

Phi

Ultrasound Surface Cleaning Camera for light contaminants

Product Code: 402-01-AXXX

Product Specification Datasheet

Features

- Automatic Cleaning
- Low power consumption
- De-Icing
- Rapid Droplet removal
- Discrete housing



Product render – delivered product may vary.

Product description

The Phi ultrasonic cleaning Camera is constructed from Anodised aluminium, with state-of-the-art Ultrasound Surface Cleaning Technology integrated to maintain a clear image through a wide scope of environmental challenges.

Auto-detection technology means the device can recognise it is contaminated and clean the glass before you even notice.

The Phi Camera is suitable for a variety of applications such as: surveillance, Process monitoring, machine vision, autonomous driving.

Use Phi to test the viability of Ultrasound Cleaning Technology in your application area, and we can collaborate to create a bespoke solution for you.

General Specification

Type	Ultrasonic Cleaning Camera
Colour	Black
Material	Anodised Aluminium, Nylon
Water resistance	Showerproof (uncertified)
Wi-Fi	No
Working Temperature	-20C to 70C

Cleaning Specification

Time to clean (water only)	2s
Minimum Clearable Droplet Size (water)	0.8mm
Proven contaminants	Water, ice, Wet Mud, Machine coolant, *dry mud, *Insect, *(water required for effective cleaning)

Mechanical

Dimensions (body only) / mm	54 x 54 x 102, W x H x L
Weight (PSU not included) ± 0.1kg	1kg
Mounting type	User mounted, mounts available to purchase from Echovista.
Conduit Length	2m
Conduit diameter	32mm nominal
Conduit fixing	M32x1.5

Electrical Specification

Connection (power)	2 pin molex
Connection (control)	USB A
Connection (camera)	USB A
Supply Voltage	24V
Input Power (peak)	96W
Input power (Auto Cleaning – Idle)	4W

Camera Specification

Pixel number	16.0MP
Image Format	YUB/MJPG
Data format	4656x3496/ 4208x3120/ 4000x3000/3264x2448/ 2592x1944/2320x1744/2304x1728/ 2048x1536/1920x1080/1600x1200/1280x960/1280x720
Frame Rate	4656x3496 at10fps/4208x3120 at10fps/4000x3000 at 10fps/3264x2448 at 10fps/2592x1944 at10fps/2320x1744 at30fps/2304x1728 at30fps/2048x1536 at30fps/1920x1080 at30fps /1600x1200at30fps/1280x960at30fps/1280x720at30fps
Working current	5V 240mA
AF Range	5CM to +∞

Other Notes

Tap water	Use of tap water can cause limescale build up on the glass, leading to reduced performance and system damage. Using tap water is not recommended. If you experience limescale build up. Use a diluted household limescale remover and a microfibre cloth to gently clean the glass face
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Dimension drawings

