UNIT –LASER TECH MEASUREMENT

**Introduction :**

The way we dress determines our personality and confidence; Such this cannot be taken lightly;

A fit person is always looked at with awe. When a person is at a mall or at a clothing store, He certainly is there to buy clothes that fit him. Imagine if you walk into a store a find a dress that may be a shirt, t- shirt , jeans or anything which is really good that you want to buy it so badly . But as soon as you look at it and find out that its not available in yours particular size or else its too long you either buy it with dissatisfaction or leave it .

We have found a way to find a dress that fits you so perfectly that its fitness is unparallel to any measuring techniques . Imagine if you could buy any dress in a clothing store and be sure that it fit you . And you could even buy with confidence that it is gonna fit me no matter what . Imagine a place that is just for you where you can be sure of buying anything .Imagine taking the entire tailoring industry digital.And also the entire readymade industry making clothes ready just for you and only you for your specific requirements as slim fit, regular fit, baggy fit

That is what we are trying to achieve . A perfect fitting clothes for each and every one. So that they can achieve perfect fitness and confidence

To scan the whole body we are in need of actual laser measurement system connected to integrated with embedded c,c++,php,java programs to analyse your body and to calculate your body shape and size to bring out an 3d analysis of your body

**Concept:**

Since scanning a whole body cannot be done in a few days and is a tedious process we are focusing on doing it in a small scale so that it can be understood that it is practically possible to combine it to do it in a large scale to scan the whole body and to accomplish a perfect 3d scan of your body and to take measurements of your body

To do it in a small scale we have decided to Measure just the circumference of your wrist. Using Laser measurement techniques which can be further Developed to determine the measurement of your Whole body

Consider a circle with a know radius and circumference . To determine the distance, place four laser packaging systems in the circle , when there is no obstruction during the measurement process the distance measured by it is termed as default in the program .

If your hand or any other object is placed in that circle during the measurement process, the measured value gets deviated from the default measured value hence the disturbed value is notes form the four lasers such that we know the exact position of the dot on a 3d scale ,the 3d analysis gives a perfect determination of the object placed inside the laser system. In this system we can calculate the diameter as well as 3d analysis of any object.

The horizontal and vertical dots are connected to determine the diameter from there we can determine the circumference of your wrist or any other cylindrical object placed in it.

3d scanning:

3d scanning is a fast and accurate method of putting physical measurements of an object onto the computer in an organized manner,is also called as 3d scan data.

3d scan data is used as a bridge between physical objects and modern manufacturing,this can be achieved by converting data into computer aided design (CAD)models.

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