



REPUBLIK INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202280893, 29 Oktober 2022

Pencipta

Nama : **Umi Salamah, S.Si., M.Sc., Qoirunnisa dkk**
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Kewarganegaraan : Indonesia
Jenis Ciptaan : **Karya Rekaman Video**
Judul Ciptaan : **OXIPHYM: Oximeter As A Detector Of Oxygen Saturation In
Blood Based On Arduino IDE**

Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 29 Agustus 2022, di Yogyakarta

Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.

Nomor pencatatan : 000396637

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



a.n Menteri Hukum dan Hak Asasi Manusia
Direktur Jenderal Kekayaan Intelektual
u.b.
Direktur Hak Cipta dan Desain Industri

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Disclaimer:

Dalam hal pemohon memberikan keterangan tidak sesuai dengan surat pernyataan, Menteri berwenang untuk mencabut surat pencatatan permohonan.

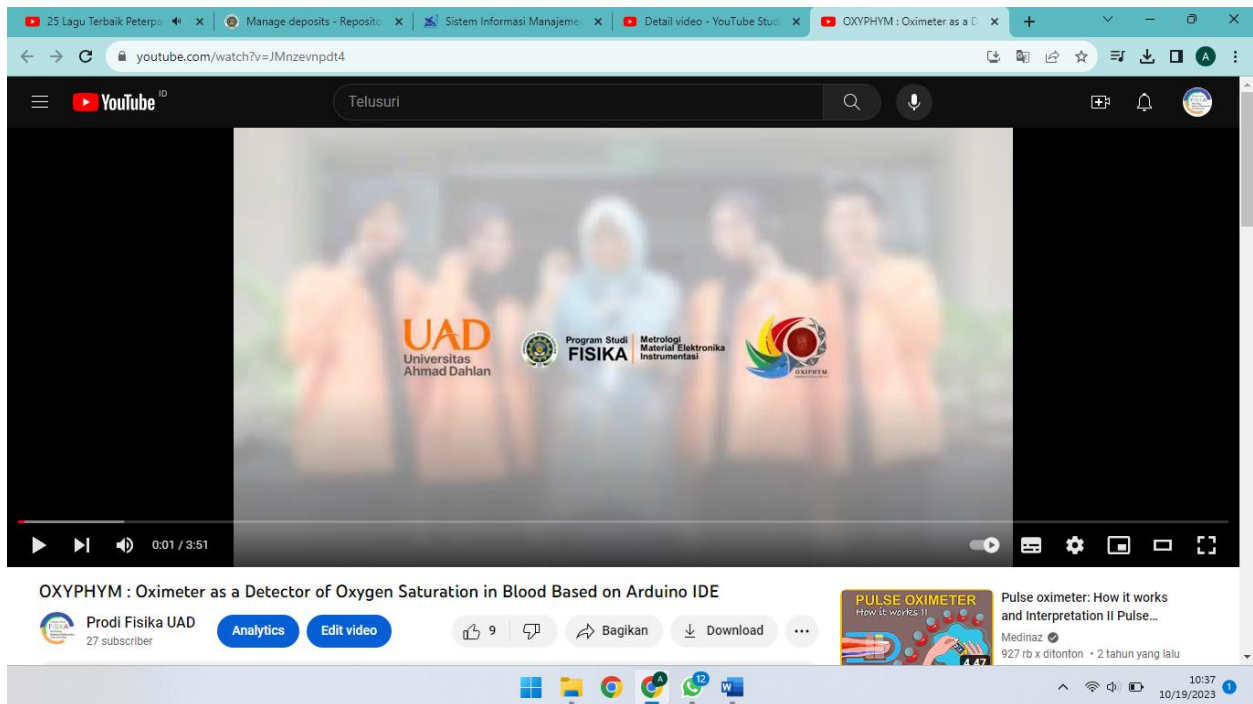
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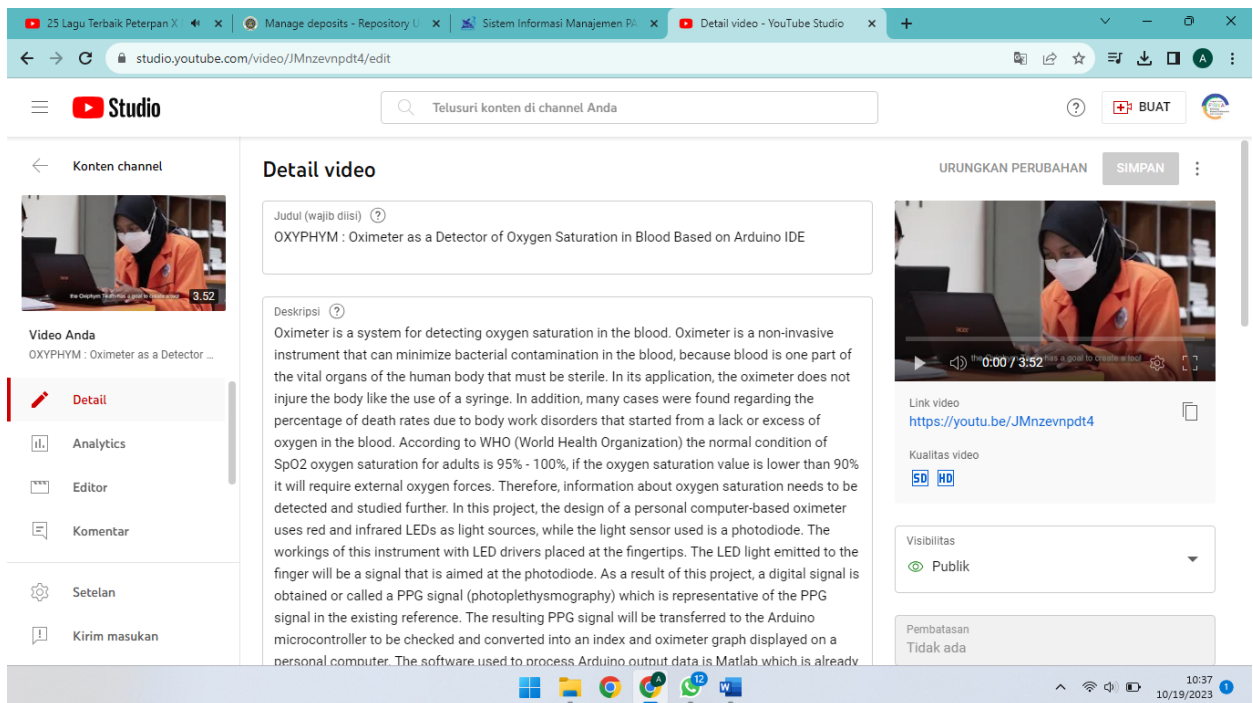


Karya Ilmiah – Hasil Rekaman Video

OXYPHYM: Oximeter As A Detector Of Oxygen Saturation In Blood Based On Arduino IDE



The screenshot shows a YouTube video player interface. The video title is "OXYPHYM: Oximeter as a Detector of Oxygen Saturation in Blood Based on Arduino IDE". The channel is "Prodi Fisika UAD" with 27 subscribers. The video has 9 likes and is available for download. The video player shows a blurred image of a group of people, with logos for UAD (Universitas Ahmad Dahlan), Program Studi FISIKA, and Metrologi Material Elektronika Instrumentasi. The video progress is at 0:01 / 3:51.



The screenshot shows the YouTube Studio interface for the video. The video title is "OXYPHYM: Oximeter as a Detector of Oxygen Saturation in Blood Based on Arduino IDE". The video description is as follows:

Deskripsi

Oximeter is a system for detecting oxygen saturation in the blood. Oximeter is a non-invasive instrument that can minimize bacterial contamination in the blood, because blood is one part of the vital organs of the human body that must be sterile. In its application, the oximeter does not injure the body like the use of a syringe. In addition, many cases were found regarding the percentage of death rates due to body work disorders that started from a lack or excess of oxygen in the blood. According to WHO (World Health Organization) the normal condition of SpO2 oxygen saturation for adults is 95% - 100%, if the oxygen saturation value is lower than 90% it will require external oxygen forces. Therefore, information about oxygen saturation needs to be detected and studied further. In this project, the design of a personal computer-based oximeter uses red and infrared LEDs as light sources, while the light sensor used is a photodiode. The workings of this instrument with LED drivers placed at the fingertips. The LED light emitted to the finger will be a signal that is aimed at the photodiode. As a result of this project, a digital signal is obtained or called a PPG signal (photoplethysmography) which is representative of the PPG signal in the existing reference. The resulting PPG signal will be transferred to the Arduino microcontroller to be checked and converted into an index and oximeter graph displayed on a personal computer. The software used to process Arduino output data is Matlab which is already

The video player shows a thumbnail of a person working on a laptop. The video progress is at 0:00 / 3:52. The video is set to "Publik" visibility and has no restrictions.

Link video : <https://www.youtube.com/watch?v=JMnzevnpdt4>