VIOLET3D – APP NOTE 1

Connection of Various Audio Outputs

RCA OUTPUT (ANALOG)

- Can be connected to VIOLET3D using RCA cables

- The output through a single jack can be mono only(single channel) ,i.e. for stereo there should be two jacks as if in the picture. For 5.1 there should be 6 jacks.

NOTES:

- For an analog audio we can use ordinary (50ohm) RCA cables, for a digital audio output we may use 75ohm cables for a better performance.

TRS OUTPUT (STEREO JACK)

There are three common types of TRS outputs

- 3.5mm (most common), can be connected directly to VIOLET3D.

- 2.5mm, found in old mobile phones, can be connected to VIOLET3D using a converter.

- 6.35mm (mixer outputs), can be connected to VIOLET3D using a converter.

3.5mm female output

6.5mm to 3.5mm converter

2.5mm to 3.5mm converter

XLR OUTPUT (PROFESSIONAL EQUIPMENT)

- Some devices may be having XLR output for a balanced output.

- Can be connected to VIOLET3D through a converter.

XLR Output

XLR to RCA Converter

DIGITAL COAXIAL OUTPUT (SPDIF)

- Can be connected directly to VIOLET3D using RCA cable

- RCA cables with 75ohm will perform better than ordinary RCA cables which are 50ohm

NOTES:

- Audio is transmitted in coded format through a digital output.

- So digitally transmitted audio should be decoded from VIOLET3D.

- VIOLET3D doesn't have DTS decoder, so DTS audio should not be transmitted to VIOLET3D through digital coaxial input.

- All analog outputs(TRS,RCA etc..) will be having decoded audio , so that you can connect directly to VIOLET3D while playing a DTS audio.

- If the audio source(DVD player , Blue ray player etc..) has a HDMI output(which has decoded audio in it) you can go for a HDMI to 6C ANALOG converter to connect it to VIOLET3D.

DIGITAL OPTICAL OUTPUT (TOSLINK)

There are two types:

- TOSLINK

  - Can be connected to VIOLET3D using an optical to digital coaxial converter.

- MINI TOSLINK

  - Mini toslink jack(output) will be a 3.5mm TRS jack(headphone jack)

  - You can find this output in Apple MAC MINI, AIRPLAY etc..

  - Can be connected to VIOLET3D using a MINI TOSLINK to TOSLINK converter and a optical to coaxial converter

XLR to RCA Converter

MINI toslink to Toslink converter

toslink to coaxial converter

HDMI OUTPUT

- HDMI has both coded and decoded audio transmitted through it .

- Can be connected to VIOLET3D through a HDMI to 6C ANALOG converter

NOTES

- The converter shown in the figure has a video pass through HDMI output.

HDMI to 6Ch Analog Convertor

- i.e. Even if your audio source(Blue Ray ,DVD player etc..) has a single HDMI output, you can connect to your TV and to VIOLET3D simultaneously.