

# IS SERIES



**Inspection Video Microscopes**

## IS-02 - Overview

Advanced inspection system suitable for intensive use, ideal for video inspection in quality control of electronics, mechanics, and other industrial applications.

IS-02 includes the C-HAF **real-time full HD auto-focus camera** with **relevant zooming capabilities** (optical zoom is 1x...14x, electronic zoom is 1x...6x).

Crystal clear 1080p live view is shown through a large HD monitor, with incredibly fast connection (60 fps). Its angle of view is **fully adjustable** and it enables **instant focus** in less than 1 sec. with no need to constantly adjust lens position. In addition, the working distance goes to infinity, making it the **recommended solution to inspect multi-layered objects**.

All functions are controlled directly from the screen via a wireless mouse. Images and videos can be saved on the SD card and easily transferred on any device. The system is completed by the SZ-STLX **boom stand** with a **special joint to enable any rotation** (transversal and longitudinal): the longitudinal movement is through the sliding of the horizontal rail (lockable); whilst also the overall height is both adjustable and lockable.



Reduce inspection time with real-time focus from any angle



# IS-02 - Technical Specifications



## IS-02

### HDMI MONITOR

Type	LCD screen 360° rotating, freely inclinable for ergonomic vision
Size	11,5"
Power supply	12V / 2,5A

### CAMERA

HDMI camera resolution (MP)	2
Camera resolution (n° of pixels: W x H)	1920x1080
HDMI signal output	Yes
Trigger signal output	Yes
Sensor size	1/2.8"
Sensor technology	CMOS
Sensor type	SONY EXMOR
Optical zoom	1x-14x
Digital zoom	1x-6x
Rolling shutter	Yes
Autofocus	Yes
Image format	16/9
Pixel size (mm)	2.9x2.9

Frame rate full resolution (fps)	60@1920x1080
Camera power	5V 2A
Dimensions (mm)	88 x 72 x 125
Weight (Kg)	0.57

### STAND

Type	Coarse simple overhanging
Coarse total travel (mm)	50
Adjustable tension	Yes
Head holder internal diameter (mm)	76
Pillar diameter (mm)	32
Maximum sample height (mm)	270 (from bench)
Total height (mm)	430
Base height (mm)	58
Base width (mm)	210
Base depth (mm)	255
Horizontal arm (mm)	790
Product weight (kg)	16.3

### ACCESSORIES

Accessories Included:	Wireless mouse, 30 cm HDMI cable 8 GB micro SD, Power supply
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No need to constantly re-adjust the lens focus

On-board controls and cross grid

Working distance is between 10 cm and infinity, making it the ideal solution to inspect multi-layered and large objects

1/2.8" CMOS 2MP camera with powerful 1x-14x optical zoom (plus electronic zoom)

High-performance boom stand with special joint for customized camera positioning

Sliding horizontal rail for longitudinal positioning; adjustable longitudinal limit; adjustable and lockable height

Sensor's main features are the high sensitivity and incredible color fidelity: save money (no need of external illuminators or ring lights)

Wireless mouse and SD card are included



## IS-03 - Overview

Advanced inspection system suitable for intensive use, ideal for video inspection in quality control of electronics, mechanics, and other industrial applications.

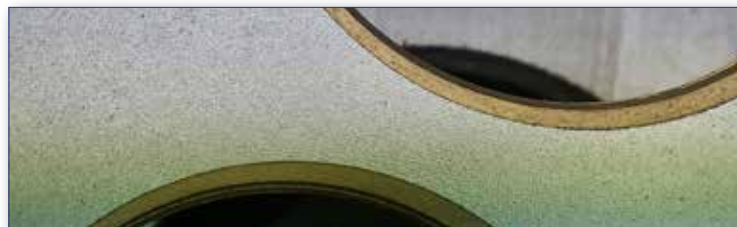
IS-03 includes the C-HAF **real-time full HD auto-focus camera** with **relevant zooming capabilities** (optical zoom is 1x...14x, electronic zoom is 1x...6x).

Crystal clear 1080p live view is shown through a large HD monitor, with **incredibly fast connection** (60 fps). Its angle of view is **fully adjustable** and it enables **instant focus** in less than 1 sec. with no need to constantly adjust lens position. In addition, the working distance goes to infinity, making it the **recommended solution to inspect multi-layered objects**.

All functions are controlled directly from the screen via a wireless mouse. Images and videos can be saved on the SD card and easily transferred on any device. The system is completed by the **table clamping SZ-STL5 highly versatile flexible arm stand**, 360° rotating, ideal for high and large samples and on every bench thanks to its compact footprint, saving valuable space on the bench. A **wall mounting system** is also included.



Reduce inspection time with real-time focus from any angle



# IS-03 - Technical Specifications



## IS-03

### HDMI MONITOR

<b>Type</b>	LCD screen 360° rotating, freely inclinable for ergonomic vision
<b>Size</b>	11,5"
<b>Power supply</b>	12V / 2,5A

### CAMERA

<b>HDMI camera resolution (MP)</b>	2
<b>Camera resolution (n° of pixels: W x H)</b>	1920x1080
<b>HDMI signal output</b>	Yes
<b>Trigger signal output</b>	Yes
<b>Sensor size</b>	1/2.8"
<b>Sensor technology</b>	CMOS
<b>Sensor type</b>	SONY EXMOR
<b>Optical zoom</b>	1x-14x
<b>Digital zoom</b>	1x-6x
<b>Rolling shutter</b>	Yes
<b>Autofocus</b>	Yes
<b>Image format</b>	16/9
<b>Pixel size (mm)</b>	2.9x2.9
<b>Frame rate full resolution (fps)</b>	60@1920x1080

<b>Camera power</b>	5V 2A
<b>Dimensions (mm)</b>	88 x 72 x 125
<b>Weight (Kg)</b>	0.57

### STAND

<b>Type</b>	Coarse, Pantograph, with table and wall clamps
<b>Coarse total travel (mm)</b>	50
<b>Adjustable tension</b>	Yes
<b>Head holder internal diameter (mm)</b>	76
<b>Pillar diameter (mm)</b>	35
<b>Total height (mm)</b>	327
<b>Total width (mm)</b>	300
<b>Total depth (mm)</b>	800
<b>Horizontal arm (mm)</b>	737
<b>Product Weight (kg)</b>	5.1

### ACCESSORIES

<b>Accessories Included:</b>	Wireless mouse, 30 cm HDMI cable, 8GB micro SD and power supply
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**No need to constantly re-adjust the lens focus**

1/2.8" CMOS 2MP camera with **powerful 1x-14x optical zoom** (plus electronic zoom)

**On-board controls** and cross grid

Working distance is **between 10 cm and infinity**, making it the ideal solution to inspect multi-layered and large objects

Sensor's main features are the **high sensitivity** and **incredible color fidelity**: save money (no need of external illuminators or ring lights)

**Small footprint to save valuable space** on the bench; **table-clamp and wall-mount**

**Freely orientable arm and joint**

Wireless mouse and SD card are included

## Real-time Full HD Auto-Focus Inspection Camera

**OPTIKA C-HAF** is a real-time full HD auto-focus inspection camera, with 2 MP resolution to view crystal clear **1080p** images/videos on HD monitor, through HDMI connection at **60 fps**. Its angle of view is **fully adjustable**.

Achieve **instant focus** without the need to constantly adjust your lens with the incredibly fast focusing system (acquisition time is lower than 1 sec.) without the inconvenience of having to constantly re-adjust the lens focus.

Working distance is between 10cm and infinity, making it the ideal solution to inspect multi-layered objects, extremely quickly. The camera is equipped with **1x-14x optical zoom** and 1x-6x electronic zoom.

All functions are controlled **directly from the screen**, with the support of mouse, and images and videos can be directly acquired on SD card (mouse and SD card are included).

### Main functions are:

- Possibility to perform automatic or manual white balance, independently setting RGB parameters for a perfect color reproduction
- Choose between automatic or manual exposure
- With HDR function, a sequence of images is captured at different exposures, and they are combined into a single image
- Trigger function allows the connection with an external controller and the file acquisition is possible with a determined sequence
- Possibility to set horizontal and vertical lines, in different colors and positions, to generate a custom grid directly on the HDMI screen

OPTIKA C-HAF comes with fixing holes to be connected with "custom" supports or brackets.

It is available also combined with a boom stand (as **IS-02**) or a compact stand with table clamp or wall-mount (as **IS-03**).



Reduce inspection time with real-time focus from any angle

# C-HAF - Technical Specifications

No need to constantly re-adjust the lens focus.



1/2.8" CMOS 2MP camera with **powerful 1x-14x optical zoom** (plus electronic zoom)

## C-HAF

### CAMERA

<b>HDMI camera resolution (MP)</b>	2
<b>Camera resolution (n° of pixels: W x H)</b>	1920x1080
<b>HDMI signal output</b>	Yes
<b>Trigger signal output</b>	Yes
<b>Sensor size</b>	1/2.8"
<b>Sensor technology</b>	CMOS
<b>Sensor type</b>	SONY EXMOR
<b>Optical zoom</b>	1x-14x
<b>Digital zoom</b>	1x-6x
<b>Rolling shutter</b>	Yes
<b>Autofocus</b>	Yes
<b>Image format</b>	16/9
<b>Pixel size (mm)</b>	2.9x2.9
<b>Frame rate full resolution (fps)</b>	60@1920x1080
<b>Camera power</b>	5V 2A
<b>Dimensions (mm)</b>	88 x 72 x 125
<b>Weight (Kg)</b>	0.57

Sensor's main features are the **high sensitivity** and **incredible color fidelity**: save money (no need of external illuminators or ring lights)



**Working distance is between 10 cm and infinity**, making it the ideal solution to inspect multi-layered and large objects

**On-board controls** and cross grid



Wireless mouse and SD card are included





v 1.4.0 - OPTIKA reserves the right to make corrections, modifications, enhancements, improvements and other changes to its products at any time without notice.

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## Headquarters and Manufacturing Facilities

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