**Hardware devices used in a CCTV System;**

**Hardware - Inputs:**

1. How might SecuritechTV use the following input devices when setting up CCTV for a customer?

|  |  |
| --- | --- |
| ***Inputs:*** | **How may Securitech use the device?** |
| IP Camera | Input video data into the system of the area that they can see |
| Mouse | To move the cursor round and access files |
| Keyboard | To type and sort data |
| Joystick | To play space invaders |
| Microphone | To input sound data from the area that is being watched |

**Hardware - Outputs:**

2. How might SecuritechTV use the following output devices, when setting up TV for a customer?

|  |  |
| --- | --- |
| ***Outputs:*** | **How may Securitech use the device?** |
| Monitor / Screen | To view the video |
| Speakers | To output the sound that the microphone picks up |
| Printer | To print images from the video |

3. Find an image of each device.

|  |  |  |
| --- | --- | --- |
|  |  |  |
| IP Camera | Mouse | Keyboard |
|  |  |  |
| Joystick | Microphone | Monitor / Screen |
|  |  |  |
| Speaker | Printer |  |

4. Fill in the gaps below:

The \_data\_ recorded on a \_CCTV\_ system is stored on \_secondary\_ storage, so that recordings can be used as evidence if needed. When Securitech installs a CCTV system for a customer they install a \_desktop pc\_ that operates the CCTV system

CCTV secondary desktop pc data

**Storage:**

The recordings from the CCTV (once installed by SecuritechTV) will be initially stored on a hard drive.

5. From the scenario, where might the footage be stored?

* Magnetic tape off site
* Hard disk drive on site

6. What is a solid-state drive (SSD)?

A hard drive with no moving parts.

7. What are the benefits / drawbacks of using a solid-state drive?

|  |  |
| --- | --- |
| **Benefits** | **Drawbacks** |
| 1. fast | 1. expensive |
| 2. durable | 2. low storage capacity |

8. What is a hard disk drive (HDD)?

A HDD magnetically writes to a spinning platter.

9. What are the benefits / drawbacks of using a hard disk drive?

|  |  |
| --- | --- |
| **Benefits** | **Drawbacks** |
| 1. large storage | 1. slower |
| 2. inexpensive | 2. can break easily |

**Hardware choices and considerations**

10. SecuritechTV could install either SSD or HDD for a client – what would they need to do before installing one or the other?

See how much they are going to spend, look at what they will be storing and how much they are going to store, find out whether the data will be transported or stay stationary.

11. If the customer wants video recordings to be high quality, what will this mean?

They need more storage as the file size will be larger

12. Why is the consideration of file types and how the CCTV footage is stored in important?

Different file types will compress the data by different amounts so it is important to be wary of the storage.