Lens Test Projector P-TP7
Glass & Filter Inserts, 60 mm LED Image Circle, Lens Data & Control
State-of-the-Art Frontend

60 mm LED Image Circle

The LED light source evenly illuminates a large 60 mm image circle for simulating large camera sensors beyond full frame, like ARRI Alexa LF, ARRI Alexa 65, RED Monstro, SONY Venice, and further developments.

LED Light Engine with CPC technology

Eliminating the light fall-off on the edge of traditional lenses the P-TP7 uses a Compound Parabolic Concentrator (CPC) instead of standard lens units. This sophisticated light engine guarantees illumination uniformity.

Glass and Filter Inserts

The 3x3” glass insert between lens mount and reticle accounts for the effects of optical low pass filters or sensor cover glasses (up to 5 mm thickness) in cameras. The 3x3” filter insert between light engine and reticle simulates specific color spectrums and temperatures with standard 3x3” filters (up to 4.6 mm thickness).

Enhanced Workflow

Lens Data Read-out

Two multiport connectors on both sides of the projector give full access to the lens, sockets, accessories, and projector.

Electronic Mounts and Sockets

The electronic lens mounts and the lens data socket provide electrical power to the lens and enable read-out, controlling and programming of lens encoder positions (like /i-Data and LDS meta data). The lens port socket powers ENG / broadcast lenses and examines VTR, Return, and Follow Voltages.

Modularly Built System

The P-TP7 offers the traditional way of manual back focus via a knob with friction clutch protection. Calibration and read-out of back-focus is done via an analog or digital gauge.

The back-focus is adjusted by a cable bound control or the dedicated Chrosziel MagNum wireless Focus, Iris, Zoom (FIZ) Lens Control System (LCS).
**Basic Setup – Highlights**

- **Main Power Switch** (on / off)
- **3-way LED Light Brightness** (high / low / off)
- **Dimmable Working Light**
- **MultiPort Connector**
- **Remote Back Focus / Flange Depth** (cable connected remote control or wireless back focus access via wireless FIZ)
- **Manual Back Focus / Flange Depth** (with friction clutch protection)
- **60 mm Image Circle**
- **Easy Access to Centering Screws of Zoom**
- **Quick Release Large Format Base Mount** (with built-in electronics)
- **Built-in 19 mm Rod Supports**
- **Measurement Plane Indicator** (to attach tape measure)
- **Glass & Filter Inserts**
- **Enhanced LED Light Engine** (even and bright 5,000 K color temperature illumination)
- **Multicolor gooseneck LED working light** (white / red / green / blue / off)

**What’s in the box**

- In the box
  - 1x Lens Test Projector P-TP7
  - 1x Remote control with cable
  - 1x Multicolor LED gooseneck working light
  - 3x Power cable (US / EU / UK)
  - 1x Measurement gauge (1 µm scale)
  - 1x Lens Support
  - 2x 19mm rods
  - 2x Filter holders
  - 1x Printed manual

- **Order No.** P-TP7
- **List Price** USD 19,153.00 / EUR 16,950.00

For our deliveries and services solely, our General Terms of Trade apply. All prices are without VAT.
Chrosziel GmbH, Klausnerring 6, 85551 Kirchheim bei München | Tel: +49 89 901 091-0 | info@chrosziel.com, www.chrosziel.com
**Lens Mount Adapters and Measuring Blocks**

Every lens mount adapter adapts for flange depth / back-focus distance by mechanical design. The Quick Release Base Mount allows for easy swapping of different mount types.

**Lens Mount Adapters with built-in electronics**

The lens mount adapters with built-in electronics are designed for powering lenses (used e.g. for attached servo drives or image stabilization) and reading-out internal lens encoder data. Lens data (like /i-Data and LDS meta data) are programmed via the projector’s MultiPort (depending on lens model).

A measuring block set consists of measuring block, ground plate, and mounting flange with analog measuring gauge.

Product example pictures:

<table>
<thead>
<tr>
<th>Description</th>
<th>Adapter Order No.</th>
<th>List Price (EUR)</th>
<th>Measuring Blocks Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL</td>
<td>P-APL-L</td>
<td>1,450.00</td>
<td>C-MBAPL</td>
<td>695.00</td>
</tr>
<tr>
<td>ARRI LPL</td>
<td>P-ALPL-L</td>
<td>1,450.00</td>
<td>C-MBALPL</td>
<td>695.00</td>
</tr>
<tr>
<td>Canon EF</td>
<td>P-FMCEF-L</td>
<td>1,450.00</td>
<td>C-MBEF</td>
<td>695.00</td>
</tr>
<tr>
<td>Sony E</td>
<td>P-FME-L</td>
<td>1,450.00</td>
<td>C-MBSE</td>
<td>695.00</td>
</tr>
</tbody>
</table>

**Lens Mount Adapters standard version**

A measuring block set consists of measuring block, ground plate, and mounting flange with analog measuring gauge.

Product example picture:
**Lens Mount Adapters with glass way**

Mount adapters with glass way simulate the operation mode of dichroic prisms splitting the image into red, green, and blue components.

A measuring block set consists of measuring block, ground plate, and mounting flange with analog measuring gauge.

Product example picture:

![C-MBENG](image)

### Description

<table>
<thead>
<tr>
<th>Mounts type</th>
<th>Adapter Order No.</th>
<th>List Price (EUR)</th>
<th>Measuring Blocks Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4 2/3&quot; HD, flange depth 65,03 mm</td>
<td>P-VMHD-L</td>
<td>tba</td>
<td>C-MBHD</td>
<td>695.00</td>
</tr>
<tr>
<td>B4 Zeiss 2/3&quot; HD, flange depth 65,06 mm</td>
<td>P-VMZ-L</td>
<td>tba</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/3&quot; HD, flange depth 41,99 mm</td>
<td>P-VM13-L</td>
<td>tba</td>
<td>C-MB13</td>
<td>695.00</td>
</tr>
<tr>
<td>B4 2/3&quot; SD ENG, flange depth 65,24 mm</td>
<td>P-VMS-L</td>
<td>tba</td>
<td>C-MBENG</td>
<td>695.00</td>
</tr>
<tr>
<td>Ikegami 2/3&quot; SD, flange depth 76,94 mm</td>
<td>P-VMI-L</td>
<td>tba</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sony 1/2&quot; SD ENG, flange depth 52,71 mm</td>
<td>P-VMS12-L</td>
<td>tba</td>
<td>C-MBS12</td>
<td>695.00</td>
</tr>
</tbody>
</table>
**Lens Test Charts (Reticles)**

All reticles are interchangeable without compromising precision. They feature a non-rotating safeguard with precision below 1/3° for use with anamorphic lenses.

### 65 mm ARRI, Cine & Single Chip sensors

The 65 mm ARRI reticle for cine and single chip sensors was developed with ARRI™. The reticle shows grids in the background, aspect ratio lines, line pair bars, Siemens stars (spherical / anamorphic 1.3x / 2x), image circles (Super 16, Super 35, ARRI Alexa LF, Alexa 65), and camera formats (Alexa 16:9 / 4:3 / open gate, Alexa LF 16:9 / open gate, Alexa 65 5.2K / open gate).

#### Description

<table>
<thead>
<tr>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-TCARRI-L</td>
<td>2,650.00</td>
</tr>
</tbody>
</table>

### 65 mm Cine & Single Chip sensors

The 65 mm cine and single chip sensors reticle shows grids in the background, aspect ratio lines, line pair bars, Siemens stars (spherical / anamorphic 2x), image circles (Super 35, Full Frame, Super 16, Medium Format), and camera formats (Super 35, RED Monstro / PV DXL2 8K Full Frame 1:1, ARRI Alexa 16:9, ARRI Alexa LF Open Gate, Full Frame, ARRI Alexa LF 16:9, ARRI Alexa Open Gate, Sony Venice, RED Helium 8K, ARRI Alexa 4:3, Four Thirds).

#### Description

<table>
<thead>
<tr>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-TC65-L</td>
<td>2,650.00</td>
</tr>
<tr>
<td>P-TC65A-L</td>
<td>2,650.00</td>
</tr>
</tbody>
</table>

### Customized reticles

Adapting to needs and workflows in lens testing Chrosziel offers custom reticle designs. The pattern can be supplied as machine-readable design for manufacturing or designed by Chrosziel as a service based on a drawing or sketch. A surcharge applies in addition to reticle itself. For design as a service an hourly rate for design work apply if applicable.

#### Description

<table>
<thead>
<tr>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-TCIND-3</td>
<td>2,150.00</td>
</tr>
<tr>
<td>P-TCIND-5</td>
<td>2,750.00</td>
</tr>
<tr>
<td>P-TCIND-10</td>
<td>755.00</td>
</tr>
</tbody>
</table>

---

For our deliveries and services solely, our General Terms of Trade apply. All prices are without VAT.
Chrosziel GmbH, Klausnerring 6, 85551 Kirchheim bei München | Tel: +49 89 901 091-0 | info@chrosziel.com, www.chrosziel.com
Useful Accessories (I)

Laser Distance Measuring Device

The laser distance measuring device mounts directly on the MultiPort connector of the projector. It displays the distance between the reticle plane and the projection screen.

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Distance Measuring Device</td>
<td>P-LDM</td>
<td>895.00</td>
</tr>
</tbody>
</table>

MultiPort Data Converter to USB

The MultiPort data converter to USB transfers internal serial CAN bus1 & 2, SPI, TTL, RS-232, RS-422 and further serial data via the MultiPort connectors and a standard USB cable to external devices like a PC: It enables read-out and control of laser distance measuring device data, lens meta data, CAN bus motor data, and communicates with broadcast ENG lenses.

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MultiPort Data Converter to USB</td>
<td>P-USB-TP7</td>
<td>595.00</td>
</tr>
</tbody>
</table>

Laser Pointer

For zoom tracking the laser pointer is mounted on the top of the lens test projector and shows a red laser dot on the wall representing the lens optical center of zoom. It is adjustable in Pan and Tilt directions.

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser pointer</td>
<td>P-LP-TP6</td>
<td>375.00</td>
</tr>
</tbody>
</table>
**Useful Accessories (II)**

**Digital Measuring Gauge**

The digital measuring gauge shows the back-focus distance on the display with 1μm precision. The digital measuring gauge RS-232 connection cable connects via RS-232 port with other devices for back-focus read-out (e.g. Chrosziel MagNum).

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Measuring Gauge (1μm scale)</td>
<td>P-MG-D1</td>
<td>670.00</td>
</tr>
<tr>
<td>Digital Measuring Gauge RS-232 connection cable</td>
<td>P-MN-GAUGE</td>
<td>380.00</td>
</tr>
</tbody>
</table>

**Glass block**

Designed for the simulation of optical low pass filters, ND filters and camera sensor protection glass of the ARRI Alexa series or cameras with similar light path. The glass with 3 mm thickness is optimized to a tolerance of below 3 mμ and features a precise antireflective optical coating, tempering and polishing. It is premounted in a 3x3 filter holder with spacer plate.

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass block</td>
<td>P-GLASS-3</td>
<td>795.00</td>
</tr>
</tbody>
</table>
**Wireless operation**

**MagNum wireless follow focus system**

For wireless control of the internal back-focus motor the combined power / motor control cable (P-MN-CABLE) and the MagNum wireless FIZ (MN-200) are used.

For digital read-out of the back-focus on the MagNum hand unit, the digital measuring gauge (P-MG-D1), the RS-232 cable (P-MN-GAUGE) and the MagNum receiver are connected. The back-focus is shown with 1μm precision both on the displays of the digital gauge and the MagNum hand unit.

By adding one motor (e.g. CDM-100) focus control is available to the MagNum hand unit. To add a second motor for iris or zoom control the MagNum receiver is extended with the MagNum Extension Interface Module (MN-EXT-MOT-LP). This motor is controlled by the optional Zoom Rocker (MN-ZR) mounted at the back side of the MagNum hand unit.

---

**Description**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order No.</th>
<th>List Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MagNum power &amp; motor cable</td>
<td>P-MN-CABLE</td>
<td>350.00</td>
</tr>
<tr>
<td>MagNum 2-channel wireless FIZ control</td>
<td>MN-200</td>
<td>4,450.00</td>
</tr>
<tr>
<td>MagNum Extension Interface Module</td>
<td>MN-EXT-MOT-LP</td>
<td>1,490.00</td>
</tr>
<tr>
<td>MagNum Zoom Rocker for MagNum Hand Unit</td>
<td>MN-ZR</td>
<td>625.00</td>
</tr>
<tr>
<td>Chrosziel Digital Motor CDM-100</td>
<td>CDM-100</td>
<td>895.00</td>
</tr>
</tbody>
</table>
Contact details

Chief Officer Product, Marketing and Sales
Timm Stemann
timm.stemann@chrosziel.com

Senior Sales Manager
Sebastian Merkel
sebastian.merkel@chrosziel.com

Sales Manager
Marc Permien
marc.permien@chrosziel.com

About Chrosziel

Chrosziel innovates and manufactures fine precision mechanical, optical and electronic products with more than 40 years of experience. Chrosziel Professional Camera Accessories, Lens Control Systems and Lens Testing Instruments are widely used and respected in broadcast, cine, and lens service. The products are available in more than 50 countries worldwide.

Follow Chrosziel

Facebook: https://www.facebook.com/chrosziel
Twitter: https://twitter.com/chrosziel
Instagram: https://www.instagram.com/chrosziel
User Stories: https://www.chrosziel.com/userstories

Prices, specifications, and technical data are subject to change without notice

Chrosziel GmbH
Klausnerring 6
85551 Kirchheim/Munich
Germany
Phone: +49 89 90 10 910
Fax: +49 89 447 08 61
Mail: info@chrosziel.com
Web: https://www.chrosziel.com