

Home Editorial Weddings Glamour Fashion

Portraits Wildlife Landscapes Blog

teo@t-  
e-  
o.net

Contact

Mamiya 645 and Phase One Lens Test | 15 lenses | Review

Home / Phase One / Mamiya 645 and Phase One...

## Mamiya 645 and Phase One Lens Test

I decided to do some testing of my medium format lenses /Phase One Mount/ for my own use. But I think it is much better to share it with broader audience.

### Test was done with following conditions:

Camera: [Phase One DF](#)

Digital Back: [Leaf Aptus 75](#)

Tripod: Manfrotto 055XPROB with Manfrotto 222 head

Self Timer: 3 sec

Distance: 1 meter /only 55-110 was shot at 1.5 meters/

Settings: ISO50, Manual Mode

Speed: 1/50 for f4 lenses, 1/100 for f2.8 lenses and 1/200 for f2.0 lenses

Focus Mode: Autofocus lenses were tested only with autofocus /S mode/. Manual focus lenses were focused with focus confirmation on camera.

Test Target: Distance to from camera was 1.0 meters and target have 3 lines with font sizes:1,2,3

All lenses were tested with 2 shoots, and from following lenses I have 2 copies each:

– *Schneider Kreuznach 80mm LS f/2.8 ; Mamiya 80mm AF f2.8 ; Mamiya 150mm AF f3.5*

All copies have given same result.

List of all lenses:

*AF-D: Schneider Kreuznach 80mm AF LS f/2.8, Macro 120/4.0 MF D*

*AF lenses /not D/ were: 150/3.5 AF (2 copies tested), 80/2.8 AF (2 copies tested), 55/2.8 AF, 45/2.8 AF, 35/3.5 AF, 55-110/4.5 AF*

*MF: 24/4.0, 30/3.5, 80/1.9, 80/4.0, 110/2.0, 110/2.8, 140/1.8, 150/3.5*

*Haven't test yet: 150/2.8 – too big minimum distance and 105-210/4.5 AF as it didn't work with my current body*

And here comes the test results.

Here it is how I would rate lenses for center Sharpness and Bokeh:

**Premier league:**

Mamiya 120mm f4.0 D /Manual Focus/ – Sharpness: 10 Bokeh: 5 (D Version) – [MTF for Phase One /](#)

[Mamiya 120mm Macro Phase One 120mm f/4 D Macro MF Specifications](#)

Mamiya 80mm f4.0 MF – Sharpness: 10 Bokeh: 5 (C Version)

Schneider Kreuznach 80mm AF LS f/2.8 – Sharpness: 9 Bokeh: 6 (2 copies tested) – [MTF for Schneider](#)

[Kreuznach 80mm f/2.8 LS Schneider Kreuznach 80mm f2.8 LS Specifications](#)

Mamiya 24mm f4.0 MF Fisheye – Sharpness: 9 Bokeh: 3 (C Version)

Zeiss 110mm f2.0 /Hasselblad V/ – Sharpness: 8 Bokeh: 9 (F Version) – [MFT for Zeiss 110/2.0 Zeiss 110mm](#)

[f2.0 Specifications](#)

Mamiya 110mm MF f2.8 – Sharpness: 9 Bokeh: 6 /not shown in photos/

**Very Good:**

Mamiya 80mm AF f2.8 – Sharpness: 7 Bokeh: 7 (non D version, 2 copies tested)

Mamiya 80mm MF f1.9 – Sharpness: 6 Bokeh: 8 (N Version)

Mamiya 55mm AF f2.8 – Sharpness: 6 Bokeh: 5 (non D version)

Mamiya 45mm AF f2.8 – Sharpness: 6 Bokeh: 5 (non D version)

Mamiya 150mm MF f3.5 – Sharpness: 6 Bokeh: 6 (2 copies tested)

**Good:**

Mamiya 35mm AF f3.5 – Sharpness: 5 Bokeh: 5 (non D version)

Mamiya 55-110mm AF f4.5 – Sharpness: 5 Bokeh: 5 (non D version)

Mamiya 150mm AF f3.5 – Sharpness: 5 Bokeh: 6 (non D version)

**Poor:**

Russian Lens 35KP 140mm MF f1.8 – Sharpness: 2 Bokeh: 10

Russian Arsat 30mm f3.5 Fisheye – Sharpness: 1 Bokeh: 1

Haven't test yet: 150/2.8 MF- too big minimum focus distance and Mamiya105-210/4.5 AF as it didn't work with my current body

First center sharpness:

Center 100% crop of 200x200px for each lens:



Here are individual photos showing bokeh of Mamiya / Phase one lenses:

[/right click on images and select open in new window to see them in full resolution/](#)

#### Premier League Lenses:

Mamiya 120mm f4.0 D /Manual Focus/ – Sharpness: 10 Bokeh: 5

Mamiya 80mm f4.0 MF – Sharpness: 10 Bokeh: 5

Schneider Kreuznach 80mm AF LS f/2.8 – Sharpness: 9 Bokeh: 6

Mamiya 24mm f4.0 MF Fisheye – Sharpness: 9 Bokeh: 3

Zeiss /Hasselblad V/ 110mm f2.0 – Sharpness: 8 Bokeh: 9

Mamiya 110mm MF f2.8 – Sharpness: 9 Bokeh: 7 /not shown in photos/

#### Very Good:

Mamiya 80mm AF f2.8 – Sharpness: 7 Bokeh: 7

Mamiya 80mm MF f1.9 – Sharpness: 6 Bokeh: 8

Mamiya 55mm AF f2.8 – Sharpness: 6 Bokeh: 5



Mamiya 120mm f4.0 D /



Mamiya 80mm f4.0 MF



Schneider Kreuznach 80mm AF LS f/2.8



Mamiya 24mm f4.0 MF Fisheye



Zeiss 110mm f2.0 /Hasselblad V/



Mamiya 80mm AF f2.8 Lens



Mamiya 80mm MF f/9 Lens



Mamiya 55mm AF f/2.8



Mamiya 45mm AF f2.8 Lens



Mamiya 150mm MF f3.5



Good:

Mamiya 35mm AF f<sub>3.5</sub> – Sharpness: 5 Bokeh: 5



Mamiya 35mm AF f<sub>3.5</sub> Lens

Mamiya 55-110mm AF f<sub>4.5</sub> (at 1.5m) – Sharpness: 5 Bokeh: 5

Mamiya 150mm AF f<sub>3.5</sub> – Sharpness: 5 Bokeh: 6

Poor:

Russian Projector Lens 35KP 140mm MF f<sub>1.8</sub> – Sharpness: 2 Bokeh: 10 /cover 48×36 sensor without vignetting! – (shot at 0.7m due to currently use as fixed focus lens, I'm still waiting for focusing helicoid)

Russian Arsat 30mm f<sub>3.5</sub> Fisheye – Sharpness: 1 Bokeh: 1

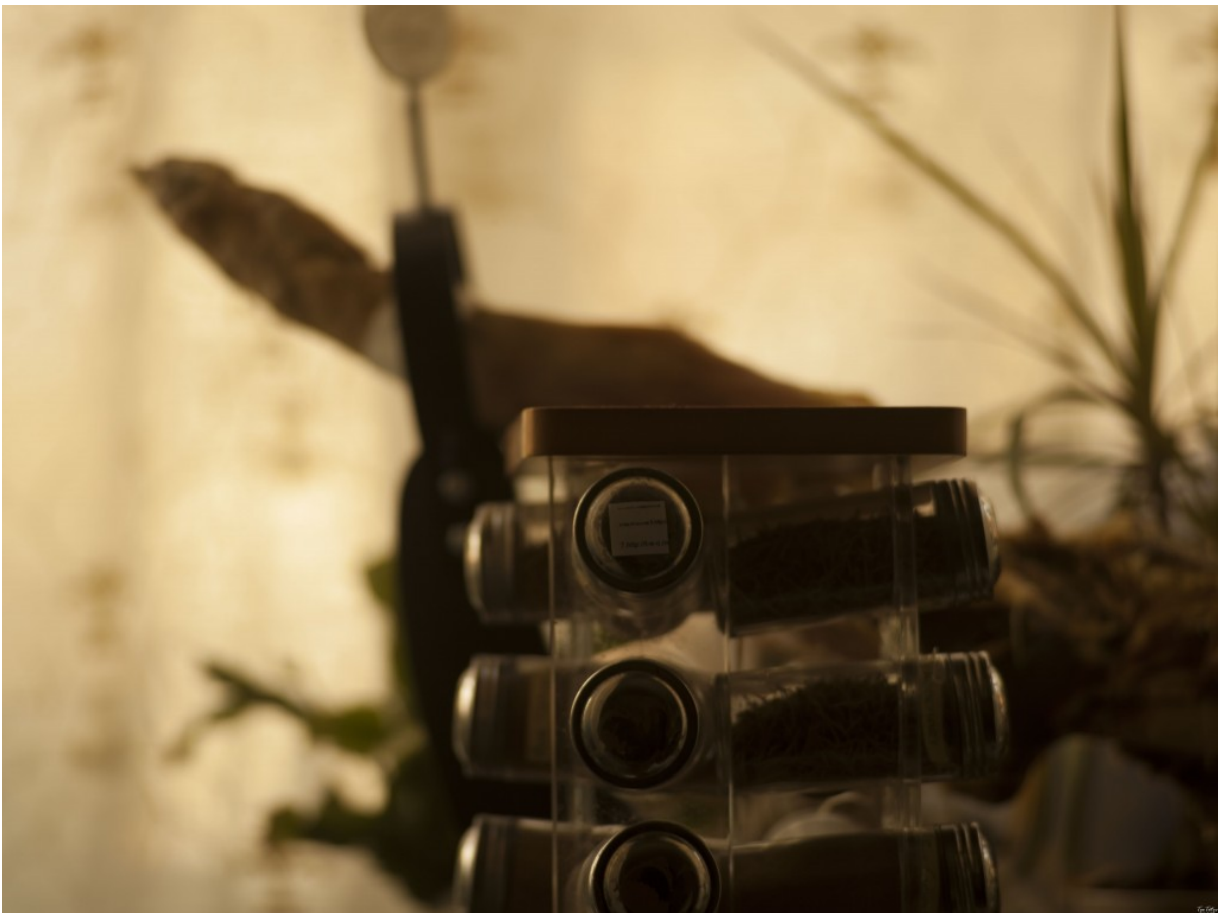
I hope that you enjoy this Mamiya 645 and Phase One Lens Test and it will help you decide which lens you need.

I will add in next days also photos for Mamiya 110mm f<sub>2.8</sub> MF, Mamiya 150mm f<sub>2.8</sub> MF and Mamiya 105-210mm f<sub>4.5</sub> AF as they were not included in this test.

Related posts



Mamiya 55-110mm AF f4,5 Lens



Mamiya 150mm AF f3,5 Lens



Russian Lens 35KP 140mm MF f1.8



Russian Arsat 30mm f3.5 Fisheye

Please follow and like us:



o

Tweet

Save

0

[Share](#)

3 Comments

**Kristoffer Trolle**[June 27, 2017 at 10:09 am](#)

Thanks for the great test, very interesting! Price vs performance the Mamiya 80mm f4 looks like the best deal: but that is a macro lens? Dose it also preform as well on long distances?

[← Reply](#)**Teo Totev**[September 26, 2017 at 7:51 pm](#)

Hi Kristoffer,

I will have to redo the test, as I have acquired some modern Schneider Kreuznach Leaf shutter Lenses since I have done this test.

And I will probably do it at 2 meter distance this time.

[← Reply](#)**Jorgen**[June 11, 2018 at 3:07 am](#)

Hi,

Very interesting test. Thank you for the effort. This immediately led to the purchase of the 80mm f/4 macro.

If you're going to repeat this test, it would be even more useful if you, in addition to shooting each lens wide open, shot all of them at f/4 or f/5.6, thereby comparing them at the same aperture.

[← Reply](#)

Leave a Reply

Your email address will not be published. Required fields are marked \*

Comment

Name\*

Email\*

Website

---

[clear form](#) ✕