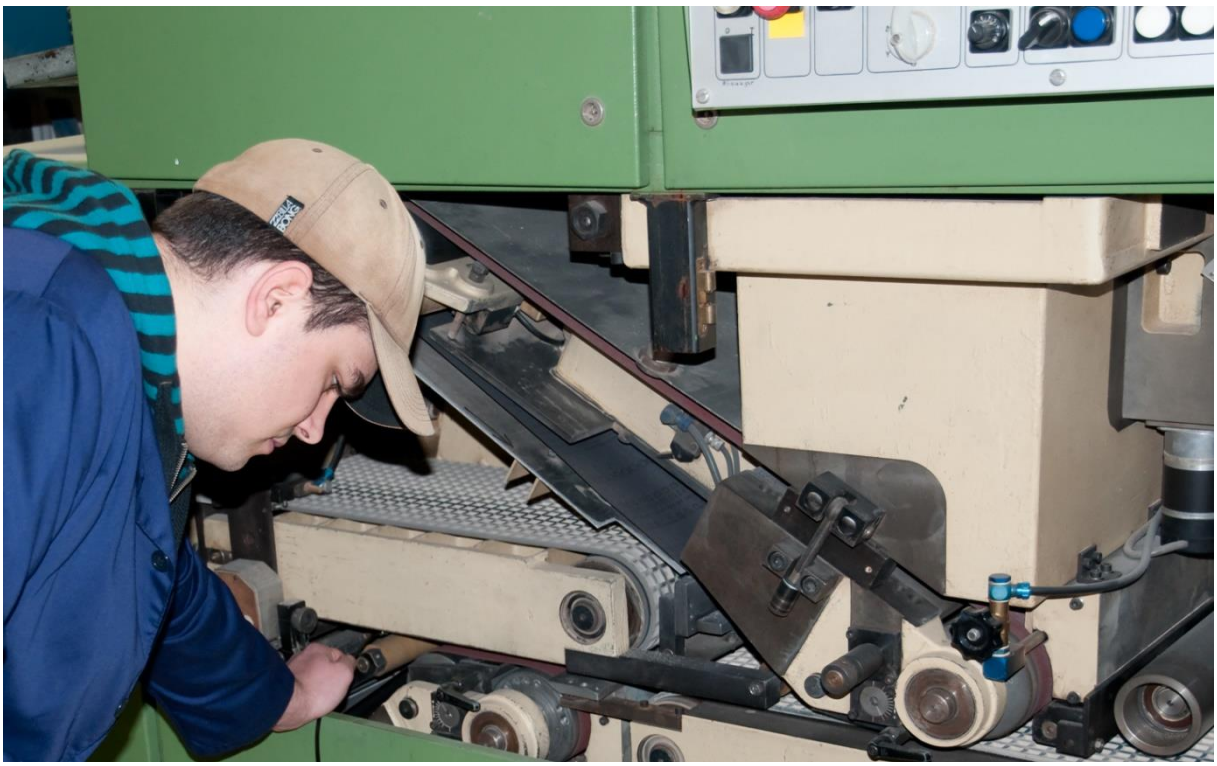
PCE Americas Inc.
711 Commerce Way
Suite 8
Jupiter
FL-33458
USA
From outside US: +1
Tel: (561) 320-9162
Fax: (561) 320-9176
info@pce-americas.com

PCE Instruments UK Ltd.
Units 12/13
Southpoint Business Park
Ensign way
Hampshire / Southampton
United Kingdom, SO31 4RF
From outside UK: +44
Tel: (0) 2380 98703 0
Fax: (0) 2380 98703 9
info@pce-instruments.com

www.pce-instruments.com/english
www.pce-instruments.com

Videoscope PCE-VE 650 Application Report

Preventive visual inspection of gears, bearings and all the other machine components not visible from outside by means of borescope is a quick, inexpensive and accurate condition monitoring of a machine.



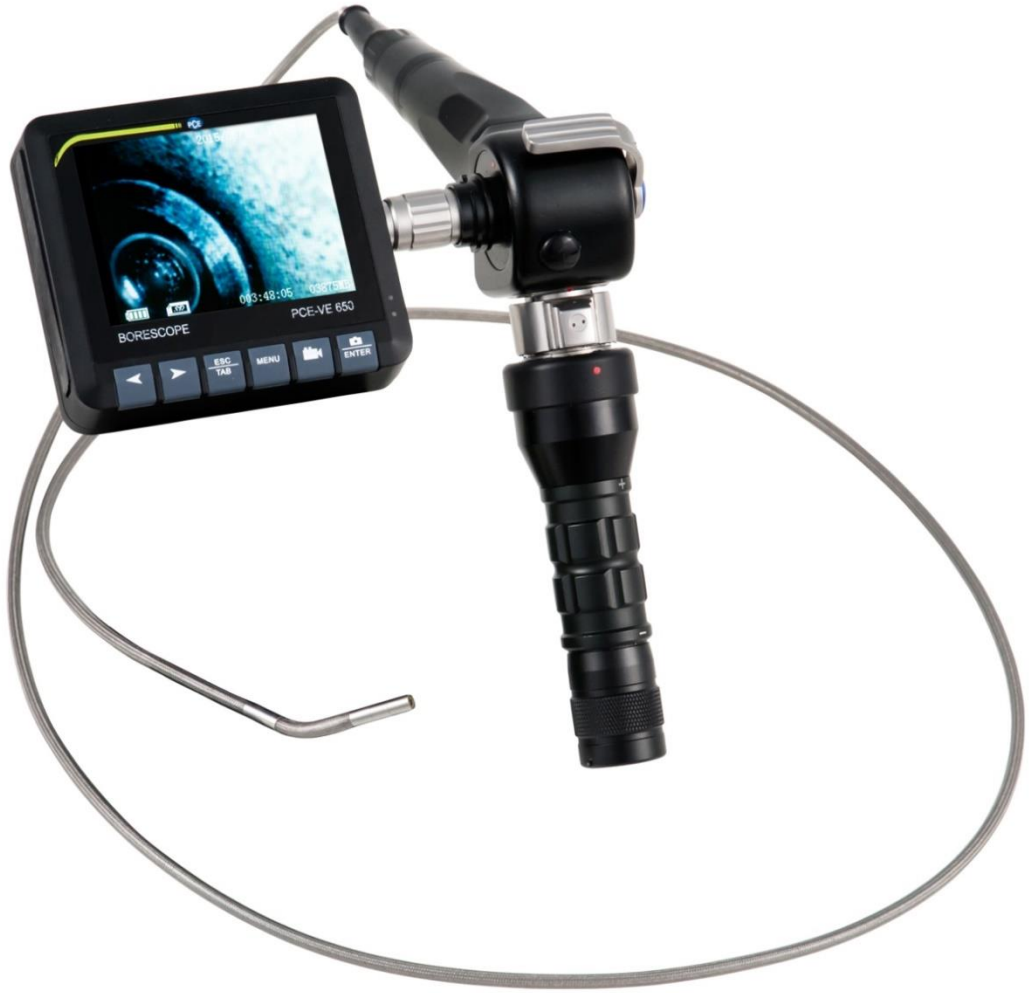
The gear-endoscopy provides concrete information about the mechanical condition of a gear, including bearings, without costs and time consuming total or partial dismantling of the machine part. Thus, e.g. planetary gear can be examined for damage. Due to the quick execution of a video

endoscopy long interruptions in the working process are omitted as this may be realized within only a few hours.

The external inspection of gear bearings, gear pinions and the tooth flanks provides information on the degree of wear, which can be meaningfully evaluated now in the form of video or image documentation.

In particular, in the process of analysis of machine parts and their surfaces, the resolution of the optics plays the most important role. Here the PCE-VE 650 scores with a bright optics with a resolution of 720 x 576 pixels (photo) and 720 x 480 pixels (video). All the image data can be stored on a SD memory card (max. 32 GB) or in the built-in flash memory. An adjustable to 5 lighting levels lighting optics provides illuminance favorable for metal surfaces.

For the selective inspection of machine parts in difficult to access places the mobility of the optics as well as the visibility of the display is extremely important. Here the PCE-VE 650 scores on the one hand with the extreme pivoting camera head and on the other, with the rotatable and detachable display. Thus, working in narrow spaces is also possible.



Delivery

1 x videoscope PCE-VE 650, 1 x 4 GB SD card, 1 x DC5V adapter, 1 x AV output cable, 2 x Battery, 1 x charger, 1 x USB cable, 1 x carrying case, 1 x user manual