

**FACULTY OF ELECTRICAL
ENGINEERING
MARA UNIVERSITY OF
TECHNOLOGY**

**FINAL REPORT OF DIPLOMA PROJECT
KEU 380
DATE: 21nd MARCH 2003**

INFRARED HEAD PHONE

**NORMASLIZA BT. AD FAUZI
2000411800**

**ROSMAWATI BT. ABU
2000411626**

SUPERVISOR: PN. SITI NORAINI

ABSTRACT

Infrared headphone is suitable for use in a house, office and more. It is simple and wireless. Thus it is wireless, we still can use it for a long distances.

This infrared headphone consists of the main parts which is the transmitter, receiver and the load. Infrared ray is the form of rays between visible color and radio wave producing heat. The transmitter produces infrared signal that transmit by the infrared diode at the output. The infrared signal is aimed at the receiver and it will trigger its circuit.

At the receiver, the infrared signal will be picked-up by the photo-transistor. Then the transistor produce charge carriers at a rate depending on the rate arrival of a cadent radiation at the junction of transistor

Then if flow the receiver circuit the load headphone. We will have the same input and output signal which is audio form the radio or television.

ACKNOWLEDGE

In the name of Allah s.w.t the most gracious and merciful, thank to Allah s.w.t for giving us opportunity to complete this final project, project II (KEU 380).

We also want to thank all people who have been involved in completed this report. The first person we meant is our supervisor, Puan Siti Noraini for her patience and time to guide us through-out the project.

All the lecturer who involved directly or indirectly for the advises. Our friend who have shared and give on idea. They always gave their opinion when we faced a problem.

Lastly, UiTM because giving us as a student a change to get experience, to increase our knowledge and improve our skill.

CONTENTS

	PAGES
CHAPTER 1 INTRODUCTION	1
1.1 Introduction of Infrared System	2
1.2 Generally About Infrared Headphone	4
1.3 Report Explanation	6
CHAPTER 2 PROJECT INDETAIL	7
2.1 Infrared Headphone	8
2.2 Component List	12
2.3 Functional of Circuit	14
2.4 Basic Function of Each Component	16
CHAPTER 3 RESULTS	28
3.1 Result	29
3.2 Discussion of Result	30
3.3 Troubleshooting	31
CHAPTER 4 CONCLUSION	32
4.1 Conclusion	33
REFERENCES	34
GANT CHART	35
APPENDICES	

OBJECTIVES

The most important thing in doing a project is the objectives. So, our aim is to understand the operation of the circuit. From here we can increase our knowledge.

Then we have to successfully complete our project circuit and functions perfectly. By that we are improving our skill in searching, analyzing and interpreting the information, thus to broaden the use of the project.

Lastly is to make life tasks more easier and comfortable with latest technologies to explore. In doing all this, it will expose us in doing practical work and doing the report.