CARPANO EQUIPMENT

welding automation

ARC VISION

ARC VISION

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Digital camera for monitoring welding processes

carpano.it

ARC VISION

Digital camera for monitoring welding processes

- Arc Vision is an industrial camera for monitoring automatic welding processes as:
  - MIG/MAG, TIG, Plasma and SAW

- Camera is located inside a strong aluminum casing and is available in two versions: without cooling system, for environment with temperature not higher than 50°C and with cooling system, for environment with temperature higher than 50°C.

- The product is supplied provided with software for Microsoft Windows platform.

- The software allows to control up to 4 cameras and to acquire images at the same time.

- 4 integrated leds allow the lighting of the area around the welding arc and get better the vision when arc is off.

- It is possible to set several programs of view with arc on and arc off. These programs can be recalled at will and while occurs the automatic transition from arc off to arc on.

- Images are recordable on memories internal or external to the PC

We reserve the right of modifying the technical features of machinery
as stated herein and we do not respond for any printing mistake.

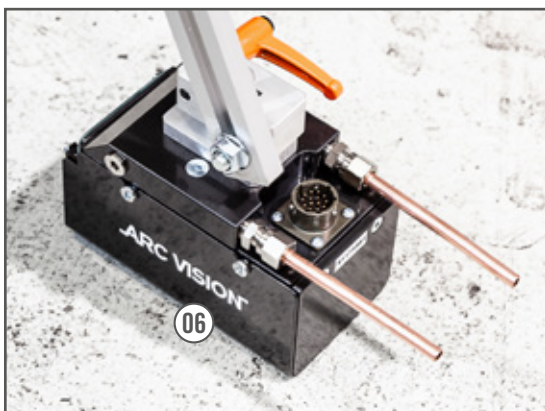- An updated version of this catalogue is always available inside our website.

ARCV - Arc Vision System, consisting of:

01 Camera with adjustable and insulated support

02 Interface module for connection to PC and to feeding line

03 10m cable for connection between interface module and camera*

04 USB key containing arc vision software

05 2m ethernet cable for connection between interface module and PC

For environment with temperature lower than 50°C

*On request are available also cables 5, 20 or 30 m long.
   For other lengths, please call on our Offices.

ARCV-W
Arc Vision System with cooling system, consisting of:

06 Camera with adjustable and insulated support and
     cooling plate

02   Interface module for connection to PC and to feeding line

03 10m cable for connection between interface module
     and camera*

04 USB key containing arc vision software

05 2m ethernet cable for connection between interface
     module and PC

For environment with temperature higher than 50°C

■ Control Kit

ARCV-KIT: Control kit for ARC Vision, consisting of

Fanless PC

- Intel I3 processor
- 4 GB Ram + 120 GB hard disk SSD
- Windows 10 and software for managing the
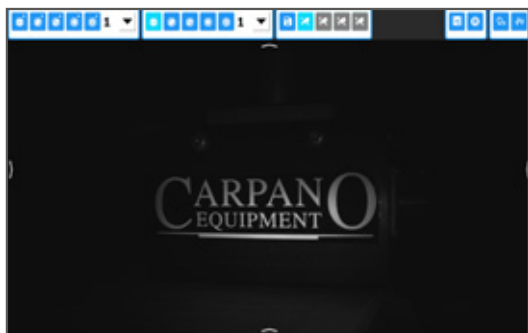 camera already installed and ready to work

15" LCD touch monitor

- HDMI or serial cable for the connection
  between monitor and PC

A/m KIT is not necessary, Arc Vision can be connected to any computer provided with similar or better features than ARCV-KIT, either desktop or notebook type.

We do prefer the touch screen for practicality, but it is possible to use mouse and keyboard.

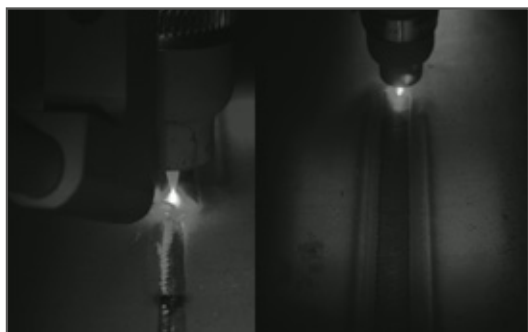### Software - Main features

Supplied on USB drive.
It can be installed on Windows 10 - 64 Bit operating system
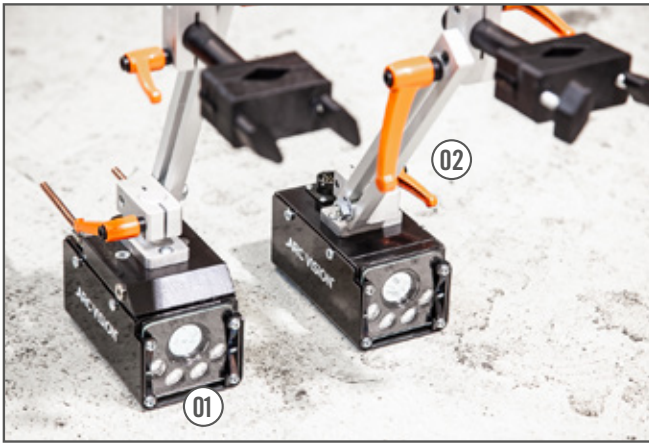
Minimal requirements:
– Processor I3 or higher
– Ram 4 GB (suggested 8 Gb)
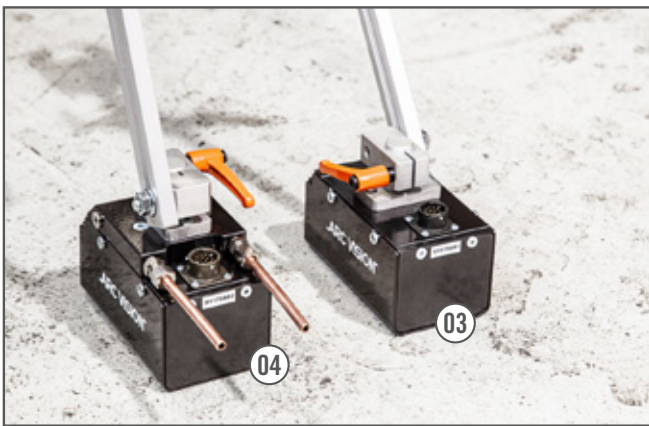– HD 120 GB, suggested SSD
– 1 Gb ethernet socket

Function:
– Possibility to view at the same time images coming out from up to 4 cameras
– Video recording (accordingly with HD capacity)
– 6 vision programs with arc off and 6 with arc on
– Automatic switching, by ARC ON input, from "arc on" program to "arc off" one
– Possibility to define a cross for indicating the position of the joint
– Definition of an area of interest ROI
– Digital zoom

ARCV-CM e ARCV-W-CAM

01 Led for the lighting of the area around the welding torch either with arc off or with arc on.
With protective glass easily extractable.

02 Adjustable support

03 Connection for the cable coming out from interface module

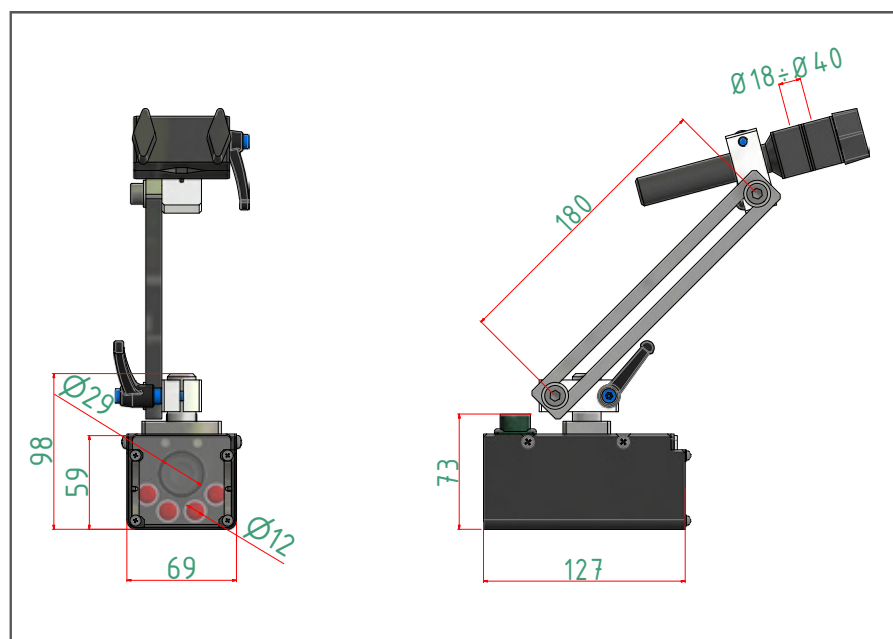04 Connections for pipes for coolant, on version ARCV-W

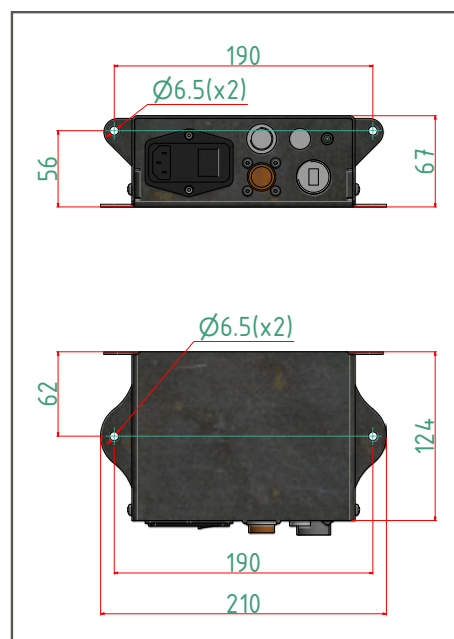## ARCV-SUPPLY: interface module for connection to PC and to the feeding line

05 Ethernet connector (for PC)

06 Arc ON input

07 Connector for camera cable

08 Main switch

09 Connector for feeding cable (included):
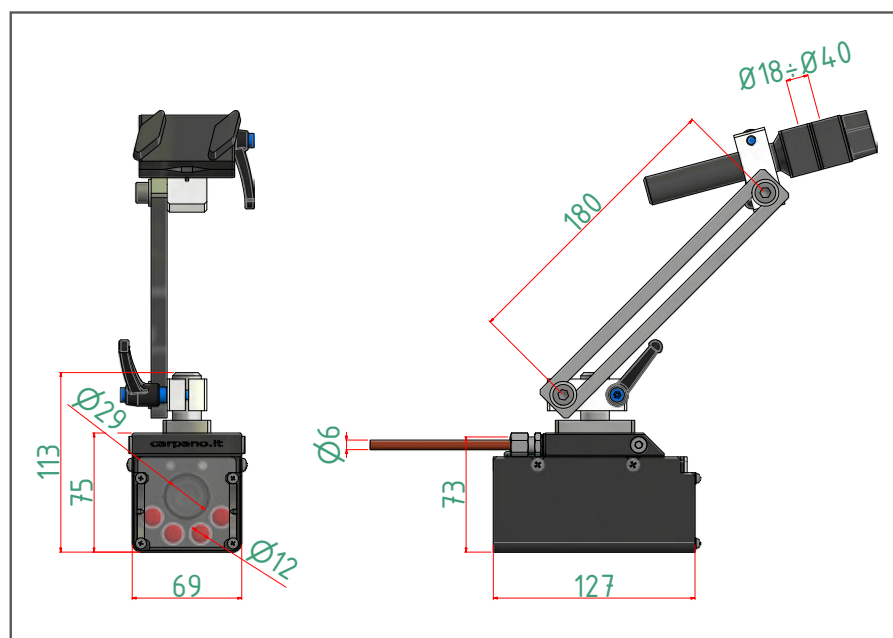110–230V single phase

Interface dimensions

ARCV–CAM
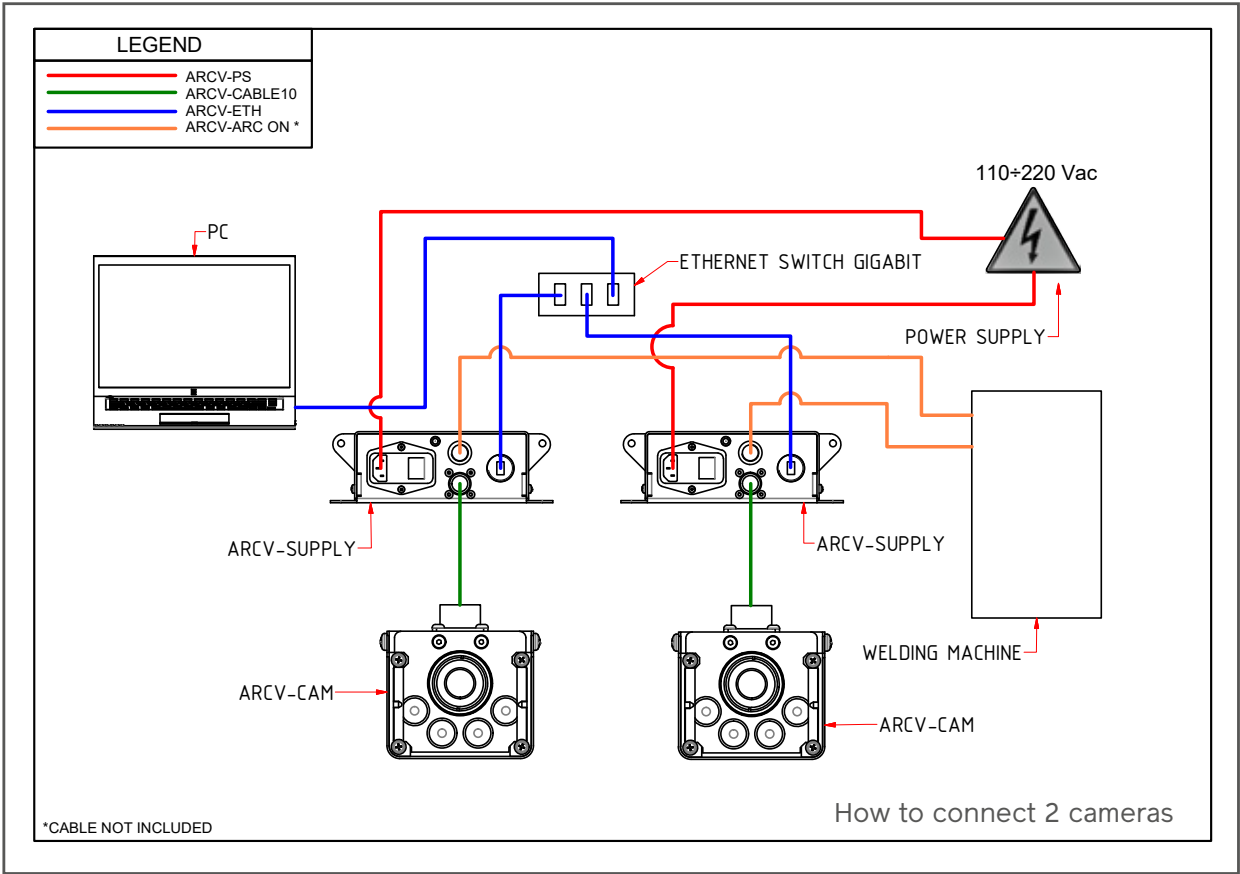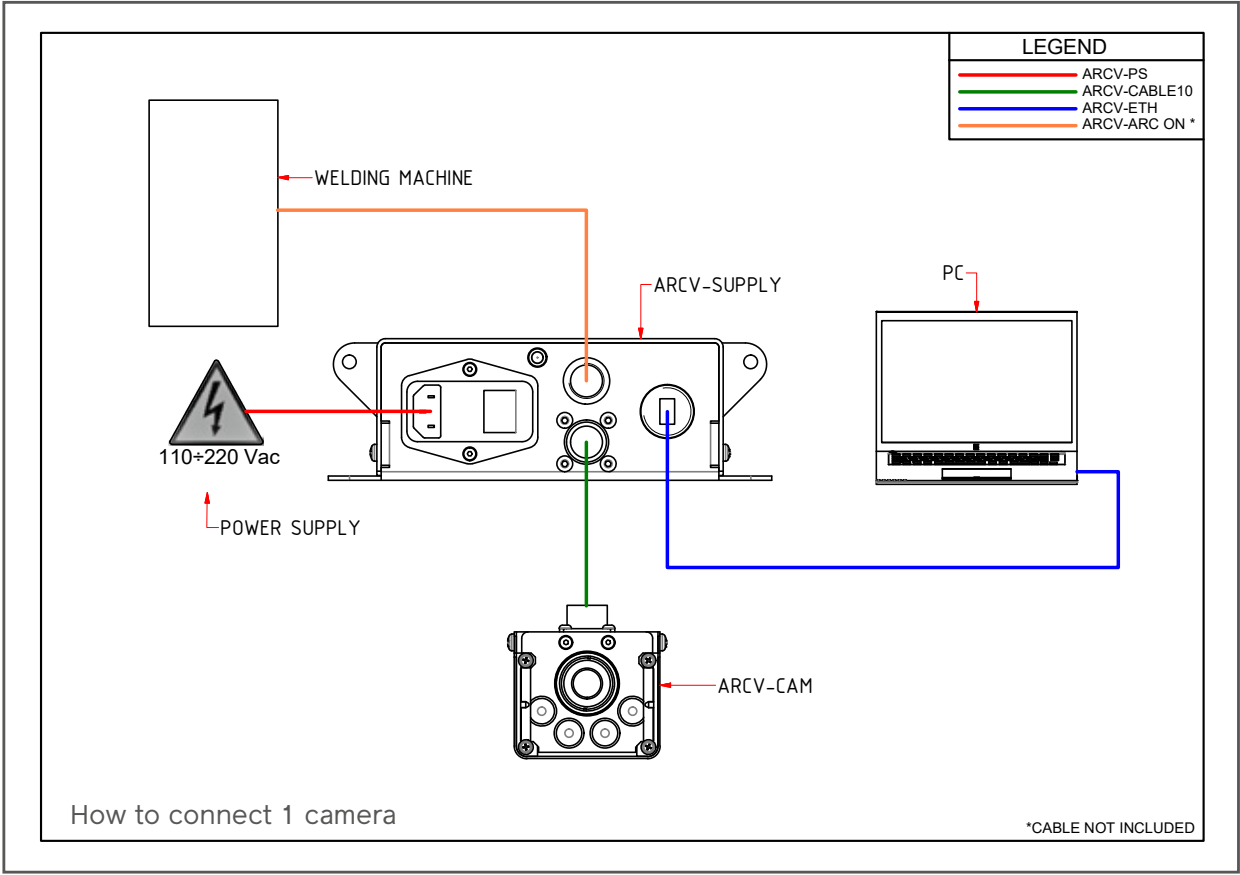

ARCV–SUPPLY

How to connect the elements

ARCV–W–CAM

LEGEND
ARCV-PS
ARCV-CABLE10
ARCV-ETH
ARCV-ARC ON *

WELDING MACHINE

ARCV-SUPPLY

PC

110÷220 Vac

POWER SUPPLY

ARCV-CAM

How to connect 1 camera

*CABLE NOT INCLUDED

LEGEND
ARCV-PS
ARCV-CABLE10
ARCV-ETH
ARCV-ARC ON *

110÷220 Vac

PC

ETHERNET SWITCH GIGABIT

POWER SUPPLY

ARCV-SUPPLY

ARCV-SUPPLY

WELDING MACHINE

ARCV-CAM

ARCV-CAM

How to connect 2 cameras

*CABLE NOT INCLUDED

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