

**UNIVERSITI TEKNOLOGI MARA**

**LABVIEW APPLICATION FOR DECISION  
MAKING IN SURVEILLANCE SYSTEM  
ENVIRONMENT  
USING IMAGE ACQUISITION AND  
PROCESSING**

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## **ABSTRACT**

**In this paper, LabVIEW application is used for surveillance system that detect movement and class it into two : potential threat and non-potential thread. The system use Arduino Arducam as a video camera, connected wirelessly to the PC. The image processing is done in LabVIEW programming environment.**

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# CHAPTER 1

## INTRODUCTION

### 1.1 BACKGROUND

Home video surveillance equipment isn't just for the wealthy anymore. Anyone looking to protect their home, property, and family should consider buying home surveillance equipment. Once pricey equipment has become considerably lower in price, allowing homeowners of all budgets the ability to protect their spouses and children.

Before buying home surveillance equipment, decide on certain factors. Choose between an indoor or outdoor system, decide on a number of cameras, pick out desired features, and choose a storage system. Buying video surveillance equipment doesn't require a lot of technical knowledge but it does require a bit of research. Consumers can find home surveillance equipment in electronic stores and specialty monitoring shops. Online shoppers can turn to Internet retailers and online auction sites like eBay to buy video security systems

The need for video surveillance systems goes far beyond simple security. These days, video surveillance can also give you piece of mind by allowing you to monitor your home, keep an eye on your kids and monitor the inventory in your small business. Imagine the reassurance of being able to remotely access real-time or archived footage of your residence or business. And maybe you'll catch a neighborhood cat up to no good. But with all of these capabilities come many choices and options, and determining which system is the right one for you may seem tricky.