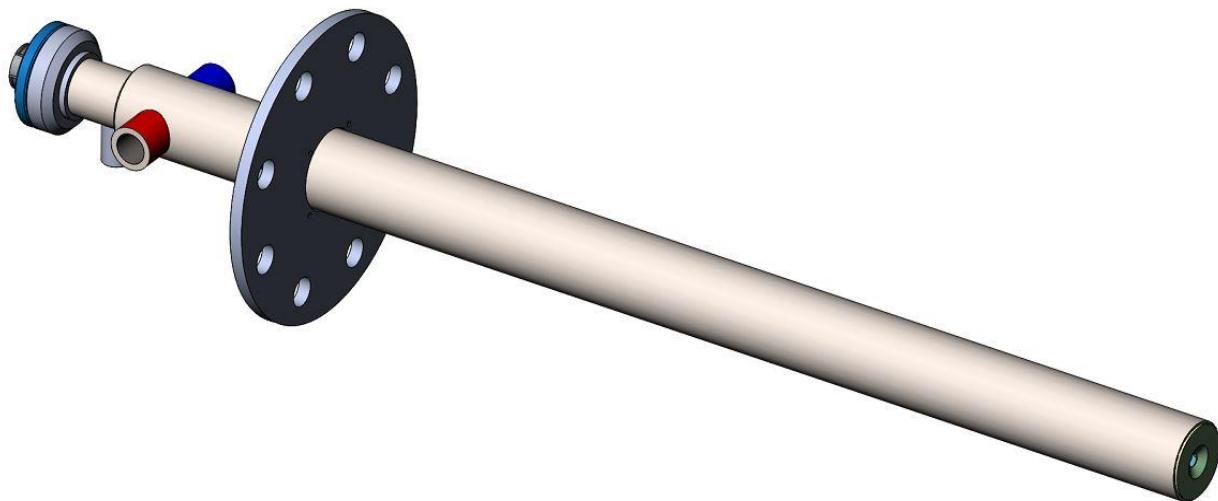




Le Spécialiste de l'Endoscopie Haute Température

USER MANUAL AFF 20042



HTN - Ø48 - Lu 700

CAMERA IP - CESYCO V0

7 Chemin de Vaubesnard – Bâtiment B – 1^{er} Etage -91410 DOURDAN - FRANCE
Tél +33 (0) 160 810 500 - Fax + 33 (0) 160 812 884 - info@cesyco.com

S.A.R.L. au capital de 40 000 € / Siret 450 338 652 00024 / APE 3320C / TVA FR 65 450 338 652



Le Spécialiste de l'Endoscopie Haute Température

SUMMARY

| | |
|---|---------|
| LIST OF CONTENTS | File 1 |
| WATER AND AIR CONNECTIONS | File 2 |
| ELECTRICAL CONNECTIONS | File 3 |
| VIDEO MODULE DISASSEMBLING | File 4 |
| VIDEO MODULE UNIT CHANGE | File 5 |
| CESYCO CAMERA V0 PICTURE ADJUSTING | File 6 |
| NETWORK SETTINGS | File 7 |
| IP CAMERA CONNECTION INSTRUCTIONS | File 8 |
| MAINTENANCE HTN | File 9 |
| SUPPLIED TECHNICAL DATA FOR ENDOSCOPE | File 10 |

7 Chemin de Vaubesnard – Bâtiment B – 1^{er} Etage -91410 DOURDAN - FRANCE
Tél +33 (0) 160 810 500 - Fax + 33 (0) 160 812 884 - info@cesyco.com

S.A.R.L. au capital de 40 000 € / Siret 450 338 652 00024 / APE 3320C / TVA FR 65 450 338 652



Le Spécialiste de l'Endoscopie Haute Température

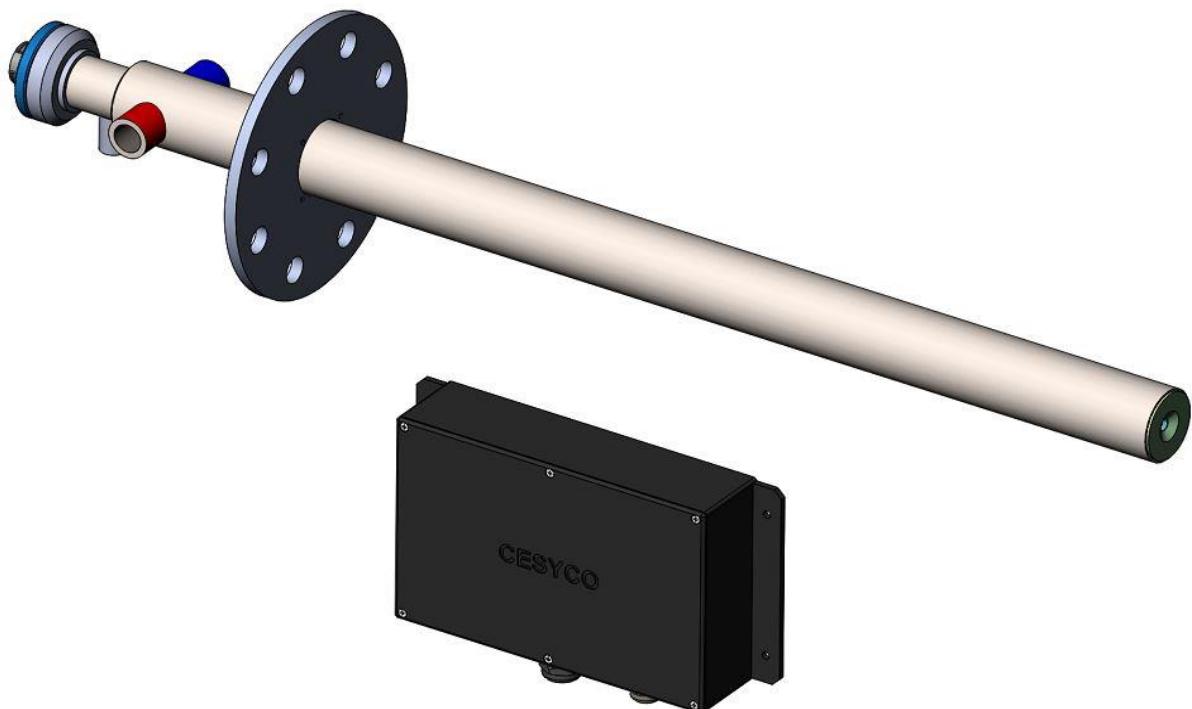
LIST OF CONTENTS

348E711 - Water jacket Ø48 V0 AE 3E

348E822 - Video module Ø48 V0 Camera CESYCO 3E

800E029 - Bride de fixation endoscope Ø48 DN65

750E450 - Electrical box



7 Chemin de Vaubesnard – Bâtiment B – 1^{er} Etage -91410 DOURDAN - FRANCE
Tél +33 (0) 160 810 500 - Fax + 33 (0) 160 812 884 - info@cesyco.com

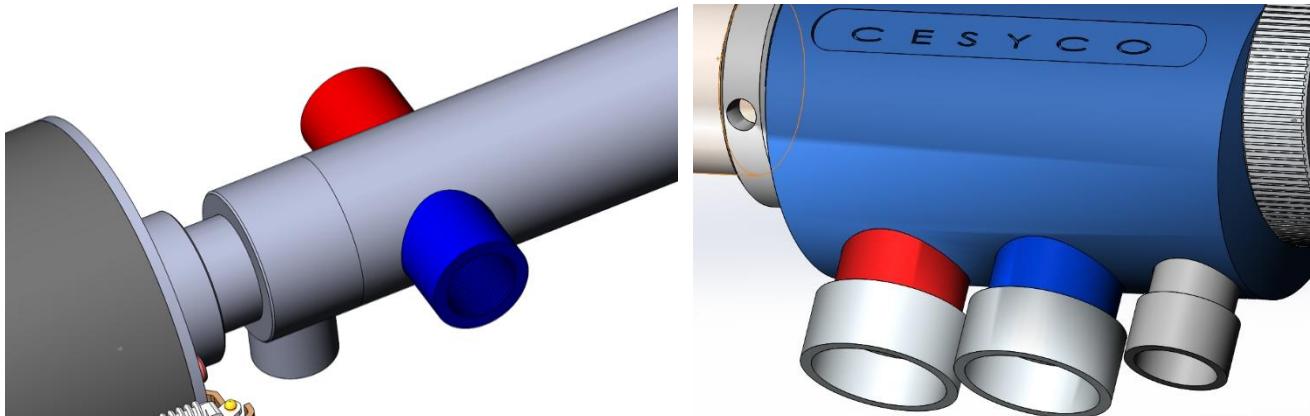
S.A.R.L. au capital de 40 000 € / Siret 450 338 652 00024 / APE 3320C / TVA FR 65 450 338 652

WATER AND AIR CONNECTIONS

The technical specifications for the fluids are given in Appendix 1..

- The water supply of the endoscope must be connected to the **BLUE** connection.
- The water return must be connected to the **RED** connection.
- The air supply must be connected to the last connection **WITHOUT COLOR**.

Pictures below show different example of connections:



Note :

- Your equipment can be different than pictures
- The position of each connection can be different according to different models

WARNING: **The hoses must be carefully drained of any impurities contained therein before connecting to the air and water network.**

ENDOSCOPE ELECTRICAL CONNECTION

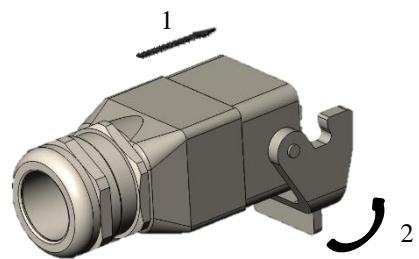
Depending of your equipment, electrical connection on the endoscope can be realize by different connector as below:



JAEGER



LEMO



HARTING

- Connect your connecting cable to the endoscope on one side and to the electrical box on the other side (or directly on your installation depending on the model).

Note :

- Your equipment can be different than pictures
- The position of each connection can be different according to different models

DISASSEMBLY OF THE VIDEO MODULE

- Depending of your model, unscrew the 4 screws, lock nut or both.
-



- extract the video module from the water jacket.
- Connect the module on a computer with the cable to see the operations.



Note :

- Your equipment can be different than pictures depending of your model.

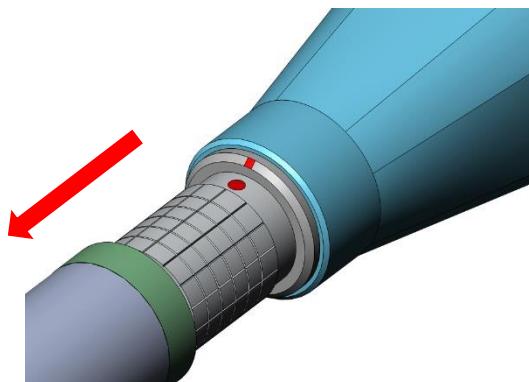
VIDEO MODULE UNIT CHANGE

Previous steps:

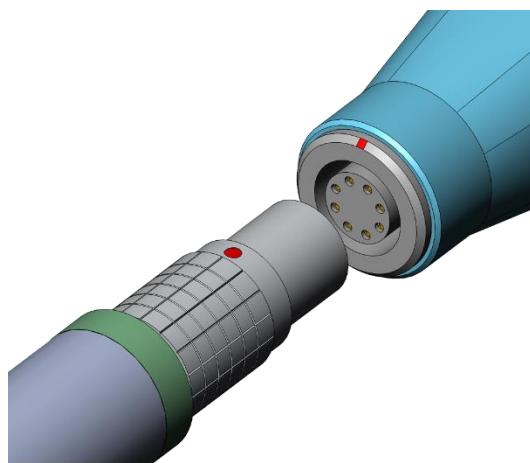
- Disassembling of the video module from the water jacket

Video Module Change :

- Disconnect the Video module unit with the Push-Pull LEMO connector



- Align the two red marks between each parts of the module and insert it until the "CLIC".



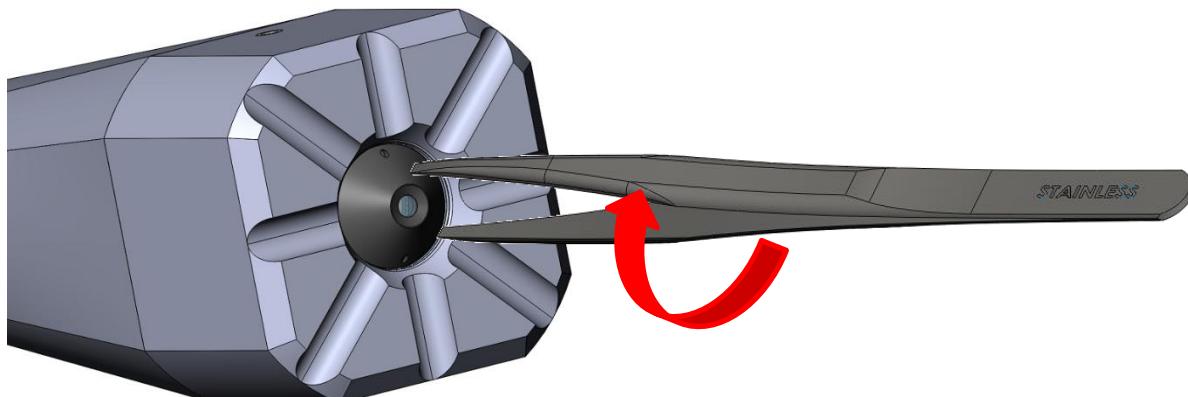
Note:

- Your equipment can be different than pictures.

CESYCO CAMERA V0 PICTURE ADJUSTING

After the first setting up in the furnace and the first, balanced and stable temperature of the endoscope, the focusing might be adjusted.

After disassembling the video module from the water jacket, screw/unscrew the lens of the camera to obtain the best picture by using a tweezers



Note :

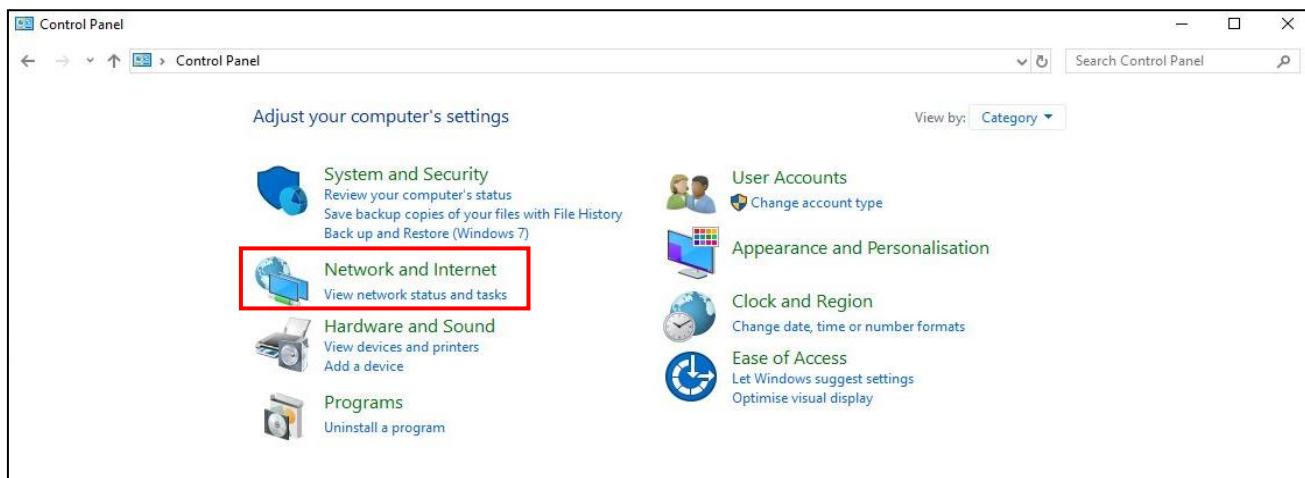
- Your equipment can be different than pictures.



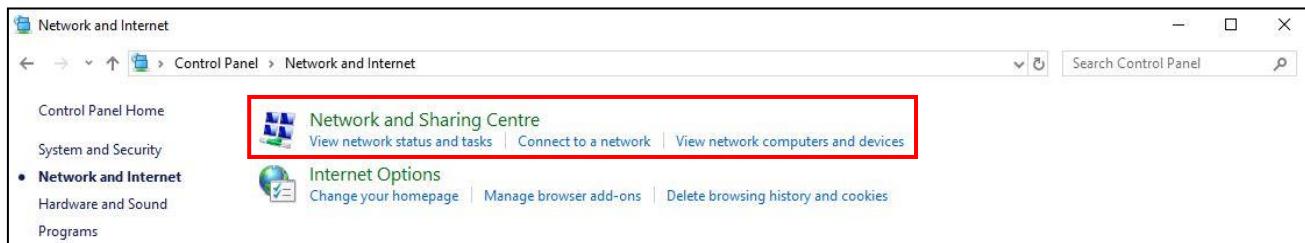
Network Settings for IP Camera

Configure the Computer Settings

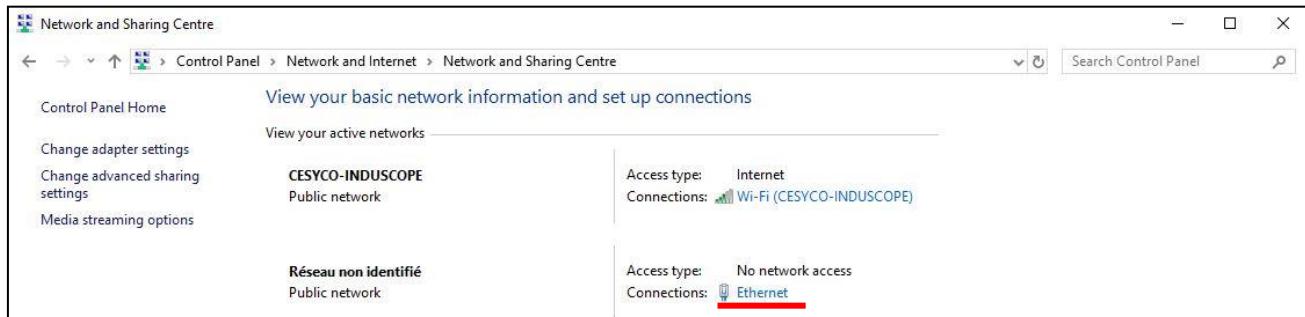
A. Open “Network and Internet” settings from the Control Panel



B. Open “Network and Sharing Centre” settings



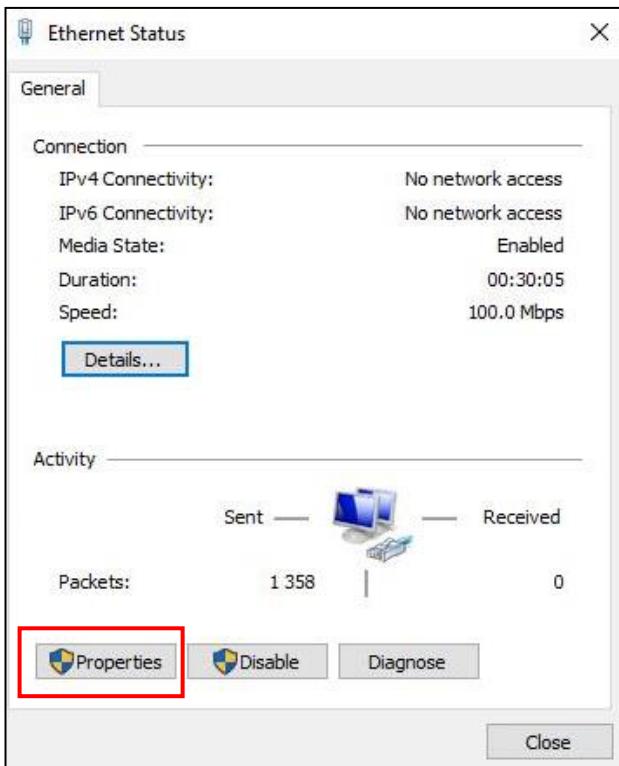
C. Select “Ethernet” network



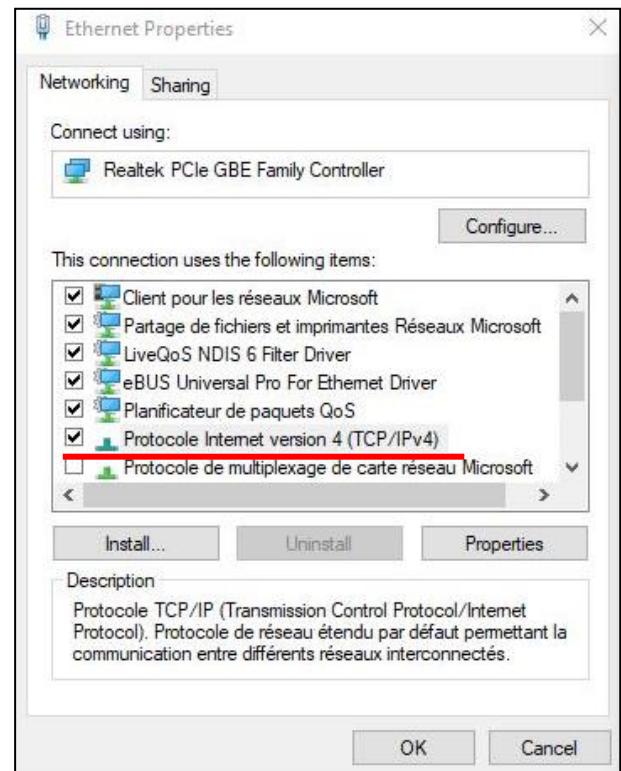


Le Spécialiste de l'Endoscopie Haute Température

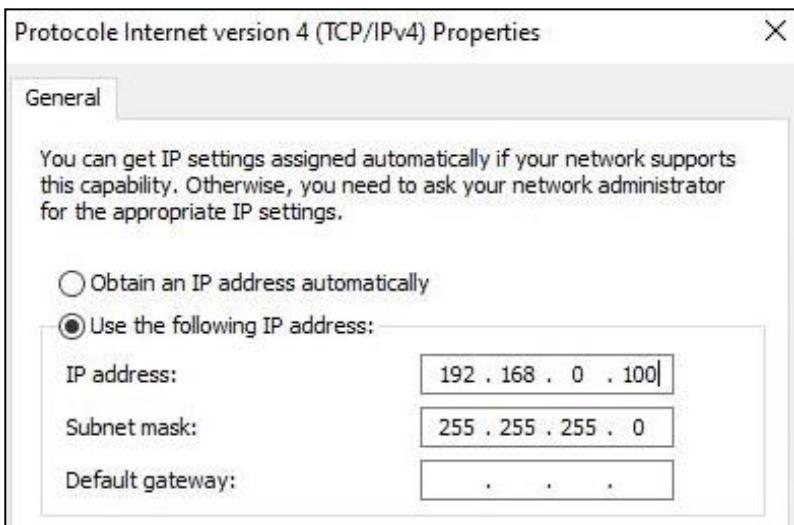
D. Open Properties



E. Choose the item “IPv4” and open Properties



F. Enter IP address: 192.168.0.100 (Always different than the camera IP address)



Then click on “Subnet mask” information, it will fill up automatically.

You can now close all windows and follow instruction to connect the camera.



Le Spécialiste de l'Endoscopie Haute Température

Camera Connexion

A. Enter Camera IP address on **Google Chrome Browser**:

If the endoscope is delivered with an electrical box, the IP address of the camera is written inside the box.

*(The default address of the camera is : **192.168.0.90**)*



B. Enter ID and Password

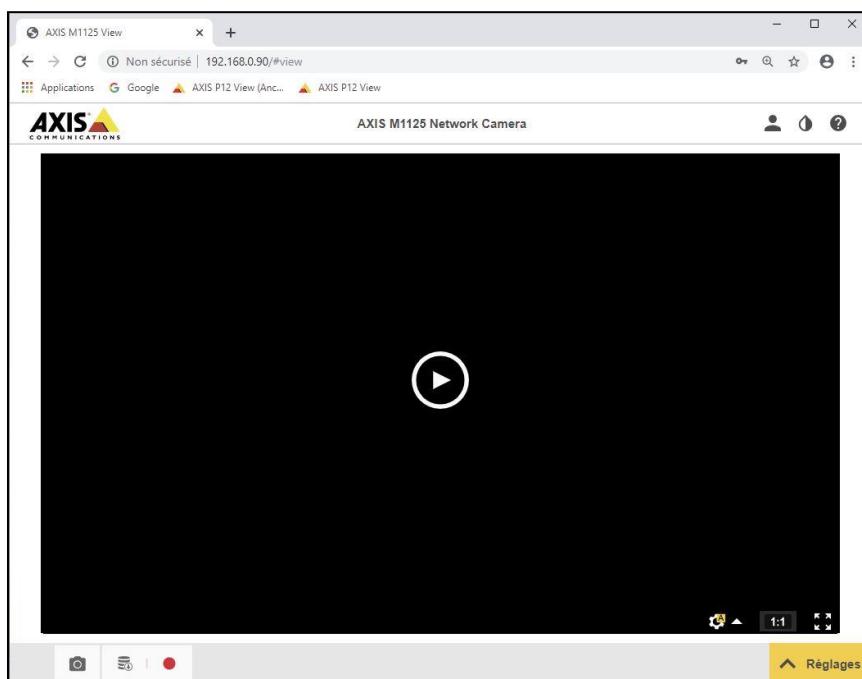
Default values:

ID: root

Password: AXIS



C. Then click on “Play” button



MAINTENANCE

Mechanical

As the metal components are either made from stainless steel or are protected by anti-corrosion coatings, they do not require any maintenance.
Onyx components don't require any maintenance.

The state of the pipes should be checked regularly.

Optical

This cleaning can be done with a cotton wool pad.

Before any cleaning, blow up with a dry air aerosol can the non-greasy dust particles that may remain on the surface, and then use a brush to remove any sticky particles either due to their greasy nature or due to the effects of static electricity.

Soak a cotton wool pad in alcohol and wipe the surface without applying pressure in order to remove the greasy dust particles that may remain on the surface.

If necessary, repeat this operation several times, changing the cotton wool pad each time.

Then wipe the lenses with a very soft cloth (a cotton cloth which has been laundered several times before being used in this way) would be better.

SET OF TOOLS

No particular set of tools is required.



Le Spécialiste de l'Endoscopie Haute Température

SPECIFICATIONS TECHNIQUES DES ALIMENTATIONS POUR ENDOSCOPE **SUPPLIES TECHNICAL DATA FOR ENDOSCOPE**

Air comprimé

Air endoscope et vérins

- Qualité : air industriel ou air instrumentation
- Pression : 2 à 7 bars
- Débit : 1 à 1,5 nm³/h
- Température : 20 à 40°C

Eau de refroidissement endoscope

- Qualité : eau déminéralisée
- Valeur pH : 6 à 7,5
- Pression d'entrée à l'armoire : Pe = 3 à 10 bars
- Température : 20 à 35°C
- Débit : 15 à 30 l/mn
- Pression d'utilisation : Pu = 2 à 3 bars
- Perte de charge totale des circuits : Pc ≤ 1 bar
- Pression de sortie armoire : Ps = Pu – Pc = 1 à 2 bars
- ΔP = Pe – Ps ≥ 2 bars

Alimentation électrique

- Tension d'entrée armoire : 100 à 250 VAC – 50/60 Hz
- Puissance : 70 VA (y compris caméra TV)

Compressed air

A/ Endoscope and cylinders air

- Quality : industrial air or instrumentation air
- Pressure : 2 à 7 bars
- Flow rate : 1 to 1,5 nm³/h
- Temperature : 20 to 40°C

Endoscope cooling water

- Quality : demineralised water
- pH value : 6 to 7.5
- Cabinet inlet pressure : Pe = 3 to 10 bars
- Temperature : 20 to 35°C
- Flow rate : 25 to 30 l/mn
- Useful pressure range : Pu = 2 to 3 bars
- Total head loss in the circuits : Pc ≤ 1 bar
- Cabinet outlet pressure : Ps = Pu – Pe = 1 to 2 bars
- ΔP = Pe – Ps ≥ 2 bars

Electric power supply

- Cabinet inlet voltage : 100 to 250 VAC – 50/60 Hz
- Power : 70 VA (including TV camera)