

# Hardware Installation Manual



## HISTORY

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## PREFACE

The Hardware Installation Manual provides a detailed set of instructions that have to be followed while installing hardware at a college. There are two types of connections involved in relaying a live class. One is through DTH and the other through broadband. In the QEEE set up we have a relay from both the DTH and the broadband, which is explained in the chapter: **DTH and Broadband Usage**.

In the next chapter: **Broadband Usage** there is a detailed description about the processes to be followed in case DTH fails.

## Audience

The target for this document will be the system administrators at every college and the studio personnel. This document aims to empower the target audience in setting up the required infrastructure at their end.

## List of Abbreviations

S.No	Abbreviation	Meaning
1	QEEE	Quality Enhancement in Engineering Education
2	PPT	Power Point Presentation
3	DTH	Direct to Home

## 1. DTH and Broadband Usage

The projection of the live class comes to the two projectors in the classroom. On Projector 1, the PPT from the computer will be shown and on Projector 2, the presenter video will be telecasted from the DTH.

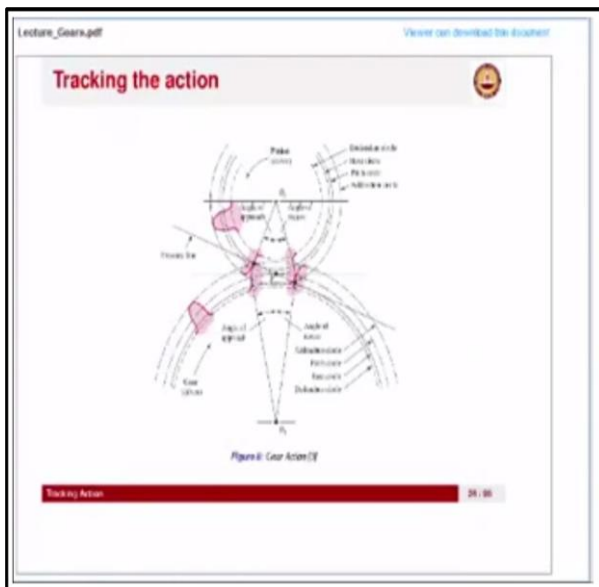


Figure 1: Projector 1- PPT from Computer



Figure 2: Projector 2- Presenter Video from DTH

### 1.1 How to Connect

1. Connect the VGA Out from Classroom Computer to VGA Splitter Input.
2. Connect the One of the VGA Splitter output to the Projector 1.
3. Connect another VGA Splitter output to the Projector 2.
4. Connect the DTH Set-top Box video out to the Projector 2 Video Input.
5. Connect the Speaker and Mic to the Audio Mixer as shown in the below Diagram.
6. Connect the Audio out from the set-top box to the Audio mixer as shown in the below diagram.

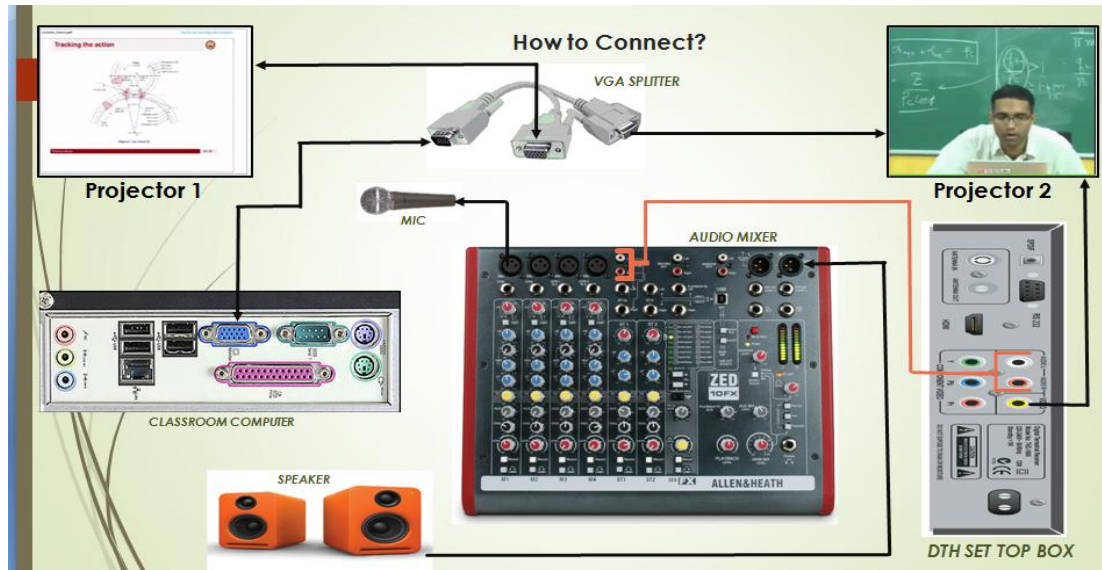


Figure 3: Connectivity in DTH and Broadband Usage



## 2. Broadband Usage

In certain cases there might be a DTH failure, following which the below mentioned instructions have to be followed.

The red coloured line (DTH connection) has to be removed and the green coloured line (For Audio from Classroom Computer) has to be connected as shown in Figure 4. Once this is done in Projector 1 the PPT will be displayed by the classroom computer and in Projector 2 the Presenter video will also be displayed through the classroom computer.

In Projector 2, the input source has to be changed from “video” to “computer”. Once you open the QEEE live class click on “Windows+p” and select the “Extend” option to extend your monitor. The “Presenter Video” will pop up. Drag this into Projector 2. The audio from the classroom computer will be transmitted through the audio mixer.

An elaboration of the connection in case of broadband usage is given in Figure 4 below.

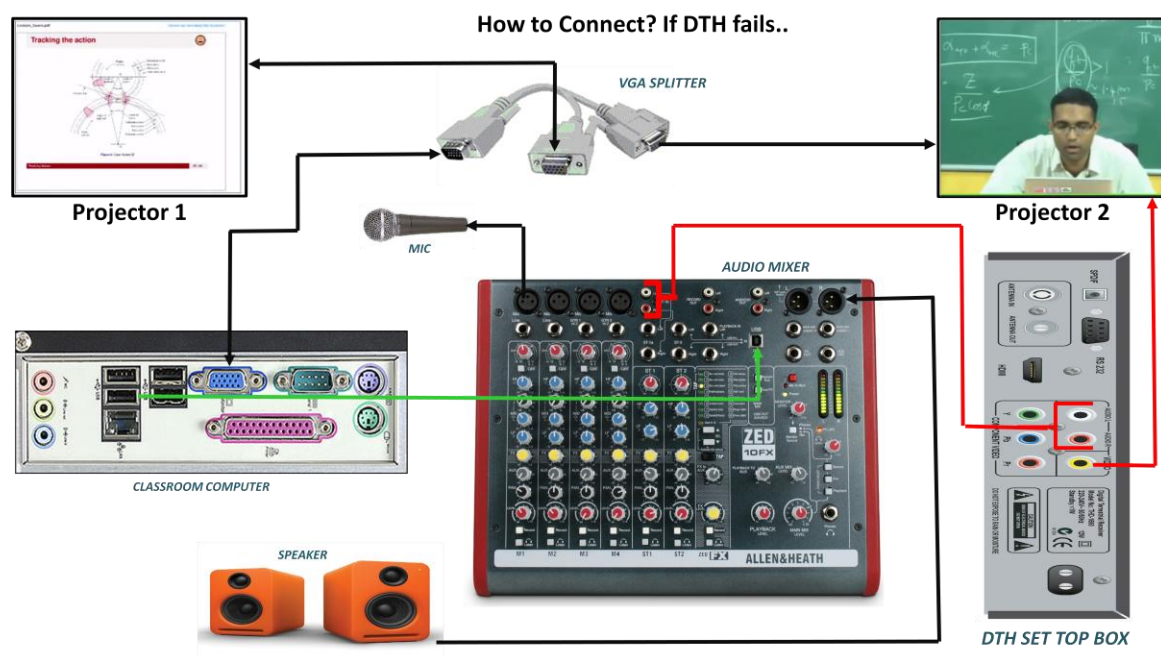


Figure 4: Connectivity in Broadband Usage

## Appendix

None