

#### クラボウの ケーブル/コネクタ自動化への取り組み

Work for Robot Business Using KURASENSE.



クラボウ 環境メカトロニクス事業部

KURABO Advanced Technology Division







#### KURABO

# **3D vision sensor specialized for cables.**

## **Developed by KURABO.**









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#### **Specification Kurasense-C100**

Advanced

Division

COMPANY

Technology





\*All product specifications are subject to change without notice.

### Hot to connect with the robot.



## **Recognition and Grasp of Flat cables** (2019)





## Cable recognition method.

#### KKURABO

Kurasense's High-speed 3D Recognition technology







### **Kurasense Robot System**





**Connect anything with TCP/UDP !** 









# Kurasense robot system Case study





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#### **Robot movie**

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#### KIRABO



#### High-speed robot motion (2019)







## **Configuration of robot system**



### Please in slow motion





#### **Recognition and Grasp of "Flat cables"** (2019)







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## "Flat cable assembly" Configuration



Kurasense

Kurasense – C100F

#### **EPSON** robot

Robot : C4 series Force sensor : S250N









### For Smart phones (2021)

KIRABO

Confidential

## KKURABO

#### スマートフォン向け超小型コネクタ ロボットによる自動組立て





## **Processing Optical fiber (2020)**









#### Bundle of cables (2020)





This robot doesn't use a camera and 3D sensor.





#### **Recognition and Grasp of "Connectors"** (2021)



## KKURABO

角形コネクタ把持挿入 ロボットによる自動組立て





Thank you!



Please look at WEB pages.





KIKURABO

# 감사합니다.



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