Nvis 6575 PAM Modulation and Demodulation Trainer is a useful training product for the students to help them understand the concept of Modulation and Demodulation. Pulse Amplitude Modulation is an effective technique used to transmit the information signal over a long distance without any distortion in it.

PAM is a form of signal modulation where the message information is encoded in the Amplitude of a series of signal pulses. Pulse Amplitude Modulation is a scheme, which alters the amplitude of regularly spaced rectangular pulses in accordance with the instantaneous values of a continuous message signal.

Features

- **Self contained Trainer**
- **Selectable 4 pulse frequencies on board**
- **On board Sine and Square Wave Generators**
- **Voice Communication using Dynamic Microphone and Speaker**
- **On Board Filter and AC Amplifier**
- **Functional Blocks indicated on board mimics**
- **Input-Output and test points provided on board**
- **Inbuilt DC Power Supply**
- **Compact Size**
- **Online product tutorial**

Scope of Learning

- To study the concept of Modulation and Demodulation
- To study the Sampled Waveform
- To study the Sample and Hold Waveform
- To study the Flat-Top Waveform
- To study the Voice Modulation and Demodulation

Technical Specifications

Pulse Output (frequency) :	8kHz, 16kHz, 32kHz, 64kHz (approximate)
Function Generators	
Sine wave :	(Gain Adjustable) 1kHz (12Vpp) 2kHz (4Vpp)
Square wave :	1kHz and 2kHz (6Vpp)
Low Pass Filter :	4th order BW Filter
Voice Communication :	Voice Link using Dynamic Mini Microphone and Speaker
AC Amplifier :	With adjustable gain control
DC Variable Output :	0-12V
Power Supply :	230V ±10%, 50Hz
Power Consumption :	3V A (approximate)
Dimensions (mm) :	W 350 x D 280 x H 55

Subject to change – Version 2.0