

## Welding camera system WVS-34

By semi-automatic or automatic welding equipment the service and control of the welding torch mostly occurs from a control station. To set the position of the welding torch and the parameters for the welding process optimally, however, a visual inspection from the control station is required.

The welding camera WVS-34 provides a sharp color picture and allows therefore an optimal observation of welding torch, filler wire and work piece as well as welding arc and melting area. This can help you e.g., to shorten the set-up time substantially or faster recognition of possible welding mistakes. The camera cables can be ordered up to 50 m length.



Version 1.4.2

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## Reference

Unfortunately there is no guarantee, that this manual is without lacking.  
Changes could be made without announcements.

Note the scope of delivery and check if all ordered parts are delivered

Due to customers order, additional components can be delivered.

If components are missing please contact your dealer.

Never try to repair a broken system by yourself, contact your dealer.

Warranty will lost by inappropriate use of the system!

## Safety instructions

Please read this manual carefully and check for the instruction before operating the WVS-34 welding vision system.

Keep these instructions at a safe place.

Use the system only in the specified temperature and air humidity area.

Use only original power supplies for operating the system.

Do not open the case of the camera. Parts inside can be damaged or de-adjusted.

Get sure, that the power supply is disconnected, when system will be installed and cables will be connected.

Connection cables should be moved in such a way that no one can step on it or that they can be damaged by falling down objects.

Never pour liquids about the camera or the operating device.

Never put objects by openings of the machine. You can touch voltage-carrying shares and receive an electric blow.

Before cleaning the system has to go is switched off and is separated from the operating voltage. Use to the cleaning a humid cloth.

Use no sharp cleaning agents or spray cans.

With operational disturbances switch off the system and separate it from the main power. To leave servicing works or repair work exclusively to the manufacturer.

The installation of the system may be carried out only by certified staff and must correspond to the local regulations.

## Delivered parts

- Camera in housing
- lens as specified by customer
- camera cable, depending on the order, up to 50 m long

Monitor cable, power supply and Monitor has to be ordered separately

## Installation

- Connect all cables before connecting the main power supply
- Any screws, fixing the camera on chassis, must be not longer then 4mm intrusion in housing
- At the assembly (mounting) of the camera is to be noted that the **camera has to be electrical isolated from welding chassis.**
- Set camera in correct distance to the object (melting area). This distance is to be kept - otherwise a sharp position adjustment of the object is not guaranteed.
- Due to high temperatures near camera please take care for proper cooling.
- Due to some special filters inside the camera is **no additional part necessary for switching from setup to welding.**

## Mounting

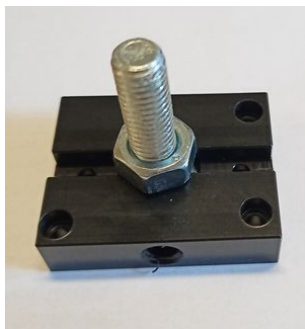
For mounting of camera are two adaptor available.

The base plate which will be mounted onto upper side of camera, 2 screws M3x10.m.

In base plate can used a M8 screw. Put it from lower side through the hole in base plate and fit with a M8 nut on upper side. See picture on left side.

For a mounting with possibility of change tilt position use adapter shown on right side. In this case the M8 screw has to be removed.

On right and left side of base plate are also 1/4" -20 threads for mounting onto a tripod.



## Setting Iris

Iris should be set to 8

## Focus adjust

Focus adjust is made on the lens itself. Therefore remove the tubus first. The tubus is secured against twisting using an M3 countersunk screw with a hexagon socket.

## Cooling

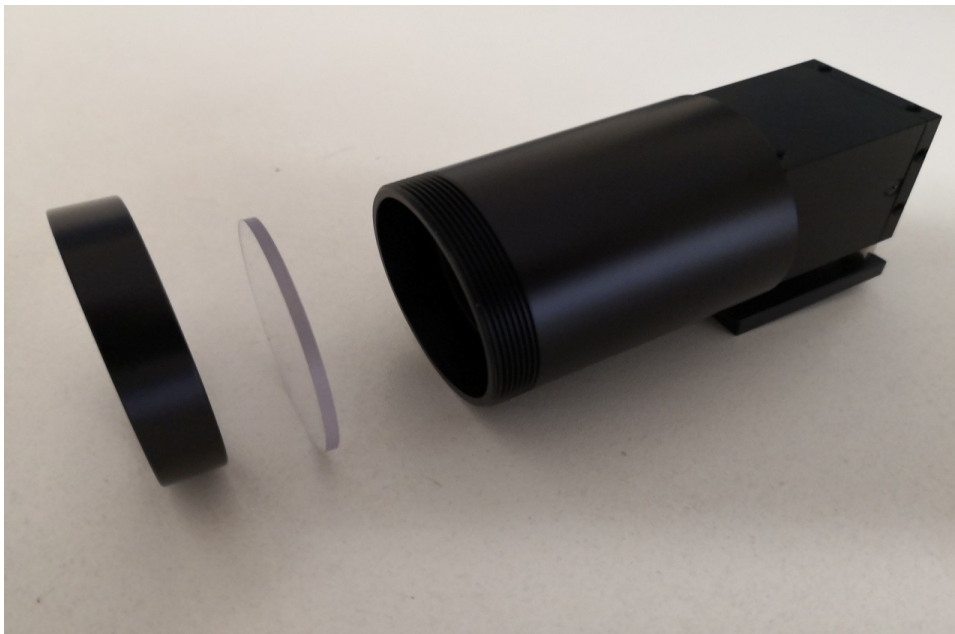
Tubes are connected to the two connectors on upper side

Use tubes with 6mm o.D.

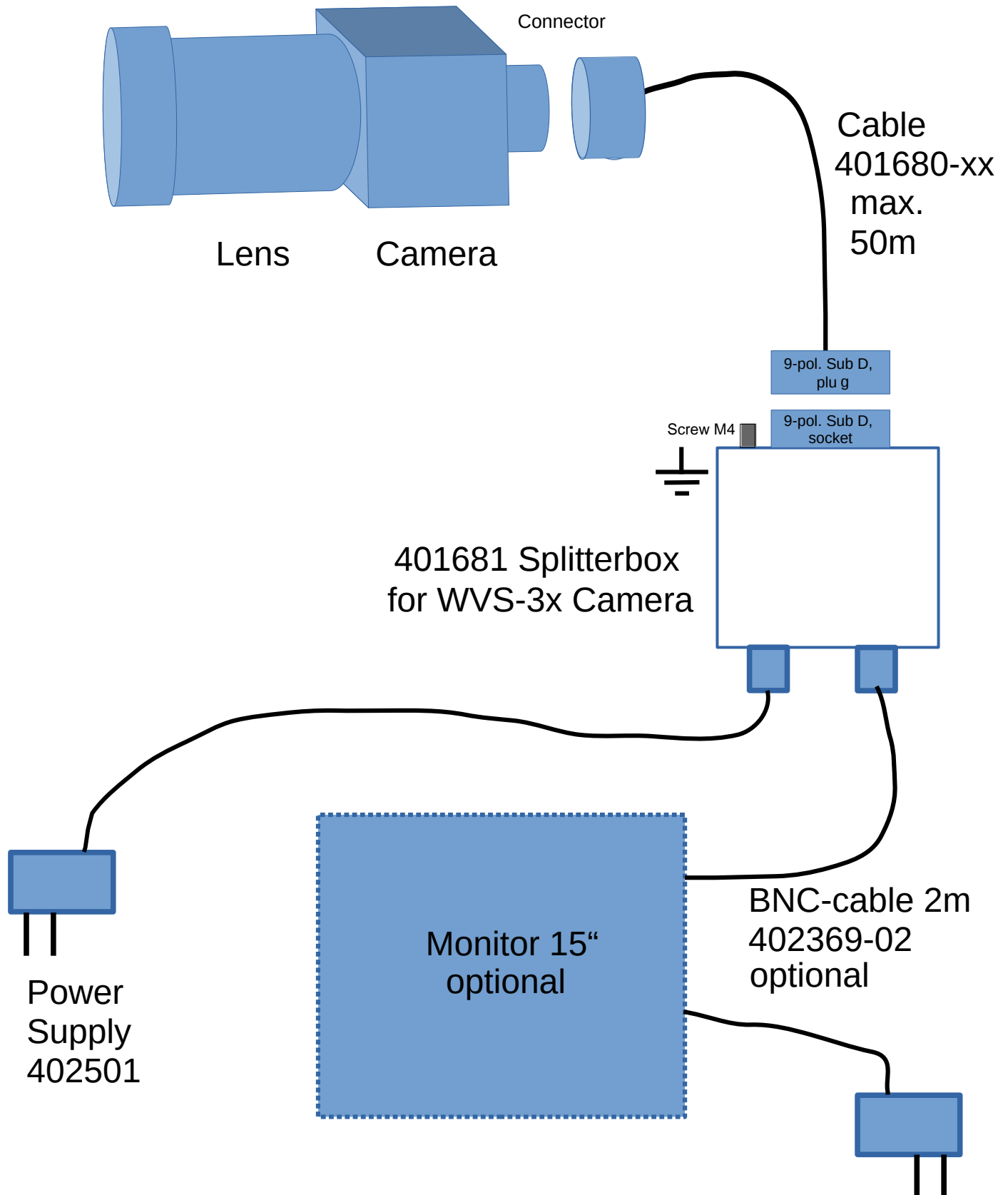
## Shield glass

To protect the lens from spatters a Polycarbonate shield is used.

For changing unscrew the nut from tube.



# WVS-32 principle wiring, Splitterbox separate



## Technical specification

<b>Sensor:</b>	<b>1/3 Sony 960 H CCD Sensor (960 H CCD)</b>	
<b>Effektive Pixel</b>	<b>PAL: 976 (H) ×582 (V)</b>	
<b>Scanning-System</b>	<b>625 linien, 50 f/s</b>	
<b>Resolution</b>	<b>800TVL</b>	
<b>WDR:</b>	<b>150 DB</b>	
<b>White balance:</b>	<b>ATW</b>	
<b>Video output:</b>	<b>Composite Video 1,0 V p-p/75Ω</b>	
<b>Humidity:</b>	<b>85 % RH</b>	
<b>Splitterbox can be up to 50m away from camera</b>		
<b>Power:</b>	<b>12 VDC, 220mA</b>	
<b>Dimension:</b>	<b>Camera</b>	<b>42 x 42 x 110 mm</b>
<b>(W x H x D)</b>	<b>Splitterbox</b>	<b>50 x 50 x 30 mm</b>
<b>Weight:</b>	<b>Camera</b>	<b>ca. 320gr. incl. cooling and holder</b>

<b>Cables:</b>	<b>Art.N.</b>	<b>Length</b>
	401680-05	5m
	401680-10	10m
	401680-15	15m
	401680-20	20m etc...

<b>Power Supply:</b>	<b>Art.N.</b>	
	402501	PS Euro, 100 – 240 VAC auf 12VDC
	402502	PS Euro, 100 – 240 VAC auf 12VDC, bei Kabellängen > 40m

<b>Spare Part:</b>	<b>Art.N.</b>	
	401676	Protective Glass

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