Chrosziel
...the cinematographer´s choice

Lens Test Projector P-TP7II

Camera Simulation & 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-TP7II uses a Compound Parabolic Concentrator (CPC) instead of standard lens units.
This sophisticated light engine guarantees illumination uniformity.

Glass and Filter Inserts

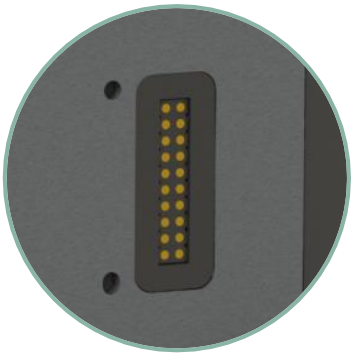
The 3x3” glass insert between lens mount and reticle accounts for the effects of optical low pass filters or sensor cover glasses (up to 5 mm thickness) in cameras. The 3x3” filter insert between light engine and reticle simulates specific color spectrums and temperatures with standard 3x3” filters (up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



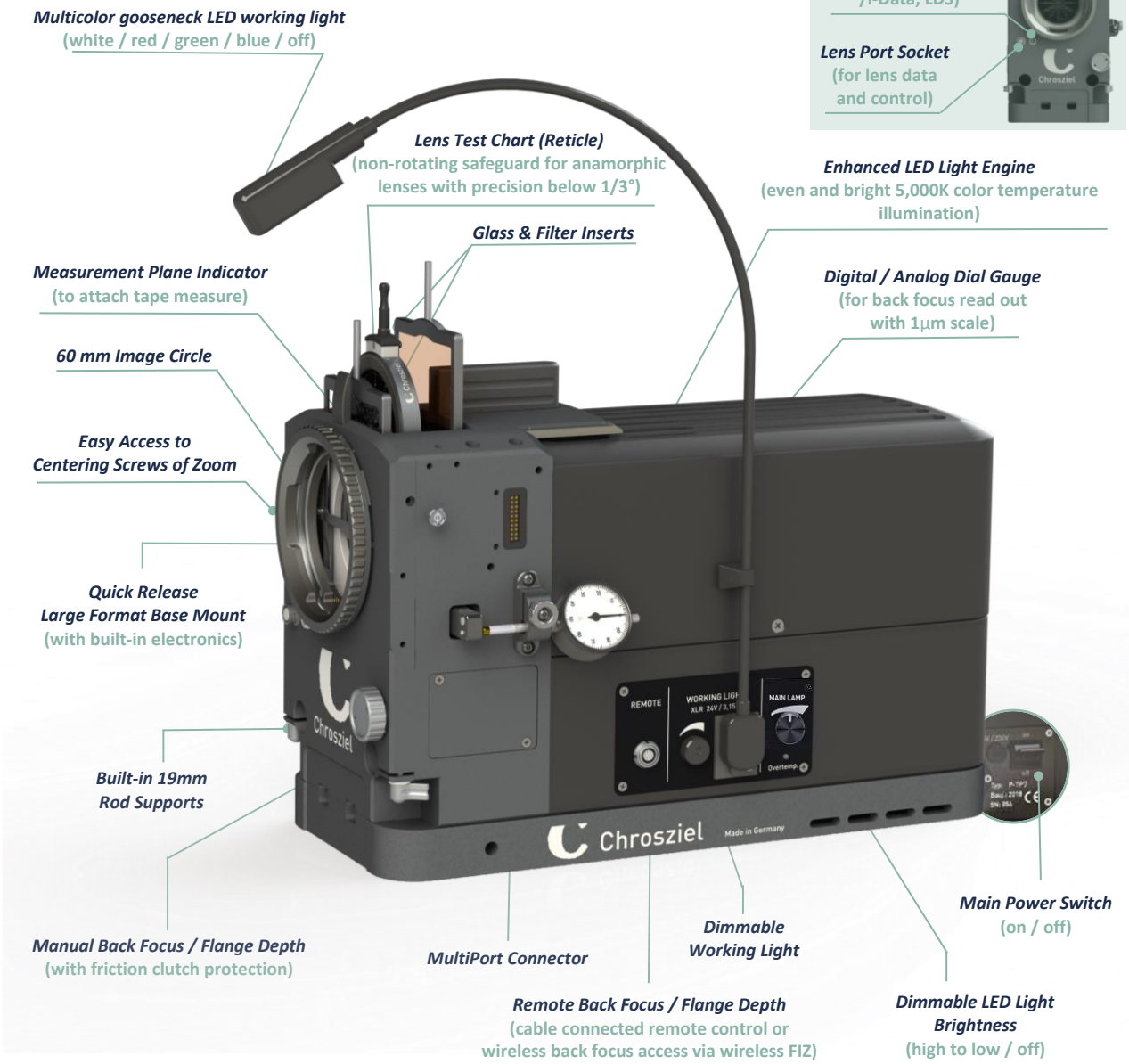
The electronic lens mounts and the lens data socket provide electrical power to the lens and enable read-out, controlling and programming of lens encoder positions (like /i-Data and LDS meta data). The lens port socket powers ENG / broadcast lenses and examines VTR, Return, and Follow Voltages.

Modularly Built System

The P-TP7II 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



What's in the box

In the box	1x Lens Test Projector P-TP7II 1x Remote control with 10m /33ft cable 1x Multicolor LED gooseneck working light 3x Power cable (US / EU / UK) 1x Measurement gauge analogue (1 µm scale) 1x Lens Support 2x 19mm rods
Order No.	P-TP7II

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:

P-ALPL-L

C-MBEF

Description

Mount type	Adapters Order No.	Measuring block sets Order No.
PL (Standard Pin Position)	P-APL-L	C-MBAPLII
PL (Anamorphic Pin Position)	P-APLA-L	C-MBAPLII
ARRI LPL	P-ALPL-L	C-MBALPLII
Canon EF	P-FMCEF-L	C-MBEF
Sony E	P-FMEII-L	C-MBSE

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:

C-MBAPA

Description

Mount type	Adapters Order No.	Measuring [illegible] Order No.
ARRI XPL	P-AXPL-L	C-MBAXPL
Panavision	P-APA-L	C-MBAPA
BNCR	P-ABNCR-L	C-MBBNCR
Aaton	P-AAA-L	
Arriflex standard & bayonet	P-ASTB-L	
C	P-ACM-L	
Nikon F bayonet	P-FMN-L	C-MBNF
Olympus	P-FMO-L	
Leica M bayonet	P-FMLM-L	C-MBLM
Leica L Mount	P-FMLL-L	C-MBLL
MFT (Micro 4/3)	C-FMMFT-L	C-MBMFT
RF	P-FMRF-L	C-MBEF

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

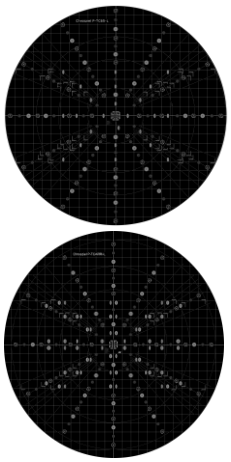
Description

Mount type	Adapters Order No.	Measuring block sets Order No.
B4 2/3“ HD, flange depth 65,03 mm	P-VMHD-L	C-MBHD-L
B4 Zeiss 2/3“ HD, flange depth 65,06mm	P-VMZ-L	
1/3“ HD, flange depth 41,99mm	P-VM13-L	C-MB13-L
B4 2/3“ SD ENG, flange depth 65,24mm	P-VMS-L	C-MBENG-L
Ikegami 2/3“ SD, flange depth 76,94mm	P-VMI-L	
Sony 1/2“ SD ENG, flange depth 52,71mm	P-VMS12-L	C-MBS12-L

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 Cine & Single Chip sensors



The P-TC65-L 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), round branches and camera formats (Super 35, RED Monstro / PV DXL2 8K Full Frame 1.9:1, 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).

The P-TCARRI-L 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), round branches and camera formats (Alexa 16:9 / 4:3 / open gate, Alexa LF 16:9 / open gate, Alexa 65 5.2K / open gate).

The P-TCOTTO-L 65 mm reticle shows line pair bars, Siemens stars (spherical / anamorphic 1.5x, 1.8x, 2x), image circles indicators (23 distances), round branches and camera formats (ARRI Alexa 65 OG / 5.1K, ARRI Alexa S35, ARRI Alexa LF OG / 16:9, ARRI Alexa Mini Pro Res, ARRI Alexa OG, Sony Venice 8.6K/6:5/17:9, Sony Venice (1) 5.7K 15:9, RED Monstro, RED Helium, RED Komodo, 65mm Film, 35mm Film , Full Frame, S16, GoPro).

Description

	Order No.
65 mm, Cine & Single Chip sensors	P-TC65-L
65 mm ARRI, Cine & Single Chip sensors	P-TCARRI-L
Otto Nemenz 65mm	P-TCOTTO-L

Small Format reticles

The traditional widely used Otto Nemenz reticle P-TCOTTOS35-L shows line pair bars, Siemens stars (spherical / anamorphic 2x), image circles indicators (12 distances) and camera formats (8 perf, Full Frame, ARRI Alexa OG / 4x3, RED Dragon 6KFF, RED Epic MX 6K / 5K / 3K, S16, HDTV, TV Trans, TV Safe).

The ANGENIEUX reticle P-TCANG-L shows line pair bars, patterned Siemens stars (spherical), image circles indicators (Radius 6.4 / 8 / 9.33 / 11.66 / 12.95 / 20.2mm, diameter 31.1 / 34.55 / 46.31mm) and camera formats (diameter 31.1mm (16:9 / 4:3, 34.55mm (16:9 / 4:3), 46.31mm (16:9)).

The Chrosziel HD ENG reticle P-TCHD-L shows a center dot, line pair bars, patterned Siemens stars (spherical), image circles indicators (4.4 / 8.8 / 11mm diameter) and camera formats (16:9 / 4:3).

Description

	Order No.
Otto Nemenz S35	P-TCOTTOS35-L
Angenieux Full Frame	P-TCANG-L
HD ENG camera S16	P-TCHD-L

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

	Order No.
Surcharge individual custom reticle (MOQ 3 pcs.)	P-TCIND-3
Surcharge individual custom reticle (MOQ 5 pcs.)	P-TCIND-5
Surcharge individual custom reticle (MOQ 10 pcs.)	P-TCIND-10
Surcharge individual custom reticle with company logo	P-TCLOGO

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.

P-LDM

Description

	Order No.
Laser Distance Measuring Device	P-LDM

MultiPort Data Converter to USB

The MultiPort data converter to USB transfers internal serial CAN bus 1 & 2, serial RS-232 and RS-422 signals via the MultiPort connectors and a standard USB cable to an external device 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.

P-USB-TP7

Description

	Order No.
MultiPort Data Converter to USB	P-USB-TP7

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.

P-LP-TP6

Description

	Order No.
Laser pointer	P-LP-TP6/7

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 RS232 connection cable connects via RS232 port with other devices for back-focus read-out (e.g. Chrosziel MagNum).

P-MN-Gauge

P-MG-D1

Description

	Order No.
Digital Measuring Gauge (1µm scale)	P-MG-D1
Digital Measuring Gauge (1µm scale, Bluetooth)	P-MG-DB
Digital Measuring Gauge RS232 connection cable	P-MN-GAUGE

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 is optimized to a tolerance of below 3 µm and features a precise antireflective optical coating, tempering and polishing. It is premounted in a 3x3 filter holder with spacer plate. Available are glasses with 2, 2.5 or 3 mm thickness. Please note that the glass blocks are not included in the standard delivery scope.

P-GLASS-3

Description

	Order No.
Glass block (3 mm thickness)	P-GLASS-3
Glass block (2.5 mm thickness)	P-GLASS-25
Glass block (2 mm thickness)	P-GLASS-2

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 RS232 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.

MN-ZR

MN-200

P-MN-CABLE

MN-EXT-MOT-LP

CDM-100

Description

	Order No.
MagNum power & motor cable	P-MN-CABLE
MagNum 2-channel wireless FIZ control	MN-200
MagNum Extension Interface Module	MN-EXT-MOT-LP
MagNum Zoom Rocker for MagNum Hand Unit	MN-ZR
Chrosziel Digital Motor CDM-100	CDM-100

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