

HELMDON READING ROOM AUDIO-VISUAL EQUIPMENT USERS GUIDE

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Quick Guide

Quick prompts for regular system users (two pages)

*This User's Guide is based on individual component documents plus extensive testing.
Please report any discrepancies by email to helmdonpcweb@helmdonparishcouncil.gov.uk*

Abbreviations / Glossary

2D	2-Dimension (standard) movie
3D	3-Dimension movie Viewer must wear active-shutter glasses to see the enhanced illusion of depth perception.
AUX	Auxiliary audio input
AV (AV Amp)	Audio/Video (Amp=Amplifier=ONKYO TXSR508)
BD	Blu-ray Disk
CD	Compact [Audio] Disk
Computer	Personal computer (PC) or Laptop device
D-SUB	Video connector with 15-pins in 3 rows, used for VGA, SVGA, XVGA etc.
DVD	Digital Versatile [Video] Disk
HDMI	High Definition Multimedia Interface (carries video, audio and control signals)
Hearing Loop	Circuitry and loop aerial to provide an signal for the benefit of hearing aid users.
LED	Light Emitting Diode (= lamp or indicator)
Listening Modes	Range of sound distribution/processing modes for front-only, or all speakers. Some modes introduce a slight delay and therefore not suitable for Public Address (microphone) use. See individual sections for recommended Listening Modes.
MIC	Microphone(s)
MIX	Mixer unit (for microphones plus optional audio input)
MP3 player	Device for playing audio tracks with audio (line) output at 3.5mm stereo jack socket.
NiMH	Nickel-Metal Hydride rechargeable batteries
PA	Public Address
PC	See 'Computer' above
Player	Device to play movie (BD/DVD), to play music (CD) or to play audio or video files held on removable media.
Speakers	Loudspeaker units: Front stereo pair; rear stereo pair (or movie surround sound); centre front (movie dialogue) and subwoofer.
Subwoofer	Loudspeaker unit reproducing low audio frequencies.

Section 1) **MICROPHONES for HEARING LOOP ONLY**

INSTRUCTIONS:

1. Turn on AV AMP+MICS power switch above cabinet
2. Turn on HEARING LOOP (plug above cabinet)
3. If AV AMP is ON then please switch to **STANDBY** (OFF) at the ON/STANDBY switch. (If display is lit or **blue** indicator lamp is ON then AV AMP is ON).
Leave AV AMP **ON** if playing MUSIC (described in section 3) or a MOVIE (described in section 4)
4. Switch chosen mic **ON** by long press of button on end of mic. Note: Another long press for mic OFF; Short press for **MUTE/UNMUTE**
5. Hold mic ~10cm (4") from mouth; Check that green lamp on 'loop box' flashes when talking into mic.

NOTES FOR MICROPHONES:

There is a small table-stand in the cabinet and a floor-stand next to the cabinet.

NOTE FOR MIXER:

Use LAPEL, HAND HELD and MASTER level controls if required (see photo at end of this guide for typical settings)

VERY IMPORTANT:

- **Remove lapel-mic before speaker leaves the room**
- **When finished, SWITCH OFF all microphones otherwise batteries will be exhausted overnight** (indicator lamps OFF at mic & receiver box), then
- **Switch OFF power switches above the AV cabinet**

Section 2) **MICROPHONES for PUBLIC ADDRESS (PA) and HEARING LOOP (optional)**

INSTRUCTIONS:

1. Turn on AV AMP+MICS power switch above cabinet
2. Optionally, turn on HEARING LOOP (plug above cabinet)
3. Switch on AV AMP (If **blue** indicator lamp ON then AV AMP is ON)
4. Press MIC/MIX/PA button; Press PURE AUDIO button to get blue indicator lamp ON; Set volume control to ~20.
6. Switch chosen mic **ON** by long press of button on end of mic. Note: Another long press for mic OFF; Short press for **MUTE/UNMUTE**
5. If using Hearing Loop, check that green lamp on 'loop box' flashes when talking into mic.
6. Move mic well away from speakers to avoid feedback
7. Use volume dial or ONKYO remote to volume ~40
8. Hold mic ~10cm (4") from mouth

NOTES FOR MICROPHONES:

There is a small table-stand in the cabinet and a floor-stand next to the cabinet.

NOTES FOR MIXER:

Use LAPEL, HAND HELD and MASTER level controls if required (see photo at end of this guide for typical settings)

You can connect a Laptop/Tablet/Smartphone to mix an audio source with the mics. For connection and configuration information, please refer to Section 5.

VERY IMPORTANT:

- **Remove lapel-mic before speaker leaves the room**
- **When finished, SWITCH OFF all microphones otherwise batteries will be exhausted overnight** (indicator lamps OFF at mic & receiver box)
- **When finished, switch AV Amp to OFF/STANDBY then, after it shuts down...**
- **Switch OFF power switches above the AV cabinet**

Section 3) **MUSIC on CD**

You can use MICROPHONES for HEARING LOOP ONLY (as described in Section 1) while playing MUSIC on CD

These instructions suggest using the PANASONIC Player.
The SONY player also may be used – but no sound to Hearing Loop.

POWER SWITCHES:

AV AMP+MICS ON
SUBWOOFER ON (optional) - for extended bass response
HEARING LOOP As required (plug above cabinet)

MUSIC PLAYER:

Switch ON and use OPEN/CLOSE button to load media.

AV AMP:

Set ON/STANDBY switch to ON and set VOLUME=20

Press PANASONIC button on AV AMP to select input.

Ensure CD is loaded then confirm Listening Mode by pressing DISPLAY button on AV Amp.

DIRECT uses front speakers.

ALL CH ST (all channels stereo) uses all speakers.

NEO:6 MUSIC gives a surround effect using all speakers.

PURE uses only front speakers (and ignores tone controls).

To change Listening Mode use 2nd (music) of Listening Mode buttons (after CD loaded). For more details see Reference Information a).

IN USE:

Use the OPEN/CLOSE button to change media - DON'T push the tray.

Use PANASONIC remote to play/stop media, select tracks & adjust volume. Note that SONY remote does not control volume.

NOTE:

If hearing loop users have lo-cut switch on ear-piece, then switching this OFF might give a better music sound.

VERY IMPORTANT, when finished:

- Use the OPEN/CLOSE button to remove media
- **Switch AV Amp & Player to OFF/STANDBY then, after they have shut down...**
- **Switch OFF power switches above the AV cabinet**

Section 4) **MOVIES on DVD or Blu-ray**

*There are 3 subsections: **SETUP, IN USE & BREAKDOWN***

Section 4.1) **MOVIES on DVD or Blu-ray – SETUP**

SCREEN:

- Carefully pull down the screen (tool located by edge of folding doors). Hold down until screen stays in required position.

SUBWOOFER:

- The subwoofer can be left inside enclosure, but for best effect it should be placed 30-50cm to the side of the cabinet.

Warning: Moving parts of subwoofer are on the UNDERSIDE. Be EXTREMELY CAREFUL when moving it. Only lift at the corners and do not put hands too far under.

POWER SWITCHES:

AV AMP+MICS ON SUBWOOFER ON HEARING LOOP As required
(plug above cabinet)

PROJECTOR REMOTE: * NEVER LOOK INTO PROJECTOR BEAM *

- Press **ON** button on projector remote (point towards projector).
- When warmed up, press **HDMI 1** on remote then wait a few seconds.
- Press **VOLUME-** until showing **0** on screen.

Optionally:

- After disk has loaded (player has determined if 3D), press **COLOUR MODE** on Projector remote and select:
DYNAMIC (wait a few seconds) - for maximum brightness & contrast
CINEMA (wait a few seconds) - for lower contrast (e.g. movies)
- Use **BLANK** to temporarily blank the screen.

PLAYER:

- Decide which player to use:
PANASONIC player supports the Hearing Loop.
PANASONIC remote provides volume control.
PANASONIC player does NOT support 3D media.

SONY player supports 3D media.

SONY player does NOT support Hearing Loop, but you can use MICROPHONES for HEARING LOOP as described in Section 1.

SONY player does NOT offer volume control at the SONY remote.

- Switch player ON
- Use OPEN/CLOSE button to load disk (don't push tray)

Section 4.1 (continued) **MOVIES on DVD or Blu-ray – SETUP**

AV AMP:

- Set ON/STANDBY switch to ON and set VOLUME=40
- Press SONY button or PANASONIC button (as applicable)
- Ensure media is loaded then confirm Listening Mode (sound stage) by pressing the DISPLAY button on the AV AMP.

FOR MOVIES WITH 5.1 SOUNDTRACK:

Use DIRECT

FOR MOVIES WITHOUT 5.1 SOUNDTRACK:

Optionally use a movie Listening Mode (e.g. NEO:6 CIMEA).

To change Listening Mode (after media is loaded) use 1st (movie) of the three Listening Mode buttons. For explanation of all Listening Modes see Reference Information a).

If **no** communication with projector, refer to problem F in Problem Solving section at end of this guide.

Section 4.2) **MOVIES on DVD or Blu-ray – IN USE**

Media control (stop/start/advance) using player remote:

- **If at disk TOP MENU, use the ENTER button (centre button) to confirm your selection. E.g. to PLAY the DVD**
- Some commands are not possible during protected programs such as copyright display or a trailer. You may get message such as "This action is prohibited with this disk" (or similar). This is normal, wait until the protected section has completed.

Features (e.g. subtitles):

- Select via on-screen TOP MENU using player remote, or for SONY:
While **main feature** is playing (or paused) press OPTIONS on remote, make selection, then exit using RETURN or EXIT buttons.

Sound:

- Use volume control on AV Amp, or ONKYO & PANASONIC remotes. Unfortunately, the SONY remote cannot control volume.
- Sound configuration may change for Menu, Trailer, Main Feature.
- If no bass sound (or no power light on subwoofer), check that power lead is fully inserted in subwoofer. Also check that signal cable is connected to the white (L) input socket.
- If hearing loop users have lo-cut switch on ear-piece, then switching this OFF might give a better sound.

Section 4.3) **MOVIES on DVD or Blu-ray - BREAKDOWN**

VERY IMPORTANT:

- **Remove lapel-mic before speaker leaves the room**

When finished:

- Use the Player's OPEN/CLOSE button to remove media
- **SWITCH OFF all microphones otherwise batteries will be exhausted overnight**
(indicator lamps OFF at mic & receiver box)
- **Switch AV Amp & Player to OFF/STANDBY**
- **Shut down projector by pressing OFF/STANDBY button of Projector remote.**
- **Switch OFF power switches above the AV cabinet**

SCREEN - BREAKDOWN:

- Use the reverse of setup procedure.

SUBWOOFER – BREAKDOWN:

Warning: Moving parts of subwoofer are on the UNDERSIDE. Be EXTREMELY CAREFUL when moving it. Only lift at the corners and do not put hands too far under.

- Place unit on lowest shelf of cabinet. Do not allow any plugs, cables etc. to get trapped under subwoofer in case they cause damage.

Section 5, page 1) **AV MEDIA on LAPTOP / TABLET / SMARTPHONE, etc.)**

POWER SWITCHES:

AV AMP+MICS	ON (OFF if connecting directly to the projector panel AND NO audio required)
SUBWOOFER	ON for extended bass response
HEARING LOOP	As required (plug above cabinet)

CONNECTION OPTIONS:

1. Get external device working normally and set the device volume control to maximum.
2. Select the appropriate configuration from list below (cables and adapters are on bottom shelf of cupboard):

MEDIA WITHOUT VIDEO - CONFIGURATIONS:

Device audio (NO video and not mixed with Mic for PA**):**

Connect to **AUX HDMI** cable (left side of AV Amp) then press **AUX** **or** connect to **3.5mm jack** AUX cable then press **AUX** button **or**

if device has compatible **USB-C** output, connect to long USB-C cable near centre of AV AMP, then press **USB-C** button.

You may need to check the device's audio settings to verify that audio is going to the correct output.

Go to page 3 of section 5.

Device audio mix with Mic for PA+Hearing Loop (NO video**):**

Connect audio 3.5mm cable, or USB-C via short cable adapter, to the microphone mixer **2TK input** (do not use AUX cables).

Press **MIC/MIX/PA** button to get PA working.

Use mixer **2TK IN** level control (marked Laptop) as required.

Go to page 3 of section 5.

MEDIA WITH VIDEO - CONFIGURATIONS:

D-SUB(VGA) video cable connects to panel above cupboard while the audio connects to **AUX 3.5mm**. Press **AUX** button on AV amp.

HDMI audio/video connects to **AUX HDMI** cable at left side of AV Amp. Press **AUX** button on AV amp to get audio and video working.

For both above, you can use **Mic for Hearing Loop**, but NOT Public Address (PA.) To also use the **Mic for PA**. see next subsection.

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Section 5, page 2) **AV MEDIA** on **LAPTOP / TABLET / SMARTPHONE**, etc.)

TO MIX DEVICE stereo AUDIO with MIC for PA:

Connect D-SUB (VGA) or HDMI directly to panel on wall above cupboard. **Important:** HDMI 1 metre max., D-SUB 5 metre max.

Connect audio 3.5mm cable, or USB-C via short cable adapter, to the microphone mixer **2TK input** (do not use AUX cables).

Press MIC/MIX/PA button to get PA working.

Use mixer 2TK IN level control (marked Laptop) as required.

Note that you may need to check device's audio setting to check whether audio is going to the headphone socket.

See also section 2 for use of Microphones.

PROJECTOR & SCREEN SETUP: * NEVER LOOK INTO PROJECTOR BEAM *

1. Carefully pull down the screen (tool located beside folding doors). Hold down until screen stays in required position (normally equal amount of black border above and below the white area of screen. If needed, use corded weight to hold screen down.
2. Press **ON** button on projector remote. Remote sensors at front and rear of projector but normally okay to point remote at the screen.
3. When warmed up, press **HDMI 1** if using AUX HDMI cable, or press **PC if using D-SUB** (15 pin VGA) cable. Wait for image to appear.
4. If using D-SUB (15 pin VGA) cable, press **ASPECT** button to check image size (and press **ASPECT** again to make changes) e.g. Normal, Zoom. Wait a few seconds for re-sized image to appear. This feature can be used to remove image borders.
5. Press **COLOUR MODE** button on remote and select e.g.:
DYNAMIC (wait a few seconds) - for maximum brightness & contrast
CINEMA (wait a few seconds) - for lower contrast (e.g. movies)
6. Adjust **VOLUME+ VOLUME-** to **0**
7. Optionally, press **BLANK** to temporarily blank screen during set-up.

If **no** communication with projector, refer to problem F in Problem Solving section at end of this guide.

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AUDIO SETTINGS:

If using Device Audio or Mics, set AV Amp ON/STANDBY switch to ON and set VOLUME to 40 (If blue indicator lamp ON then AV AMP is ON)

To check Listening Mode (sound stage) press the DISPLAY button on AV AMP:

For 5.1 Soundtrack (using HDMI AUX or USB-C):

DIRECT uses speakers as defined in the multimedia file.

For Stereo (2.0) soundtrack - CD (or better) quality music:

DIRECT uses front speakers.

ALL CH ST (all channels stereo) uses front and rear speakers.

NEO:6 MUSIC gives a surround effect and uses all speakers.

However, speech might not be in sync with video.

PURE uses only front speakers and ignores tone settings.

For compressed or low-quality audio:

DIRECT uses front speakers.

ALL CH ST (all channels stereo) uses front and rear speakers.

PURE uses only front speakers and ignores tone settings.

To change Listening mode use 1st (movie) or 2nd (music) of the three Listening Mode buttons. For explanation of all Listening Modes see Reference Information a).

Note:

Microphones, if used, will pick up sound from any loudspeaker within 3 metres. See Section 1 for instructions on microphone use.

VERY IMPORTANT - when finished:

- **If projector used, press VOLUME- on Projector remote (to 0) then shut down by pressing STANDBY button on Projector remote**
- **If microphones used, switch OFF all microphones otherwise batteries will be exhausted overnight**
(indicator lamps OFF at mic & receiver box)
- **Switch AV Amp to OFF/STANDBY then, after it shuts down...**
- **Switch OFF power switches above the AV cabinet**
- **Use Projector remote STANDBY button to shut down projector**

Section 6, page 1) **AV MEDIA** on **REMOVEABLE DEVICES** (USB/SD/DVD/CD)

POWER SWITCHES:

AV AMP+MICS ON
SUBWOOFER ON for extended bass response
 OFF if no audio
HEARING LOOP As required (plug above cabinet)

SCREEN:

Carefully pull down the screen (tool located by edge of folding doors). Hold down until screen stays in required position.

PROJECTOR REMOTE: * NEVER LOOK INTO PROJECTOR BEAM *

Press **ON** button on projector remote (point towards projector).

When warmed up, press **HDMI 1** button on remote.

Press **VOLUME -** until showing **0** on screen.

Press **COLOUR MODE** button on remote and select e.g.:

 DYNAMIC (wait a few seconds) - for maximum brightness & contrast

 CINEMA (wait a few seconds) - for lower contrast (e.g. movies)

Optionally: use **BLANK** to temporarily blank screen if required.

If **no** communication with projector, refer to problem F in Problem Solving section at end of this guide.

AV AMP:

At AV amp, set ON/STANDBY switch to ON

Select SONY input and set VOLUME to 30

PLAYER:

Switch on SONY player and then insert DVD/CD/USB media. Use the OPEN/CLOSE button to change disks - don't push the tray.

Use PANASONIC player if using the Hearing Loop - see NOTES on P.2

When media is inserted and loaded (might take a short time) you can then use the SONY remote:

RETURN to go back one level, e.g. to get list of file folders

◀ ▶ } { to choose between Audio / Picture / Video

▲ ▼ } { and to move through lists of folders or files.

ENTER to select a folder or file. Alternatively, use:

PLAY / STOP (>/■) to start / stop a slideshow.

OPTIONS depend on media and file type. Options include:
SLIDESHOW SETTINGS (SPEED, REPEAT OPTIONS, etc.)

(**HOME** to return to start point)

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Section 6, page 2) **AV MEDIA on REMOVEABLE DEVICES** (USB/SD/DVD/CD)

AUDIO CONSIDERATIONS:

Adjust volume with the manual volume control, ONKYO remote or the PANASONIC remote. The SONY remote cannot control the volume of the AV Amp.

To check Listening Mode (sound stage) press the DISPLAY button on AV AMP:

For CD quality music, DIRECT, PURE & NEO:6 MUSIC work well.

DIRECT uses speakers as defined in the multimedia file.

PURE uses only front speakers and ignores tone settings.

NEO:6 MUSIC gives a surround effect and uses all speakers. However, speech might not be in sync with the video.

For compressed audio (eg. MP3) or low-quality audio, DIRECT, STEREO, and ALL CH ST are recommended.

DIRECT uses speakers as defined in the multimedia file.

STEREO uses front speakers.

ALL CH ST (all channels stereo) uses all speakers.

To change Listening Mode use 1st (movie) or 2nd (music) of the three Listening Mode buttons. For explanation of all Listening Modes see Reference Information a).

MEDIA / PLAYER NOTES:

Point player remote towards the AV cabinet with door open (it won't respond if you point player remote toward the screen)

Lists of supported file formats for SONY player can be found in the reference section at end of this User's Guide.

If using PANASONIC player, use 'Function Menu' to select media and use 'Option' to start slideshow. Note that Panasonic Player does NOT support video file formats and file folders are not displayed.

Panasonic player DOES support the hearing loop. If hearing loop users have lo-cut switch on ear-piece, then switching this OFF might give a better audio quality.

VERY IMPORTANT - when finished:

- Use the OPEN/CLOSE button to remove disk media
- If used, **SWITCH OFF all microphones otherwise batteries will be exhausted overnight** (indicator lamps OFF at mic)
- **Switch AV Amp & Player to OFF/STANDBY**
- **Shut down projector by pressing OFF/STANDBY button on Projector remote**
- **Switch OFF power switches above the AV cabinet**

Problem A) No sound or distorted sound over hearing loop

- Check that mic is on (green indicator on mic)
- Check that green lamp on 'loop box' flashes when talking into mic.
- The angle and position of the receiver (earpiece) within the Reading Room can make a difference to the quality of the sound received. Please try moving to a different location.
- Check that speaker is using mic correctly, 10-30cm from mouth

Problem B) Sound delay or distortion from PA system speakers

- Sound delay at speakers is probably due to incorrect Listening Mode Use **Listening mode PURE (blue indicator on)**.
- Distorted (or unexpected) sound may be due to incorrect input selection. **Press MIC/MIX/PA.**

Problem C) Microphone batteries need recharging

- When batteries are getting low, the indicator lamp on microphone flashes green.
- Use standard alkaline AA batteries in microphones while recharging the NiMH batteries.
- Charger (in cabinet) requires at least one pair of batteries to be installed (correct = left pair, right pair or all).
- Charge time may be over-estimated at switch on. Charger display shows when batteries are fully charged. See enclosed detailed instructions (last page).

Problem D) Player remote won't control player

- Ensure that remote is pointing toward player.
- Check that correct (Sony vs Panasonic) remote is being used and that player is switched on and disk is loaded.
- Some commands are not possible during protected programs such as copyright display or a trailer. You may get message such as "This action is prohibited with this disk" (or similar). This is normal, wait until the protected program has completed.
- If at disk TOP MENU, use ENTER (centre button) to proceed with program or option selection.

Problem E) **No bass sound or no power light on subwoofer**

- Check that **power lead is fully inserted in subwoofer.**
- Check that **signal cable is connected to white (L) input socket.**

Problem F) **No projector communication with computer**

You may need to enable the external monitor (projector) if not automatic. For Windows, right click mouse in blank part of screen (i.e. not in a 'window'). Select "Graphics Options" (or Graphics Properties or graphics card manufacturer's setup utility icon.)

If offered choice of "Duplicate Displays" and "Extended Desktop", then "Duplicate Displays" (= Clone) is recommended. The computer display might not fill the entire screen - this is normal.

- **Check that** refresh rate and resolution for external monitor (projector) are in following table (D-SUB connection)

<u>Signal</u>	<u>Refresh Rate (Hz)</u>	<u>Resolution</u>
VGA	60/72/75/85	640 x 480
SVGA	56/60/72/75/85	800 x 600
XGA	60/70/75/85	1024 x 768
SXGA	70/75/85	1152 x 864
	60/75/85	1280 x 960
	60/75/85	1280 x 1024
	60/75/85	1280 x 1024
WXGA	60	1280 x 768
	60	1360 x 768
	60/75/85	1280 x 800

If not, for Windows computer change in "Graphics Properties".

When working, some computers have keys Fn+F4 or Fn+F5 to switch display between; computer, external monitor, both.

If still not working: In the Graphics Setup utility, mentioned above, did you see the second (clone) screen as an option?

- **If YES:** You do have communication with the projector and problem might be incorrect setting of screen resolution.
- **If NO:** Shut down projector and computer. Check pins for damage at both ends of D-SUB (VGA) cable. A short while after shutdown completes, replace cable and start again.

If still NO: Has computer worked with other secondary screens in the recent past? - If YES: **Shut down** computer and **projector** again. **Wait for projector to cool down (fan goes off) then switch off at mains for one minute (circuit breaker No6 in fuse box nearest sliding door).**

Following pages are for reference

- a) Listening Modes
- b) Video Aspect Ratios
- c) Typical Mixer Settings (photo)
- d) Subwoofer Settings (photo)
- e) Battery Charger Instructions
- f) Supported File Formats (Music / Picture / Video)

Reference a) **Listening Modes**

Please refer to previous three pages for details of all Listening Modes (from ONKYO User's Guide). For default settings on this system, please refer to the QUICK GUIDE.

Reference b) **Video Resolution & Aspect Ratios**

For Supported D-SUB VIDEO resolutions see "Problem F" above

Following is for general reference only (not specification of projector / AV equipment). Accuracy is not guaranteed.

List of 4:3 Monitor Resolutions

Resolution - Aspect ratio

640x480	-----4:3	VGA
800x600	-----4:3	SVGA
1024x768	-----4:3	XGA
1152x864	-----4:3	
1280x960	-----4:3	
1400x1050	-----4:3	
1600x1200	-----4:3	
2048x1536	-----4:3	
3200x2400	-----4:3	
4000x3000	-----4:3	
6400x4800	-----4:3	

List of 16:9 Widescreen Resolutions

Resolution - Aspect ratio

852x480	-----16:9	
1280x720	-----16:9	TV HD
1365x768	-----16:9	
1600x900	-----16:9	
1920x1080	-----16:9	TV Full HD

List of 16:10 Widescreen Resolutions

Resolution - Aspect ratio

1440x900	-----16:10	WXGA+ (19")
1680x1050	-----16:10	WSXGA+ (22")
1920x1200	-----16:10	
2560x1600	-----16:10	
3840x2400	-----16:10	
7680x4800	-----16:10	

USING MICROPHONES

1. Turn **MICS+AMP** power switch ON above cabinet.
 2. If required, turn **HEARING LOOP** socket ON above cabinet. If using HEARING LOOP only, jump to step 4.
 3. Switch **AV AMP** ON; Press **MIC/MIX/PA** button; Check that **blue** indicator lamp is ON. If not on, press PURE AUDIO button (on left); Set volume to ~35.
 4. Move mic well away from speakers; Switch **on** by long press of button on end of mic; Another long press for mic off; Short press for **mute/unmute**.
 5. Hold mic ~10cm (4") from mouth.
 6. If Hearing Loop is ON, check green lamp on 'loop box' flashes when using mic.
- For detailed instructions see USER'S GUIDE **sections 1 & 2**.

USING MEDIA PLAYERS (SONY & PANASONIC)

MUSIC on CD:

The PANASONIC PLAYER has display to shown track numbers, etc.

Check AUDIO SET UP as listed on next page and/or USER'S GUIDE **section 3**.

MOVIES on DVD/Blu-Ray:

For 3D movies use only the SONY player.

For Hearing Loop with Movies use the PANASONIC player.

See USER'S GUIDE **section 4** for detailed 'Set up' and 'In use' instructions.

Check AUDIO SET UP as listed on next page.

See USER'S GUIDE **section 4** for detailed 'Breakdown' instructions.

For **Audio/Picture/Video FILES** on **DVD/CD/USB/SD** media:

See USER'S GUIDE **section 6** (some copies on back of cupboard door).

Check AUDIO SET UP as listed on next page.

LAPTOP/TABLET/SMARTPHONE DEVICES

Connection and configuration options are covered in USER'S GUIDE **section 5**.

Apple adapters are available.

Check AUDIO SET UP as listed on next page.

Detailed instructions in the USER'S GUIDE - light-green folder or QR Code.

USER'S GUIDE includes Problem Solving tips.

Important - Switch OFF all mics and AV equipment after use.

AUDIO SET UP (Listening Modes / Speaker selection)

LISTENING MODE - press 'Display' on AV AMP. Change with 1st (movie)/2nd (music) of three Listening Mode buttons. If using removable media, wait until loaded.

- | <u>Input selected</u> | <u>Listening Mode</u> (press 'Display') |
|---|--|
| • MIC/MIX/PA | PURE - blue indicator lamp is ON |
| • SONY (MOVIE) | DIRECT |
| • All other inputs - 5.1 (surround) audio ... | DIRECT |
| • All other inputs - 2.0 (stereo) audio, choose between: | |
| | DIRECT - front speakers only |
| | ALL CH ST [ereo]- front and rear speakers |
| | NEO:6 MUSIC - surround effect |

Note: PANASONIC audio also goes to Hearing Loop (if Hearing Loop is ON.)

PROJECTOR SET UP (Using Projector Remote)

Press **ON**; **Wait for warm up**.

Use projector remote to select (depending on connection method):

- D-SUB/SVGA .. Press **PC** (optional: Press **ASPECT** to check/adjust image size).
- HDMI or USB-C Press **HDMI 1** (has automatic image size adjustment).

Note: After making a change - expect delay before image reappears.

BRIGHTNESS:

Allow time for media to load (SONY player checks for 3D disk)

Using **Projector remote**, press **COLOUR MODE** to select:

- DYNAMIC then wait a few seconds - for highest brightness & contrast
- CINEMA then wait a few seconds - for lower contrast (e.g. movies)

When finished, press **STANDBY** to switch projector off.

VOLUME:

At Projector remote: Press: **VOLUME-** until **0** is displayed, then

At AV AMP: Adjust volume control (or use ONKYO / PANASONIC remote)
as required.



.....**USER'S GUIDE** – in light-green folder or use this QR Code

The USER'S GUIDE includes Problem Solving tips.

Switch OFF all mics and AV equipment after use.