audience noise being picked up. Avoid placing the microphone too close to any speakers to prevent music or sound effects from overpowering the sound from the stage.

Connect the microphone to the 100m XLR3 drum, which runs back to the audio describers position. Where audio tielines are available to the describers position, these can be used instead of the XLR3 cable drum.

The microphone can be powered by a single AA battery which fits into its base, or by using phantom power from the mixing desk. It is recommended both power sources are used to provide a backup.

Camera

Position the camera on the tripod in the centre of the auditorium, with a good view of the stage or performance area.

Connect the cameras output adapter to the 100m 75ohm BNC drum via the BNC to Phono adapter. Then run the cable to the audio describers position.

The camera automatically displays through the output cable to a monitor when switched on. All that should be required is to turn the camera on, connect the cable, open the lens cover and the image should be displayed on the monitor.

Ensure that 'auto shut off' is disabled or the camera will shut down after a set amount of time. To disable 'auto shut off' go to **Home menu > Option Menu > General Set**, and set **Auto Shut Off** to **Never** (when power is connected 'auto shut off' is set to **Never** by default).

For further instructions on camera operation please consult the user manual.

Audio Describers Position

Equipment:

1 x Sennheiser Modulator (BSI 1015) + power supply
2 x Beyer DT209 Headsets
1 x Soundcraft EPM6 Mixer
1 x Sony LMD 1410 Monitor
2 x 5m 75ohm BNC cable
3 x 10m 50ohm BNC cable
4 x 5m XLR3 Cable

Mixer

Two suggested configurations are provided for setting up the sound desk depending on the audio describers requirements.

Configuration 1

This configuration allows monitoring of the two input channels through the headphones, but only allows for global level adjustments in the headphones. If the ability to adjust level of the inputs individually in the headphones is required then configuration two should be used.

Mixer Channel Inputs:

- 1:** Show Relay Microphone (one of the short XLR3 cables will be required to connect the XLR3 drum from the microphone to the desk)
- 2:** Audio Describers Headset (XLR3 Connector)

Outputs:

L: Modulator input A

R: Modulator input B

Headphone Output: Describers headset (stereo jack)

Desk Settings:

Channel 1: Pan left

Channel 2: Pan Right

Configuration 2

This configuration requires two stereo jack to male XLR3 adapters (not supplied).

Configuration two allows for individual monitoring of the two input channels, which is achieved by using the two AUX outputs instead of the LR outputs. The LR faders are only used to adjust the levels of the two inputs in the headphones. During the sound check any reference to the LR outputs should be applied to the AUX controls on the input channels.

Mixer Channel Inputs:

- 1: Show Relay Microphone (one of the short XLR3 cables will be required to connect the XLR3 drum from the microphone to the desk)
- 2: Audio Describers headset (XLR3 connector)

Outputs:

Aux 1: Modulator input A
Aux 2: Modulator Input B
Headphone output: Describers Headset (stereo jack)

Desk Settings:

Channel 1: Pan left
Channel 2: Pan right
Aux 1: Post fade
Aux 2: Post fade

Modulator

The **AF A** and **B** modulator inputs are connected to the L and R outputs of the mixer. The modulator should be set to AB to allow the two channels from the desk to be transmitted.

Only one of the outputs need be used. Connect the modulator RF Out A to the 100m 50ohm BNC cable leading to the radiators in the auditorium. If necessary use one of the 10m 50ohm BNC cables to connect to the drum.

The modulator features IR diodes on the front to allow monitoring with a headset without the need for a separate radiator.

The level controls on the modulator should be set during the sound check.

Monitor

The BNC drum from the camera should be attached to one of the inputs on the monitor. One of the short 75ohm BNC cables will be required to connect from the drum to the monitor. Select the appropriate input on the front of the monitor.

Sound Check

The sound check should be used to check the levels of the show relay microphone, the describers headset microphone, the modulator and receivers in the auditorium. It is also an opportunity to check all elements of the system are functioning.

Test the level of the show relay microphone by having someone stand on stage and speak. If the show contains loud music or effects it is a good idea that these are played to ensure the level of the microphone is set to work with these effects and the desk is set to handle the level.

Using the PFL button adjust the input gain on the show relay channel to a level which peaks at 0db.

The same should be done with the audio describers headset microphone channel, with the describer using the headset to ensure the correct settings for the individual's voices are achieved.

Set the input channel faders and the LR output faders to 0db. With the describer speaking through the headset a signal should be received by the modulator. Turn up the input dials on the modulator until the red peak indicator turns from green (signal) to red (peak), then turn the volume controls back until the LED only occasionally registers peak.

The headphone level should be set by the describer during the check using the headphone level control.

The signal should be monitored at front of house by using one of the receivers to determine the correct level for listening. It is advised that this is done with the volume on the receiver set to half to allow for the individual requirements of the audience members. It is advisable to check the signal reception throughout the auditorium to ensure the coverage is acceptable. Also take this opportunity to ensure the correct signals are coming through on each of the receivers channels:

- A = Show Relay
- B = Audio Describer
- Dual = Both

Once the levels are set the faders should be marked at the optimum level to ensure the correct volume in the auditorium. If the volume needs to be raised beyond the optimum level the faders should not be brought past the 0db point, at which the peak on the modulator was set, to prevent the signal clipping and discomfort to the audience.

Front Of House

Equipment:

20 x Sennheiser HDI 302 +
Batteries
2 x Sennheiser charging trays +
power supply

Headsets (Stethoset)

Ensure all batteries are charged before use. When charging the batteries they can be kept in the headsets or removed. A more reliable charging connection will be achieved if the batteries are removed before charging. If the batteries are charged in the headset units make sure they are switched off.

The charger trays have a charging cycle of 10 hours. If they are turned off during the charging cycle when turned on again they will begin the cycle from the beginning.

The headsets have three channel selector switches: A, B and Dual. When A or B are selected only the corresponding channel will be heard. When dual is selected both channels will be heard; one channel through each ear.

After use all of the earpieces on the headsets should be cleaned with antiseptic wipes or removed and soaked in a safe solution.

Recording

For recording using the camera's hard drive and transferring the video to a PC or DVD/ Video recorder, refer to the camera's user guide.

Recording an audio described show using the DVD player

It is possible to record the audio described shows using the equipment set up, as above, with the addition of the DVD recorder.

A video signal can be run to the recorder using the output BNC connector on the monitor. A BNC to phono adapter will be required to connect to the recorder's input (not supplied, a scart to phono adapter is supplied). The audio signal can be taken from the mixers two track recording out, using a phono to phono cable.