

Flexible Vibrating Disk

CK-MT200



Shenzhen CK Machine Vision Technology Co., Ltd.

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1. Key Features

➤ Versatility

Suitable for bulk material sorting and feeding of 99% of small components in industrial automation production, including special-shaped components and delicate, damage-prone components; multiple motion modes cover all vibration needs for visual feeding applications.

➤ Fast Vibration Response

Vibration response time is a few milliseconds, and vibration dispersion can be completed in as short as 100-1000ms to achieve efficient part positioning.

➤ Accurate Positioning

Standard integrated backlight structure, combined with Ckvision visual positioning technology, easily achieves accurate positioning and grabbing of parts.

➤ Flexible and Efficient Control

Vibration frequency, vibration intensity, and light source brightness can all be adjusted in 0~255 levels, ensuring system flexibility and achieving high-precision stable control.

➤ High Reliability and Durability

Based on frequency resonance fitting technology, there are no other mechanical power sources or transmission mechanisms. High-quality voice coil motors and high-performance light sources are used to ensure reliability and durability.

➤ Easy Integration and Configuration

Ckvision flexible vibrating disk parameters are configured through software with a graphical interface, making it easy to configure and integrate. It is suitable for various mainstream PLCs and robotic vision system production systems in industrial automation equipment.

2. Specification Parameters

Model	CK-MT200
Overall Dimensions (mm)	328*232*159 (L/W/H)
Inner Tray Dimensions (mm)	265*130*30 (L/W/H)
Total Weight	About 12.5kg
Weight of Single Reversible Material	15g
Working Voltage	DC 24V
Maximum Current	7A
Effective Working Frequency	20~70Hz
Vibration Modes	Up/down/left/right single direction, up-down

	centering, left-right centering, flipping and dispersing
Light Source	Standard backlight, 0~255-level PWM adjustment
Maximum Load	About 2.5kg
Communication Method	RS232 Serial Communication
Vision System	Ckvision Positioning System (optional)
Operating Noise	≤70dB

3. Development Examples

Ckvision flexible vibrating disk provides software secondary development interfaces, communication protocols, and simple development Demo examples.

名称	修改日期	类型
Debug	2024/10/24 18:17	文件夹
res	2024/10/24 18:17	文件夹
ReadMe.txt	2023/5/19 22:33	文本文档
resource.h	2023/7/9 9:57	H 文件
SaveData.ini	2023/7/13 23:05	配置设置
SerialPort.cpp	2023/5/19 22:33	C++ 文件
SerialPort.h	2023/5/19 22:33	H 文件
SerialPort_Control.cpp	2023/5/19 22:33	C++ 文件
SerialPort_Control.h	2023/5/19 22:33	H 文件
SerialPort_Control.rc	2024/10/8 23:34	Resource Script
SerialPort_Control.vcxproj	2023/5/21 22:54	VC++ Project
SerialPort_Control.vcxproj.filters	2023/5/19 22:33	VC++ Project Fil...
SerialPort_Control.vcxproj.user	2023/5/19 22:33	Per-User Project...
SerialPort_ControlDlg.cpp	2024/10/9 9:08	C++ 文件
SerialPort_ControlDlg.h	2023/6/15 21:01	H 文件
stdafx.cpp	2023/5/19 22:33	C++ 文件
stdafx.h	2023/5/19 22:33	H 文件
targetver.h	2023/5/19 22:33	H 文件
ur.cpp	2023/5/19 22:33	C++ 文件

4. Dimensions

