

Machine vision for closed-loop robot operation

Operating Procedure

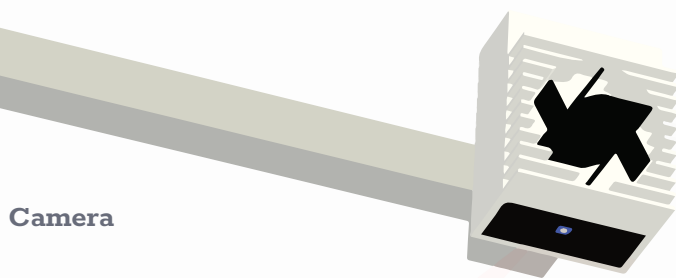
power on

scan for images 1) connect to WiFi or insert an empty USB drive 2) begin scanning 3) upload images

install algorithm 1) download algo.so file 2) wait for new algorithm to be installed

begin production 1) monitor output pins 2) begin scanning 3) monitor from any device

maintain 1) download NOWING maintenance file 2) wait for status indicator



Camera

Focus: 3.8 mm

Field of view: 70 degrees

Range: 15 cm - infinity

Distortion: <1%

Image scan resolution and speed: 2592 x 1936 7 fps
1920 x 1080 12 fps

Inputs & Outputs

Input:

5V 2A power input

SNAP pin

service port (serial)

Output:

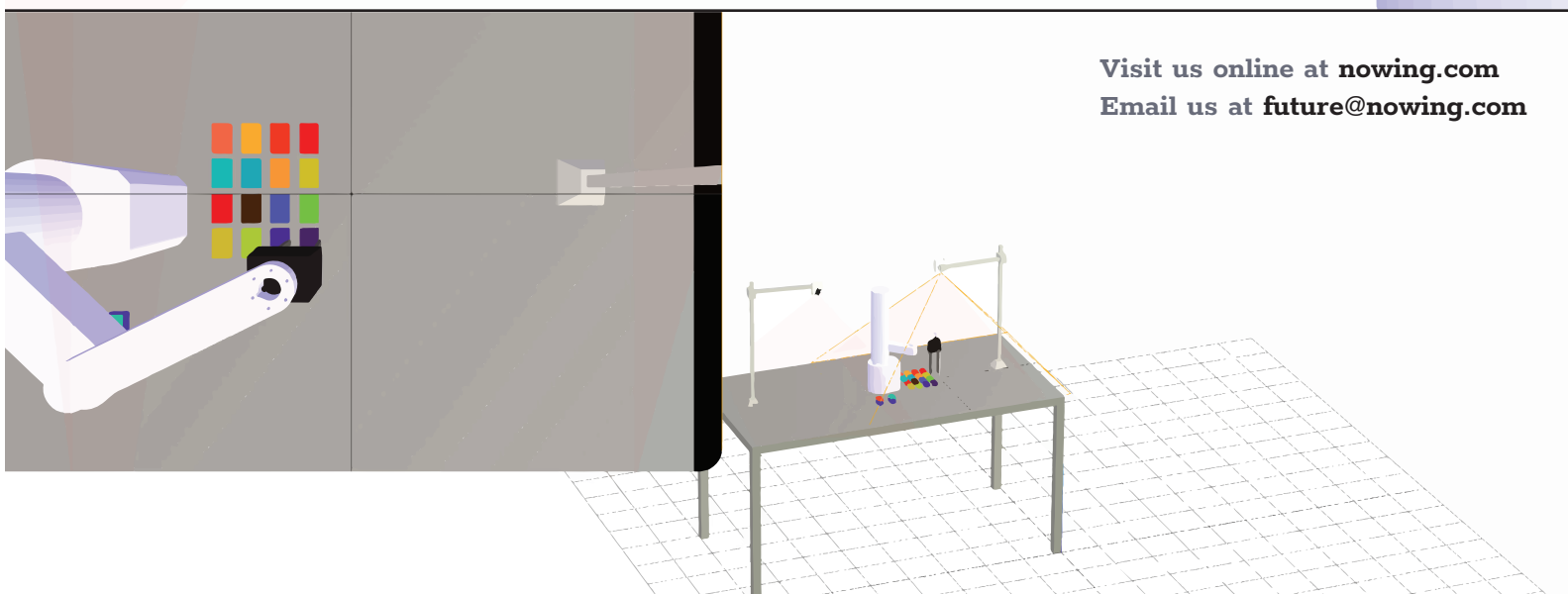
STATUS pin

OK pin

NG pin

HDMI

USB & WiFi enabled



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