Lens\$db: Lens Price Database, version 16

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Acknowledgements

I am grateful to the many people who share photography information online. I attempt to acknowledge all sources I have used (except eBay sales), and I apologize to any sources I may have missed.

Special Note on www links in .pdf files

Not all internet links in the **.pdf** document files work properly, due to a limitation of the freeware that I used to prepare these files. The embedded links only work properly for a valid and complete **url**; e.g. <u>www.jcolwell.ca</u> or http://photonotes.org, and so a named link like Bob's Planet EOS doesn't work. I decided not to put complete **url** strings for all links in the main document, but the links in Annex B are all complete - you can see that some of the **urls** are quite long and cryptic. So, if you find a dud link, you should be able to find a usable version of it in Annex B.

Disclaimers

I try to be accurate but I'm sure there are errors and omissions - use Lens\$db at your own risk.

Many of the prices in Lens\$db are from "Other Suppliers" which are mostly camera shops with online inventories of used gear. These prices may not be the lowest available, and the items may not be still available. I can't guarantee that these Other Suppliers are reliable, but I've personally had consistently good results.

I am not affiliated in any way with makers or sellers of the products mentioned in Lens\$db.

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1 Introduction

The Lens Price Database, Lens\$db, has prices and physical specifications for over 400 lenses, including: all Canon EF prime lenses and EF Extenders; all Canon EF L-series zoom lenses, plus a few others; a large selection of "alternative" manual focus lenses from Carl Zeiss, Leica, Nikon, Olympus, Pentax, Voigtlander, and other brands; a variety of lenses from Sigma, Tamron and Tokina; and, a selection of Medium Format Mamiya 645 lenses that are more-or-less compatible with EOS cameras, and with the Mirex Tilt-Shift adapter. The prices are mostly for used equipment in excellent to mint condition, based on eBay sales and list prices at many camera stores.

The general approach used to create Lens\$db is based on techniques developed for the earlier SMC Pentax Lenses and Other Stuff Database (SPLOSdb) and the Canon EF Lenses and Other Stuff Database (CELOSdb), which are now in an archive section of www.jcolwell.ca. The original SPLOSdb documentation describes methods for optimizing eBay searches and discusses issues related to buying used gear. The section on eBay prices later in this document provides some common sense suggestions on how to approach doing eBusiness, and a Used Lens Check List is provided in the Equipment pages of www.jcolwell.ca for your use, good luck.

2 Overview

Lens\$db contains two types of information:

- i. physical specifications, such as minimum focus distance, weight, dimensions, etc.; and,
- ii. current selling prices on eBay, and (separately) current list prices from online camera stores.

The database is implemented as a MS Excel spreadsheet, with the following worksheets:

- i information
- EFp Canon EF prime lenses and EF Extenders
- EFz Canon EF L series zoom lenses (plus a few others)
- CZ.V Carl Zeiss ZE, C/Y and N, plus Voigtlander and etc.
- LNOP Leica-R (2- & 3-cam, not ROM), Nikon AI/S, Olympus, Pentax, and a few more
- STT Sigma, Tamron, and Tokina
- M645 Mamiya 645 medium format lenses, plus a few more

The database and its documentation are distributed as **.pdf** and **.xls** files. Annex A defines abbreviations and acronyms, Annex B summarizes links, and Annex C lists the camera stores considered for Lens\$db. Annexes B and C are also available online as separate html documents. See the special note on www links in **.pdf** files on the Copyright Notice page.

2.1 Dates

Dates are shown as year and month: .YY-MM. For example .11-01 is January 2011.

3 Prices

All prices are in US dollars. eBay prices are for items sold, and camera store prices are list prices of items for sale. A price in **bold font** indicates the item was described as 'new' (this does not include items described as 'like new').

3.1 Price Categories

Lens\$db prices are recorded in four categories:

- 1. [E to E++] for eBay;
- 2. [M- to N] for eBay;
- 3. [E to E++] for camera stores; and,
- 4. [M- to N] for camera stores.

[E to E++] is *Excellent* or better; the lens has clean & clear optics and is fully functional, there may be external wear on the body and control rings, and maybe a *little* dust inside, but nothing to reduce the image quality; this category includes common condition ratings: E, E+, E++, 9, and 9+, also some E- and 8+, depending on the supplier.

[M- to N] is *Near Mint* or better; the lens is really clean, it looks barely used, and it functions perfectly, this category includes common condition ratings: M-, M, LN, N, NIB, 10-, 10, also some E+, E++ and 9+, depending on the supplier.

3.2 eBay Prices

Most of the eBay prices are the computed average of two or more individual sales, up to a maximum of about ten sales (older prices are discarded as newer ones are recorded). If you use the Excel version of Lens\$db, then you can click on a price to see how many sales are included in the average. When more than one price is shown for an item, the left-most price is the most recent sale, which corresponds to the date in the next column. For example, the price of \$1614 (US) for the Canon EF 70-200/2.8 L IS USM in [M-] to [N] condition is the average of 8 recent sales; with a minimum price of \$1425, maximum price of \$1726, and standard deviation of \$110. The left-most price of \$1525 was recorded in .11-01 (January 2011)

For what it's worth, here are a few comments on buying from eBay: you should exercise intelligent caution, if it looks too good to be true then it's probably a scam; you should do enough research to know what you want and how much it is worth; do not make assumptions, always ask questions to get the information you need to make good decisions; and finally, set your budget and stick to it, so you don't get caught up in a bidding frenzy - it's your money, spend it wisely.

3.3 Camera Store Prices

Lens\$db prices from camera stores are the list prices of items for sale. Lens\$db usually shows the lowest price for any particular item, but not always. In some cases, a more expensive item is shown, if it is in better condition and close in price. For example, if one store has an EF 50/1.4 USM rated [E] for \$275 and another has one rated [E+] for \$290, then Lens\$db would probably list the price and supplier for the [E+] lens. Also, if there is no listing for this lens in the [M- to N] category, then Lens\$db would list both; the first in [E to E++] and the second in [M- to N].

Most of the camera stores cited in Lens\$db have online inventories and are located in Canada and the USA. Annex C shows the abbreviation, name, location, and url for all of the camera stores included in Lens\$db. The 'star' ratings in the first column of Annex C are: no-star, one-star (*) and two-star (**). Two star is the best, but all of these stores are worth a visit; virtual or (if possible) real. The ratings are based on my personal opinion of many factors, including; depth and breadth of inventory; price, customer service (for those I have dealt with), turnover, and web site (KISS).

Note that while some online camera shops in the UK are very good in terms of the number and variety of products that they stock, their prices are often high in comparison with those in Canada and US; however, UK list prices include relatively high sales taxes which may be refundable for international buyers from outside the EU.

You can find links to many camera stores at:

4 Lens Specifications, Data Sources and Links

4.1 35mm Lenses

Lens\$db lens specification data for 35mm lenses includes:

f focal length (mm)

f/ maximum aperture

f(1.6) equivalent focal length (mm), based on angle of view, on a x1.6 'crop factor' camera:

such as 50D and 450D (i.e. xxD and xxxD families)

mt type of lens/body mount (mt = EF for Canon EOS lenses)

MFD minimum focus distance (m)

wt weight (kg), not including caps or (if required) adapter

L minimum length (mm) at infinity focus and, for zooms, at most compact focal length

D maximum diameter (mm)

Df filter diameter

35mm lens specification data are from the sources listed below.

Canon Canada www.canon.ca

Canon USA www.usa.canon.com

Canon Camera Museum www.canon.com/camera-museum

Canon, EOS documentation project http://www.eosdoc.com/

Canon, Eric's Photos http://canid.com/canon_ef_lenses.html

Carl Zeiss www.zeiss.de, especially the Contax Download Centre > Historical Data Sheets

Leica R www.leica-camera.com

M42, Exataphile www.captjack.exaktaphile.com

M42, Praktica Users Group www.praktica-users.com

Nikon Lens Specifications, Roland Vink http://home19.inet.tele.dk/ne/nikon.htm

Olympus: The Unofficial Olympus Sales Information File http://vanveluwen.nl/eSIF/

Pentax K, Bojidar Dimitrov www.BDimitrov.de/kmp

Pentax K, Pentax Canada www.pentaxcanada.com

Pentax K, Pentax USA www.pentaximaging.com

Pentax M42, Asahi Optical Historical Club, AOHC, www.aohc.it

Pentax M42, Peter Jonkman http://www.spotmatic.web-page.net/ (now offline)

photodo MTF test pages (if you can find them) www.photodo.com

Sigma www.sigmaphoto.com

Tamron www.tamron.com

Tokina www.thkphoto.com

Voigtlander (and more), Stephen Gandy's Camera Quest www.cameraquest.com/voigtlen.htm

For general information on EOS and other photography topics, see:

<u>photo.net</u> <u>PhotoNotes.org</u> <u>PhotoZone</u> <u>EOS Lens FAQ Fred Miranda</u> <u>16-9 Luminous Landscape</u> <u>The Digital Picture</u> <u>Photography in Malaysia</u> <u>Reptile Garden</u> <u>Lin Chan Hin</u> <u>Tan Chung</u> <u>Monaghan's Megasite</u> (unfortunately, most of the Monaghan links are now offline), and finally, TJ Asher's thoughts on <u>Here's what lens to buy</u>.

4.2 Using Manual Lenses on Canon EOS Bodies

Many lens mounts, such as the Contax/Yashica (for Carl Zeiss Contax lenses), Leica R, Nikon F (AI, AIS, etc.), and M42 (aka Pentax screw or universal screw), have readily available mechanical adapters for Canon EOS bodies. Pentax K-mount lenses can also be mounted on Canon EOS bodies; however, the lens must be modified by trimming or removing its aperture control lever and lever shield before it can be used on an EOS full frame camera (e.g. 5D, 1Ds) or 1.3x crop-factor (CF) body (e.g. 1D2, 1D3). Most Pentax K-mount lenses will fit on 1.6x CF bodies (e.g. 30D, XTi) without lens modifications. Some of the really excellent Contax Carl Zeiss and Leica R alternative lenses have "mirror clearance" issues with EOS full frame and 1.3x CF bodies; see the 'compatibility' links, below.

Lens mount adapters allow you to physically mount a non-EF lens on an EOS body, but they only enable manual focus and manual or "stop-down" aperture control, as discussed in some of the links below. You can also get adapters with a focus-confirmation chip that causes the EOS body to show a focus-confirmation flash of the AF focus point indicator(s) when the image is in focus. This is often called AF-confirmation. It is possible to modify a Contax N AF lens to fit on an EOS body and preserve its AF and auto-aperture operation (now controlled by the EOS body), but I'm not in that deep, at least not yet.

Good sources of general information on this topic are <u>Using manual lenses and telescopes with EOS cameras</u> by NK Guy, and <u>Using Manual Focus Lenses on Canon EOS bodies</u> by Bob Atkins. You can get important lens data, especially the "register", at <u>W.J. Markerink's Camera Mounts and Registers Page</u>, and you often determine just exactly what type of mount is on a particular lens by looking at <u>Rick Oleson's lens mount pages</u>. Unfortunately, many lens adapter and mount pages at <u>Robert Monaghan's Megasite for Third Party Lenses</u> are currently offline, but it's worth checking occasionally in case they come back. Also, see the definitions in Annex A for aa, ma and ps, for a brief discussion of some aperture control issues.

Finally, the <u>Alternative Digital Systems & Lenses</u> and <u>Canon-mount SLRs</u> forums at <u>Fred Miranda</u>, and the <u>Canon EOS Forum</u> at <u>photo.net</u> are great places to gain knowledge through lurking, and even better, by posting questions. Here are links to some threads on this topic that you might find interesting:

Pentax to EOS alt lens questions
Altering Pentax K Mount to Canon Eos 5D
5D adapter for Contax, or for rollei
OM or FD on Canon
Canon 5D and Zeiss lenses - What to look for?
Non-CPU lenses on 5D
Nikon F mount lenses to EOS body adapter
Practicality of M42 telephoto to XT and film bodies;
K and M42 lenses on EOS
Problems with stop down pin from Adaptall2-M42-EOS
16-9.net Canon 5D Adapted Lens Compatibility lists
Contax Canon compatibility database
Canon Leica-R compatibility database
Zeiss/Oly -> 5D Compatibility List

5 Concluding Remarks

The Lens Price Database, Lens\$db, has prices and physical specifications for over 400 lenses, including: all Canon EF prime lenses and EF Extenders; all Canon EF L-series zoom lenses, plus a few others; a large selection of "alternative" manual focus lenses from Carl Zeiss, Leica, Nikon, Olympus, Pentax, Voigtlander, and other brands; a variety of lenses from Sigma, Tamron and Tokina; and, a selection of Medium Format Mamiya 645 lenses that are more-or-less compatible with EOS cameras, and with the Mirex Tilt-Shift adapter. The prices are mostly for used equipment in excellent to mint condition, based on eBay sales and list prices at many camera stores.

Annex A: Abbreviations and Acronyms

Upper case acronyms are usually part of an item's name (e.g. AL for aspherical elements), or an abbreviation for a common descriptive phrase (e.g. MF for manual focus); lower case acronyms and symbols are usually my annotations.

Symbol	Description		
[name]	lens manufacturer (as opposed to brand name on the label)		
1:n	macro magnification 1 to 'n'; 1:1 is life-size image on film, 1:2 is half of life size,		
4/3	four thirds mount and system		
A2	Adaptall 2 Tamron MF mount: A2 to EF adapters are scarce, but you can use the fairly common A2 to M42 adapter in a very common M42 to EF adapter (works fine).		
aa	auto-aperture: typical aperture control for modern lenses (with and without a manual aperture control ring); the lens is "wide-open" for metering and finder viewing; when the shutter button is pushed, the camera automatically "stops down" to the appropriate "taking" aperture (either user-selected or set by the camera for AE modes); note that the (aa) pin on a M42 lens is not used by a Canon EOS body, and so it is desirable for a M42 lens to have a manual/auto aperture switch to enable (ma) with "stop-down" metering, some M42 adapters have a flange to depress the (aa) pin, but it should not be used on more recent "2 pin" M42 lenses as it contacts and grinds against the diaphragm coupling lever, see www.aohc.it/tak00e.htm for a description of Asahi Pentax M42 mounts.		
AE auto-exposure mode: camera body selects Av and/or Tv for 'automatic' expo			
AF autofocus			
AI, AIS	types of Nikon manual focus F-mount lenses, Nikon-F to EF adapters are available		
aka also known as (or labeled as)			
AL	aspherical lens elements (same as ASP)		
AOC	angle of coverage		
AOV	angle of view		
APS-C	digital sensor format (size), Canon 22.3mm x 14.9mm (1.6x CF)		
APO	apochromatic lens, special coatings and/or special glass to reduce colour aberration		
ASP	aspherical lens elements (same as AL)		
aux	auxiliary lens, usually screws on to filter threads of the 'real' or 'primary' lens		
Av	aperture value; camera setting "Av" indicates Aperture-Priority AE mode math: Av = log(Nf)/log(√2)		
BBAR	broad band anti-reflection (Tamron coating)		
bi	"built-in" filters, most common on wide angle lenses		
C645	Contax manual focus 645 medium format lens mount system		
CA	colour aberration		
Cat	Catadioptric lens (mirror)		
C.O.	clip on (filter)		
CF	crop factor for a digital camera, or close focus for a lens		
CP, CPL	circular polarizer (filter)		
CV	Cosina Voigtlander (Voigtlander lenses made by Cosina)		
CY, C/Y	Contax/Yashica mount (for Carl Zeiss lenses), CY to EF adapter is available		
(continued)			

Annex A: Abbreviations and Acronyms (continued)

	Description		
D column in database, d = maximum diameter of lens barrel (mm)			
Da	apparent diameter of maximum aperture when viewed through the front of the lens		
d.i.	"drop in" filters go in a slot near the rear of lens, allows use of small diameter filters on large diameter lenses (e.g. 400/2.8)		
DC	Sigma lens series for APS-C DSLR, reduced image circle		
Df	column in database, Df = filter thread diameter (mm)		
DG	Sigma lens xxx		
Dmin	column in database, Dmin = minimum focus distance (m), from film plane to object		
DO	Diffractive Optics, enables "long" telephoto lenses to be relatively short in length		
DSLR	digital SLR		
E	excellent lens condition (see Section 3.1)		
E++	excellent ++ lens condition (see Section 3.1)		
EBC	Electron Beam Coating, Fujifilm lens multi-coating		
ED	extra-low dispersion elements in lens (see APO)		
EF	Electro Focus, Canon autofocus lenses for EOS (focus motor is in the lens)		
EF-M	Canon manual focus EF mount lens (this abbreviation is not used by Canon)		
EF-S	EF-Short back focus, Canon autofocus EF mount lens for relatively small APS-C sized image sensors, only for use on Canon EOS 20D, Digital Rebel and Digital Rebel XT		
EOS	Electro-Optical System, Canon autofocus system, includes EF lenses, EOS cameras, etc		
$\equiv V$ exposure value $math$: $\equiv V = Tv + Av$			
EX	Sigma pro lens designation		
f	focal length		
f/ aperture f-number, math: "f/" = Nf = f / da			
f/ min	minimum F-stop number (maximum aperture), lens wide open		
f/ max	maximum F-stop number (minimum aperture), lens stopped down all the way		
f.20D	equivalent focal length when using lens on a Canon 20D digital camera (x1.6 CF)		
F	Nikon mount and many 35mm systems, includes pre-Al, Al, AlS, P, AF		
FE (x/y)	fish eye: x = diagonal AoV, y = image diameter (35mm film image is 24mm x 36mm)		
FF	 full frame image sensor (dSLR sensor 36mm x 24mm) flat field, macro design to focus on single plane, good for pics of flat things 		
FOV	field of view, similar to AOV, but less specific		
FT, 4/3	four thirds mount and system		
FTM	Full Time Manual, manual focus ring on an AF lens can be used at any time, see USM		
FREE	fixed rear-element extension (focusing mechanism)		
GND	graduated neutral density filter (with "soft" or "hard" edge/ transition btw light & dark)		
IF	internal focus: barrel length does not change, front element does not rotate		
IQ	image quality		
IS	Image Stabilizer		
(continued)			

Annex A: Abbreviations and Acronyms (continued)

sensor or film sensitivity (ISO = International Standards Organization) Pentax K-mount, see http://www.bdimitrov.de/kmp/ We my name for the Pentax K-mount lens to Canon EOS body adapter, the lens aa apertu control lever must be removed, making it a (ma) lens, which is also MF. Keep It Simple, Stupid column in database, L = length of lens (mm), front of lens to mount plate, at infinity focus		
Meos my name for the Pentax K-mount lens to Canon EOS body adapter, the lens as aperture control lever must be removed, making it a (ma) lens, which is also MF. MISS Keep It Simple, Stupid column in database, L = length of lens (mm), front of lens to mount plate, at infinity focus		
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column in database, L = length of lens (mm), front of lens to mount plate, at infinity focus		
indicates Canon professional lens series (e.g. EF 85/1.2 L USM): apparently, L stands for "Luxury", but I can't find substantiation for this common belief, see the "Canon FAQ" at www.photozone.de/8Reviews/canonFAQ.htm for a good discussion of L series lenses		
.N in Lens\$db, Like New condition		
_NIB Like New In Box		
LD low dispersion glass (see ED, APO)		
.F Large Format (4x5 and bigger)		
.M Leica bayonet mount for 35mm M series rangefinders, not compatible with EOS bodies		
.R Leica R mount, LR to EOS adapter is available		
S Leica screw mount for 35mm rangefinder cameras - not compatible with EOS bodies		
.TM Leica thread mount for 35mm rangefinder cameras - not compatible with EOS bodies		
mint lens condition, see Section 3.1		
M- mint - (minus) lens condition, see Section 3.1		
M34, M3/4 micro Four-Thirds mount and camera system		
M39 39mm diameter screw mount, used by LTM		
micro Four-Thirds mount and system, a.k.a. mFT		
42mm diameter screw mount for MF lenses, aka 'Pentax screw', 'universal screw', etc., used on Pentax Takumar series and many other brands (not all old), see Section 4.3.		
M645 Mamiya manual focus 645 medium format lens mount system		
manual aperture: "stop-down" metering, the aperture opens and closes as the aperture ring is rotated; in practice, you compose and focus with the lens wide open, and the manually "stop down" to the "taking" aperture just before taking the shot.		
MF (1) manual focus, or (2) medium format		
MFD minimum focus distance		
mFT micro Four-Thirds mount and system, a.k.a. m4/3		
MP-E Canon EOS "Macro Photo" manual focus EF lens mount (so far, the only MP-E is 65/2.8		
nt column in database for lens/body mount (e.g. EF, M42)		
Contax 35mm AF lens mount and camera system		
new lens condition, see Section 3.1		
ND neutral density filter		
f-stop number (aperture) math: Nf = "f/" = f / da = $(\sqrt{2})^A$ v(square root 2 to power of Av)		
continued)		

Annex A: Abbreviations and Acronyms (continued)

Symbol	Description	
OM	Olympus 35mm manual focus mount and system	
OOF	out of focus	
OS	Optical Stabilization (Sigma IS)	
P645	Pentax manual focus 645 medium format lens mount system	
рр	push-pull zoom (one touch): push-pull to zoom, twist to focus	
PP	post-processing (software image modification)	
ps	pre-set aperture: two aperture control rings; one ring is used to set a 'stop' at the desired taking aperture, and the other ring is used to open the aperture for viewing and then close it to the 'pre-set' aperture for exposure, this is a form of "stop-down" metering, see (ma)	
QRB	Quick Release Bayonet, Rollei 35mm mount and system	
R	Leica 35mm SLR lens mount and system	
RF	rangefinder camera	
rg	"rear gel" filter	
rfe	rotating front element (filter ring rotates as lens is focused)	
rl	rectilinear: straight lines appear straight (as opposed to FE circular distortion)	
S.1	abbreviation in database, Vivitar Series 1 (pro-series from mid-70's to early-90's)	
sh. shutter size		
SL35 Rollei 35mm quick release bayonet lens mount, same as QRB		
SLR	Single Lens Reflex (reflex = mirror, not moving mirror)	
SMC	Super Multi-Coated (c), Pentax	
SSS	Sun/Sigma/Spiratone conglomeration of 3 rd party lenses (Accura, Lentar, Upsilon)	
t	inverse of shutter speed: for example, t = 500 for shutter speed of 1/500 sec <i>math</i> : t = 2^Tv(two to the power of Tv)	
T-S, TS	tilt-shift	
TS-E	Canon EOS "Tilt and Shift" manual focus EF mount lens, tilt controls plane of focus, shift controls perspective (vanishing point)	
Tv	time value, camera setting "Tv" indicates Shutter-Priority AE mode math: Tv = log(t))/log(2)	
T,T2,T4,TX	3rd party MF lens mount: mostly Vivitar, some Tamron & others, M42 adapters available	
TLR	twin lens reflex (reflex = mirror, not moving mirror)	
tt	two-touch zoom (separate zoom & focus rings)	
USM	Ultrasonic Motor, advanced Canon EF AF system, most are FTM, see the Canon Museum	
UWA	ultra-wide angle, focal lengths of about 20mm and wider (i.e. shorter) on FF bodies	
vf	varifocal: focus changes while zooming	
VMC	Vivitar Multi Coating	
VC	Vibration Compensation (Tamron IS)	
VR	Vibration Reduction (Nikon IS)	
wt	column in database, wt = weight of lens (kg), no caps, includes shutter for LF lenses.	
YS	3rd party MF lens mount: mostly Sun/Sigma/Spiratone, M42 adapters available	

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Annex B: Links

General Information

http://www.photo.net photo.net, Greenspun & Atkins (et al)

http://www.photonotes.org PhotoNotes.org, NK Guy
http://www.photozone.de PhotoZone, Klaus Schroiff

http://www.fredmiranda.com Fred Miranda

http://medfmt.8k.com/third/index.html Robert Monaghan's "Megasite"

http://mir.com.my/rb/photography/ Photography in Malaysia, Leonard Foo http://www.fredmiranda.com/forum/topic2/356712 Here's what lens to buy, by TJ Asher

Canon EF lenses and other EOS stuff:

http://canid.com/canon_ef_lenses.html Eric's Photos

http://members.tripod.com/~Photography 2/ownreview.htm Lim Chan Hin (no recent updates)
http://photo.net/bboard/forum?topic_id=1545 photo.net Canon EOS Forum

http://wlcastleman.com William Castleman

http://www.16-9.net Mark Hubsand 16-9 tests & lots more

http://www.canon.ca Canon Canada

http://www.canon.com/camera-museum Canon Camera Museum

http://www.eosdoc.com/ EOS Documentation Project

http://www.fredmiranda.com/forum/board/2 Fred Miranda Canon-mount SLRs forum

http://www.luminous-landscape.com/ Michael Reichmann

http://www.photozone.de/8Reviews/canonFAQ.htm PhotoZone Canon EOS Lens FAQ

http://www.rgarden.glandrake.com/index.html Reptile Garden Photography

http://www.tanchung.com/canon/canonlensesmain.htm
Tan Chung (EF lens photos)
http://www.the-digital-picture.com
The-Digital-Picture.com

http://www.usa.canon.com

Canon USA

Pentax K-mount and M42 screw-mount lenses

K-mount

http://www.BDimitrov.de/kmp Bojidar Dimitrov Pentax K Megasite

http://www.pentaxcanada.com Pentax Canada http://www.pentaximaging.com Pentax USA

M42 screw-mount

http://www.aohc.it Asahi Optical Historical Club AOHC

http://spotmatic.web-page.net Peter Jonkman Spotmatic (now offline)

Annex B: Links (continued)

Using Manual Lenses on Canon EOS Bodies

http://photonotes.org/articles/eos-manual-lenses/

http://www.bobatkins.com/photography/eosfaq/manual_focus_EOS.html

http://www.16-9.net/lens_tests/compatible.html

 $\underline{http://www.a1.nl/phomepag/markerink/mounts.htm}$

http://members.tripod.com/rick_oleson/index-99.html

http://medfmt.8k.com/third/index.html

Forum Sites:

http://www.fredmiranda.com/forum/board/55

http://www.fredmiranda.com/forum/board/2

http://photo.net/bboard/forum?topic_id=1545

Forum Threads:

http://www.fredmiranda.com/forum/topic2/574010

http://www.photo.net/bboard/q-and-a-fetch-msg?msg_id=00LgIJ

http://www.fredmiranda.com/forum/topic/541453/

http://www.fredmiranda.com/forum/topic2/499803

http://www.photo.net/bboard/q-and-a-fetch-msg?msg_id=00JBXb

http://www.photo.net/bboard/q-and-a-fetch-msg?msg_id=00J01o&tag=

http://www.photo.net/bboard/q-and-a-fetch-msg?msg_id=00ExzY

http://www.photo.net/bboard/q-and-a-fetch-msg?msg_id=00EA9Q

http://www.fredmiranda.com/forum/topic2/306575

Other lens data sources

http://home19.inet.tele.dk/ne/nikon.htm

http://medfmt.8k.com/third/index.html

http://vanveluwen.nl/eSIF/

http://www.cameraquest.com/voigtlen.htm

http://www.leica-camera.com/

http://www.sigmaphoto.com

http://www.tamron.com

http://www.thkphoto.com

http://www.photodo.com

http://www.captjack.exaktaphile.com/LENSPAGE.htm

http://www.praktica-users.com

http://www.zeiss.de

http://www.zeiss.com/C12567A8003B58B9/Contents-Frame/8401A54783ED1154C12570F90049667D

http://www.contaxusa.com/lenses.asp?itemnum=132000

NK Guy: MF lenses with EOS

Bob Atkins: MF lenses with EOS

Mark Hubsand 16-9.net Compatibility lists

W.J. Markerink's Camera Mounts and Registers

Rick Oleson's lens mount pages

Robert Monaghan's Megasite (3rd party lenses)

Fred Miranda Alternatives... forum

Fred Miranda Canon-mount SLRs forum

photo.net Canon EOS Forum

Altering Pentax K Mount to Canon Eos 5D

5D adapter for Contax, or for rollei

OM or FD on Canon

Canon 5D and Zeiss lenses - What to look for?

Nikon F mount lenses to EOS body adapter

Practicality of M42 ... XT and film bodies

K and M42 lenses on EOS

Problems with stop down... Adaptall2-M42-EOS

Zeiss/Oly -> 5D Compatibility List

Nikon Lens Specifications by Roland Vink

Monaghan's Megasite

Olympus (unofficial, really good site)

Voigtlander, Stephen Gandy's CameraQuest

Leica R

Sigma

Tamron

Tokina

photodo (data from original MTF test pages)

Capt. Jack Exaktaphile

Praktica Users

Carl Zeiss

Carl Zeiss Historical data sheets (C/Y mount)

Carl Zeiss at Contax

Annex C: Camera Stores

star	abbrev	name	place	url
*	ado	Adorama	New York NY	www.adorama.com
	andy	Andrews Cameras	Teddington UK	www.andrewscameras.co.uk
**	b&h	B&H	NEW YORK NY	www.bhphotovideo.com
	badger	Badger Graphic Sales Inc	St. Kaukauna WI	www.badgergraphic.com
	bcc	Bergen County Camera	Westwood NJ	www.bergencountycamera.com
*	bkyn	Brooklyn Camera Exchange	Rockville Center NY	www.brooklyncam.com
	boca	Precision Photo	Boca Raton FL	www.bocaphoto.com
	calumet	Calumet.com online lists	etherville	www.calumetphoto.com
	camcol	Camera Collectors	Denver CO	http://camera-collectors.com
*	cameta	Cameta Camera	Amityville NY	www.cameta.com
	camtx	Camera Techs	Seattle WA	www.cameratechs.com
*	camW	Camera West	Monterey CA	www.camerawest.com
	cd	Camera Depot	Thousand Oaks CA	www.camera-depot.com
	chUK	Camera House	Oakworth UK	www.the-camera-house.co.uk
	cole	Cole's Cameras	Fergus Falls MN	www.colescameras.com
	crs	Camera Repair Service	Pittsburgh PA	www.camerarepairservice.com
	ctc	Camera Traders	Victoria BC	www.camera-traders.com
	ctzn	Citizens Photo	Porttand OR	www.citizensphoto.com
	cwNW	Camera Works NW	Beaverton OR	www.cameraworksnw.com
	disc	Discount Camera	San Fran CA	www.discountcamera.com
	elm	Eight Elm Photo & Video	Toronto ON	www.eightelmphoto.com
	ffordes	Ffordes Ltd.	The Kirk UK	https://secure.ffordes.com
*	gasser	Adolph Gasser Inc.	San Fransisco CA	www.adolphgasser.com
	harris	Jonathan Harris	London UK	www.jonathanharris.co.uk
	harry	Harrys Pro Shop	Toronto ON	www.harrysproshop.com
	henry	Henry's	Toronto ON	www.henrys.com
**	igor	Igor's Camera Exchange	Cleveland OH	www.igorcamera.com
*	jack	Jack's Camera Shop	Muncie IN	www.jackscamera.com
**	keh	KEH	Atlanta GA	www.keh.com
*	kenmore	Kenmore Camera	Kenmore WA	www.kcamera.com
	kev	Kevin Cameras	Los Angeles CA	www.kevincameras.com
	levine	Levine's	Boston MA	www.eplevine.com
	manf	Manfred Schmidt Collectible	Chicago IL	www.manfredschmidt.com

Annex C: Camera Stores (continued)

star	abbrev	name	place	url
	marr	F. and S. Marriott Classic	Hornsea UK	www.marriottworld.com
	mcr	McRill's Cameras	Eugene OR	www.cameraguy.com
	mpex	Midwest Photo Exchange	Columbus OH	www.mpex.com
	mwcc	MW Classic Camera	London UK	www.mwclassic.com
	mxv	MXV Photographic	Hempstead Rise UK	www.mxv.co.uk
	nat	National Camera & Video	Minneapolis MN	www.natcam.com
	pac	Pacific Rim Camera	Salem OR	www.pacificrimcamera.com
	рс	Precision Camera & Video	Austin TX	www.precision-camera.com
	pgraf	Photo-graphic Systems	Alburquerque NM	www.pgsys.com
	pitt	Pittsburgh Camera Exchange	Pittsburgh PA	www.pghcamex.com
	pq	Presto	Quebec QU	www.presto.qc.ca
	ps	Photo Stop	Westwood NJ	www.photostop.net
	ritz	Ritz Collectibles	Phoenix AZ	www.ritzcam.com
	russ	Russ' Camera and Video	Santa Barbara CA	www.russcamera.com
	simon	Simon's Cameras	Montreal QU	www.simonscameras.com
	tamk	Tamarkin Camera	NEW YORK NY	www.tamarkin.com
	tj	Trader Jim's	Culver City CA	www.traderjims.com
*	V.V	Vintage Visuals	Calgary AB	www.vintagevisuals.com
	vUK	Vintage UK	London UK	www.vintagecameras.co.uk
	vis	Vistek	Toronto ON	www.vistek.ca/used
	wood	Woodmere Camera	Merrick NY	www.woodcam.com