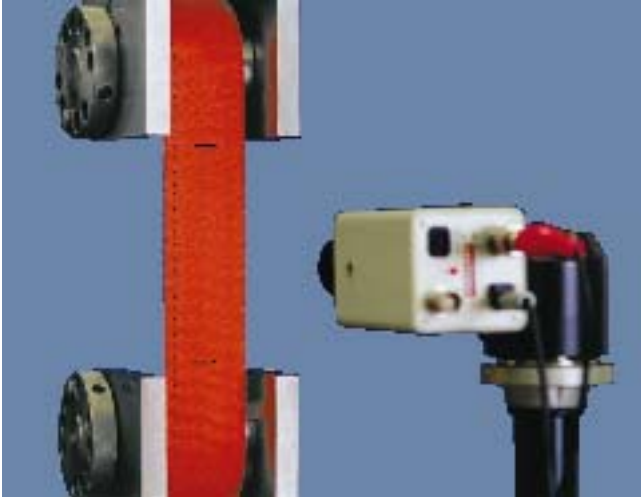


## Product Information

### Video extensometer W40220 / TC-EXVIDEO



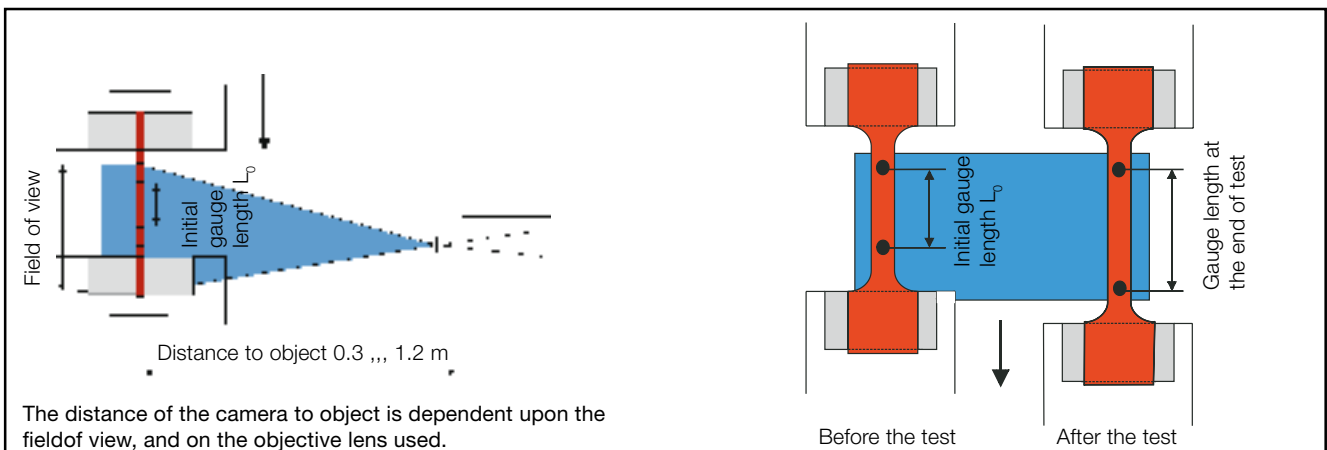
#### Applications area

The video extensometer measures contact-free, and with high resolution, tensile and compression deformations on all types of plastic, metals, rubber, composites, panels and foils.

It is also suitable for determination of reduction-in-width,  $r$ - &  $n$  values according to ISO 10113 and ISO 10275, and the yield strength in tensile tests according to EN 10002-1.

#### Advantages of the video extensometer

- It is the ideal measuring system for elongation measurements of whipping materials (safety belts, steel ropes, rubber ropes, etc.)
- The resolution and measuring accuracy is high over the entire field of view
- Extensions as well as reduction-in-width are possible at the same time
- Test paths are variable and very large, according to the selection of the picture size or objective
- Automatic test mark recognition and acquisition of the initial gauge length  $L_0$
- Optional determination of reduction-in-width,  $r$ - &  $n$  values according to ISO 10113 and ISO 10275, and the yield strength in tensile tests according to EN 10002-1
- Accuracy class 1 (at a field of view  $\leq 100$  mm) according to EN ISO 9513 and accuracy class 2 according to EN ISO 9513 (with 8 mm objective or at a field of view  $> 100$  mm)
- The entire test sequence can be followed on the screen
- Capturing and printing out the picture of the specimen at the moment of failure



## Product Information

### Video extensometer W40220 / TC-EXVIDEO

Order item	W40220.01.00/TC-EXVIDEO.001	
<b>Field of view</b>	<b>Resolution</b>	<b>Unit</b>
50 mm	0.5	µm
100 mm	1	µm
200 mm	2	µm
500 mm	5	µm
1000 mm	10	µm
Measurement path dependent upon the field of view		
$L_0 = 5 \text{ mm to } 1000 \text{ mm}$ . Maximum test speed: 1000 mm/min		
Distance of camera to specimen dependent upon the field of view and the objective lens		
Accuracy grade 1 (at a field of view $\leq 100 \text{ mm}$ ), according to EN ISO 9513		
Accuracy grade 2 (at 8 mm objective or field of view $> 100 \text{ mm}$ ), according to EN ISO 9513		
High resolution Video extensometer as above, but with Dialogues and documentation in <b>English</b>		<b>W40220.01.10 / TC-EXVIDEO.002</b>
<b>Also required:</b>		
Software, plug-in <i>testXpert</i> <sup>®</sup>		<b>069099.07.xx</b>
Objective lens and lamp, see below		
RS232 interface in the PC		

**Please note:** Danger of misting exists when using the extensometer with CO<sub>2</sub> and LN<sub>2</sub> temperature chambers at certain humidity and temperature of - 20 ... 0 °C. Then there may be several minutes to wait until the test can be started.

The temperature range is restricted to - 40 ... + 120 °C in operation with a temperature chamber because of the measurement markers.

If extension and reduction-in-width measurement get combined, the field of view must not be quitted!

#### Objective lenses

Description	Order item
Objective lens 8 mm focal length, manual iris, max. distance to object = 1200 mm, grade 2*	<b>W40220.01.01</b>
Objective lens 12 mm focal length, F/1.8, manual iris, max. distance to object = 1200 mm, grade 1*	<b>W40220.01.02</b>
Objective lens 25 mm focal length, F/1.6, manual iris, max. distance to object = 1200 mm, grade 1*	<b>W40220.01.04</b>
Objective lens 50 mm focal length, F/1.6, manual iris, max. distance to object = 1200 mm, grade 1*	<b>W40220.01.05</b>

\* EN ISO 9513

#### Lamps

Description	Order item
Lamp for normal field of view illumination, active length: approx. 300 mm, suitable for objective lenses with focal length: 25 mm and 50 mm	<b>W40223.01.01</b>
Special lamp for increased field of view illumination, active length: 500 mm, suitable for objective lenses with focal length: 8 mm, 12 mm, 25 mm, and 50 mm	<b>W40223.01.02</b>

