

CELOSdb: Canon EF Lenses and Other Stuff database

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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.

### **Disclaimers**

I try to be accurate but I'm sure there are errors and omissions - use this database at your own risk.

Many of the prices in CELOSdb 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 Canon, nor any of the other brands included in CELOSdb. I am not affiliated in any way with eBay nor with any Other Suppliers cited in CELOSdb.

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## ABSTRACT

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The Canon EF lenses and other stuff database, CELOSdb, includes contemporary prices and physical specification data for over 300 lenses and other stuff, including: all Canon EF prime lenses; all Canon EF L-series zoom lenses (plus a few others); selected EF-compatible “third party” lenses; and, other stuff including; teleconverters, flash, and macro accessories. The prices are mostly for used equipment in excellent to mint condition, based on hundreds of eBay sales and online list prices at over 90 camera stores. The price information was gathered over seven months from October 2004 through April 2005. The database also lists physical specifications such as minimum focus distance, weight and dimensions. The database and this document are distributed in **.pdf** format, and the database is also available as a password-protected MS Excel **.xls** spreadsheet, and as **.csv** comma-delimited text files.

## 1 Introduction

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The Canon EF lenses and other stuff database, CELOSdb, provides price and physical specification data for all Canon EF prime lenses, all “L” series EF zoom lenses (plus a few others), EF extenders, and EX flash. A number of non-Canon lenses and other stuff are also included; some are fully compatible with the EOS autofocus system, while others only provide manual focus and manual aperture controls.

I developed CELOSdb to provide guidance for my recent migration from Pentax 35mm film to Canon EOS digital and film as my primary “small format” system. The general approach that I used to create CELOSdb is closely based on the earlier SMC Pentax lenses and other stuff database, SPLOSdb, which is also documented on my web site, [www.jcolwell.ca](http://www.jcolwell.ca).

This Canon EF lenses and other stuff database, CELOSdb, is copyright © J.L. Colwell 2005. You may copy and freely distribute the database to others, but you may not charge nor accept any fees, and you may not modify the database. You may incorporate any information from CELOSdb in other publications (online or otherwise), as long as you acknowledge the source. I attempt to acknowledge all sources I have used (except eBay sales), and I apologize to any sources I may have missed. I am grateful to the many people who share photography information online. I try to be accurate but I'm sure there are errors and omissions - use this database at your own risk.

## 2 Overview

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CELOSdb contains two types of information on Canon EF lenses and other stuff:

- i. physical specifications, such as minimum focus distance, weight, dimensions, etc.; and,
- ii. current selling prices on eBay, and (separately) current list prices from “other suppliers”, most of which are photo shops with online used equipment listings.

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

- i information
- EFp Canon EF prime lenses
- EFz Canon EF L series zoom lenses (plus a few others)
- big4 big four lenses (Sigma, Tamron, Tokina and Vivitar - especially early Series 1)
- SMC selected SMC Pentax and Takumar manual focus lenses
- oL other lenses
- oS other stuff (teleconverters, flash, macro & etc.)

Annex A defines abbreviations and acronyms, and Annex B lists the ‘other suppliers’.

### 2.1 Dates

Dates are shown as year and month, using a .YY-MM format. For example .05-04 is April 2005. All prices for Canon items and for any lenses with EF in the ‘mount’ column were observed between 1 October 2004 and 30 April 2005. All prices with dates before October 2004 (.04-10) are inherited from SPLOSdb, and prices with no date are from before November 2003 (.03-11) .

## 3 Prices

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All prices are in US dollars. eBay prices are for items sold, other supplier 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'). A price in **bold italic font** is an eBay “Buy It Now” price for a new item or Dutch Auction of multiple items - I don't always know if it actually sold, but it certainly could have sold for this price. Relatively high “Buy It Now” prices are not recorded in CELOSdb.

Prices for ‘Big 4’ autofocus lenses which do not have ‘EF’ in the ‘mount’ column are from the SPLOSdb era, and may not be accurate for EF versions of the same lenses. This is primarily because EF and EOS-compatible autofocus (AF) lenses contain the AF motors within the lens itself, as opposed to the Pentax AF system, which has the AF motor in the camera body. Prices for manual focus lenses from SPLOSdb and CELOSdb are appropriate for any body on which they can be mounted, but keep in mind the dates at which the prices were observed.

### 3.1 Price Categories

CELOSdb prices are recorded in four categories:

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

[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

Many of the eBay prices, especially for Canon EF lenses, are actually the computed average of two or more separate auctions. If you use the Excel version of CELOSdb, then you can click on a price to see if it includes more than one price. If more than one price is included, then the date is for the most recent price, which is the left-most in the list. For example, the price of \$1532 (US) for the Canon EF 70-200/2.8 L IS USM is actually calculated from the expression:

= AVERAGE(1627,1500,1500,1425,1400,1540,1545,1630,1625)

and, the left-most price of \$1627(US) was recorded in April 2005 (i.e. .05-04). Individual lenses with many prices are usually those which I own or would like to own. For example, I'm waiting for a big price drop on the 70-200L IS (but I'm not holding my breath...). On the other hand, lenses with one or only a few prices are either ones in which I'm not particularly interested (e.g. EF 28/2.8), or they are lenses which are relatively rare (e.g. EF 50/1.0 L). The only Canon EF lens with no price information at all is the EF 1200/5.6 L USM, which no mortal could possibly afford anyway, and so this lack of information is of little consequence.

A few notes on eBay

- you must exercise intelligent caution when buying on eBay
- do enough research to know what you want and what it is worth
- make no assumptions, ask questions to get the information you need

### 3.3 Other Supplier Prices

CELOSdb prices from ‘other suppliers’ are the list prices of items for sale. Most other suppliers are camera shops with online inventories from Canada, the US and the UK. Annex B shows the abbreviation, name, location, and url for the ‘other suppliers’ which were regularly visited to find CELOSdb prices. Some of these sites are not always available online, and at least a few have gone ‘offline’ in recent months.

CELOSdb usually shows the lowest other supplier 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 shop has an EF 50/1.4 USM rated [E] for \$210 and another has one rated [E++] for \$220, then CELOSdb 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 CELOSdb would list both; the first in [E to E++] and the second in [M- to N].

Other supplier ‘star’ ratings in the first column of Annex B are my personal assessments, based primarily on the typical size of their online inventory of used Canon EF lenses. The ratings are: no-star, one-star (\*) and two-star (\*\*). All of these shops are worth a virtual visit, but the two-star shops have larger inventory and higher turnover rates than the others. Many of the one-star and no-star stores are ‘2-star’ material for other brands (e.g. Pentax, N\*k\*n, etc.). Other suppliers with a pointy close-bracket (>) symbol in the first column are excellent walk-in stores, but don’t have particularly good online presence. Many of the shops listed in Annex B (and many more not listed at all) probably should have a >, but they don’t as I haven’t yet walked into them.

Note that while some online camera shops in the UK are really good in terms of the number and variety of products that they stock, their prices are generally quite high in comparison with those in Canada and US.

You can find links to many camera stores at:

ACE Index ..... [www.acecam.com/usedindex.html](http://www.acecam.com/usedindex.html)  
Jeff Albro at Monahan’s Megasite ..... <http://medfmt.8k.com/mf/albro.html#used>

## 4 Lens Specifications

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CELOSdb lens specification data includes:

f	focal length (mm)
f/	maximum aperture
f.20D	equivalent focal length (mm), based on angle of view, on a Canon EOS 20D or other x1.6 ‘cropping factor’ camera: 10D, Digital Rebel (300D), Digital Rebel XT (350D)
mt	type of lens/body mount (mt = EF for Canon EOS lenses)
Dmin	minimum focus distance (m)
wt	weight (kg), not including caps
d	maximum diameter (mm)
l	minimum length (mm) at infinity focus and, for zooms, at most compact focal length
df	filter diameter



## 4.1 Information Sources and Links

The lens specification data for Canon EF lenses should be reliable (see the sources listed below). Most data on new third party lenses for Sigma EX, Tamron SP and Tokina AT-X were obtained from the manufacturer or distributor. Data on older Big Four and other lenses are from a wide variety of sources, including eBay descriptions. Please let me know if you find any errors, or if you have data to fill in some of the blank spaces.

Canon EF lenses and other EOS stuff:

Canon Canada, [www.canon.ca](http://www.canon.ca)  
Canon USA, [www.usa.canon.com](http://www.usa.canon.com)  
Canon Camera Museum, [www.canon.com/camera-museum](http://www.canon.com/camera-museum)  
Klaus Schroiff, [www.photozone.de](http://www.photozone.de)  
Tan Chung, [www.tanchung.com/canon/canonlensesmain.htm](http://www.tanchung.com/canon/canonlensesmain.htm)  
Reptile Garden Photography, [www.rgarden.glandrake.com/index.html](http://www.rgarden.glandrake.com/index.html)  
Eric's Photos [canid.com/canon\\_ef\\_lenses.html](http://canid.com/canon_ef_lenses.html)

Pentax K-mount and M42 screw-mount lenses

Pentax Canada, [www.pentaxcanada.com](http://www.pentaxcanada.com)  
Pentax USA, [www.pentaximaging.com](http://www.pentaximaging.com)  
Bojidar Dimitrov, [kmp.BDimitrov.de](http://kmp.BDimitrov.de)  
Asahi Optical Historical Club, AOHC, [www.aohc.it](http://www.aohc.it)  
Peter Jonkman, [spotmatic.web-page.net](http://spotmatic.web-page.net) (now silent)

Other sources include: [www.sigmaphoto.com](http://www.sigmaphoto.com) [www.tamron.com](http://www.tamron.com) [www.thkphoto.com](http://www.thkphoto.com)  
[www.photodo.com](http://www.photodo.com) [www.captjack.exaktaphile.com/LENSPAGE.htm](http://www.captjack.exaktaphile.com/LENSPAGE.htm) [www.praktica-users.com](http://www.praktica-users.com)

I recommend the following sites for general information, user surveys and reviews of Canon EOS and other photographic equipment: [www.photozone.de](http://www.photozone.de) [www.photonotes.org](http://www.photonotes.org) [www.photo.net](http://www.photo.net)  
[www.fredmiranda.com](http://www.fredmiranda.com) [www.the-digital-picture.com](http://www.the-digital-picture.com) [www.vividlight.com](http://www.vividlight.com)

Finally, for general information on third party lenses, lens myths, lens testing, and just about anything else, I highly recommend that you should spend some time at Robert Monaghan's "Third Party Lenses Resource Megasite": [medfmt.8k.com/third/index.html](http://medfmt.8k.com/third/index.html)

## 4.2 Using Non-EF Lenses on Canon EOS Bodies

Many lens mounts, such as the M42 (aka Pentax or universal screw mount), 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 removing its aperture control lever, as discussed elsewhere on my web site. These adapters allow you to physically mount a non-EF lens on an EOS body, but they only enable manual focus and manual aperture control. Good sources of information on this topic are NK Guy's article "Using manual lenses and telescopes with EOS cameras", at [photonotes.org/articles/eos-manual-lenses/](http://photonotes.org/articles/eos-manual-lenses/), and Robert Monaghan's Megasite at <http://medfmt.8k.com/third/mounts.html>. Also, see the Annex A definitions for aa, ma and ps for a brief discussion on some aperture manual control issues.

## 5 Documents and Database Files

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You are now reading the documentation file **CELOS-v01.pdf**. The entire CELOSdb distribution contains the following ten files.

<b>CELOSdb-v01.pdf</b> .....	database for printing and viewing (14 pages from 7 worksheets) [51,678 bytes]
<b>CELOSdb-v01.xls</b> .....	MS Excel version of the database (protected worksheets) [155,648 bytes]
<b>CELOSdb-v01-Big4.csv</b> .....	Big Four: Sigma, Tokina, Tamron and Vivitar [10,925 bytes]
<b>CELOSdb-v01-EFp.csv</b> .....	Canon EF prime lenses [5,544 bytes]
<b>CELOSdb-v01-EFz.csv</b> .....	Canon EF zoom lenses [3,141 bytes]
<b>CELOSdb-v01-info.csv</b> .....	information sheet [3,118 bytes]
<b>CELOSdb-v01-oL.csv</b> .....	other lenses [6,000 bytes]
<b>CELOSdb-v01-oS.csv</b> .....	other stuff [3,490 bytes]
<b>CELOSdb-v01-SMC.csv</b> .....	manual focus SMC Pentax and Takumar lenses [5,674 bytes]
<b>CELOS-v01.pdf</b> .....	documentation (you are reading it now) [101,498 bytes]

## 6 Concluding Remarks

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Developing CELOSdb was a much easier task than the earlier SPLOSdb database, because the Pentax study included monitoring ALL eBay sales of SMC Pentax lenses for a three month period. This enabled an assessment of lens availability (i.e. rare vs. common) and led to the production of “Top Ten Lists”, but once was enough - I won’t do that again..

CELOSdb incorporates one of the improvements recommended in the SPLOSdb discussion, which is to actually record many eBay prices for individual auctions and to show the calculated average price. In this way, you can get a good idea of approximate cost from the average, and with the MS Excel version, you can also examine the price spread by clicking on an average price to see the list of prices recorded.

The earlier SPLOSdb documentation discusses many topics which are relevant to CELOSdb, but are not repeated here, including: “Cult Classic” lenses; search strategies; imports to Canada; being a lens detective; and, buying lenses in less than [E] condition.

## 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)
[n1.n2.n3]	in description for other lenses: n1 = Nelements, n2 = Ngroups, n3=Nblades (if present)
1:n	macro magnification 1 to 'n'; 1:1 is life-size image on film, 1:2 is half of life size, ...
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 or without a manual aperture control ring); the lens is "wide-open" for metering and finder viewing, and when the shutter 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 <a href="http://www.aohc.it/tak00e.htm">www.aohc.it/tak00e.htm</a> for a description of Asahi Pentax M42 mounts.
AE	auto-exposure mode: camera body selects Av and/or Tv for 'automatic' exposure
AF	auto-focus
aka	also known as (or labeled as)
AL	aspherical lens elements (same as ASP)
AoV	angle of view
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 <i>math: Av = log(Nf)/log(√2)</i>
BBAR	broad band anti-reflection (Tamron coating)
bi	"built-in" filters, most common on wide angle lenses
Cat	Catadioptric lens (mirror)
CF	for a lens, CF = close focus; for a digital camera, CF = cropping factor
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
di	"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)
df	column in database, df = filter thread diameter (mm)
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
(continued...)	

## Annex A: Abbreviations and Acronyms (continued)

Symbol	Description
E	excellent lens condition (see Section 3.1)
E++	excellent ++ lens condition (see Section 3.1)
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.
EV	exposure value <i>math</i> : $EV = Tv + Av$
f	focal length
f/	aperture f-number, <i>math</i> : " $f$ " = $Nf = f / da$
f.20D	equivalent focal length when using lens on a Canon 20D digital camera (x1.6 CF)
FE (x/y)	fish eye: x = diagonal AoV, y = image diameter (35mm film image is 24mm x 36mm)
FF	flat field, macro design to focus on single plane, good for pics of flat things
FREE	fixed rear-element extension (focusing mechanism)
IF	internal focus: barrel length does not change, front element does not rotate
Keos	my name for the Pentax K-mount lens to Canon EOS body adapter, the lens aa aperture control lever must be removed, making it a (ma) lens, which is also MF.
l (lower case L)	column in database, l = length of lens (mm), front of lens to mount plate, at infinity focus.
L	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 <a href="http://www.photozone.de/8Reviews/canonFAQ.htm">www.photozone.de/8Reviews/canonFAQ.htm</a> for a good discussion of L series lenses.
LNIB	Like New In Box
LD	low dispersion glass (see ED, APO)
[M]	mint lens condition, see Section 3.1
[M-]	mint - (minus) lens condition, see Section 3.1
M42	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 4.2.
ma	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 then manually "stop down" to the "taking" aperture just before taking the shot, see Section 4.2.
MF	manual focus (could also mean 'medium format')
MP-E	Canon EOS "Macro Photo" manual focus EF lens mount (so far, the only MP-E is 65/2.8)
mt	column in database for lens/body mount (e.g. EF, M42)
N	new lens condition, see Section 3.1
Nf	f-stop number (aperture) <i>math</i> : $Nf = "f" = f / da = (\sqrt{2})^{Av} \dots$ (square root 2 to power of Av)
(continued...)	

## Annex A: Abbreviations and Acronyms (continued)

Symbol	Description
pp	push-pull zoom (one touch): push-pull to zoom, twist to focus
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)
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)
SMC	Super Multi-Coated (c), Pentax
t	inverse of shutter speed: for example, $t = 500$ for shutter speed of $1/500$ sec $math: t = 2^{Tv} \dots$ (two to the power of Tv)
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
tt	two-touch zoom (separate zoom & focus rings)
vf	varifocal: focus changes while zooming
VMC	Vivitar Multi Coating
wt	column in database, wt = weight of lens (kg), no caps.
YS	3rd party MF lens mount: mostly Sun/Sigma/Spiratone, M42 adapters available

## Annex B: List of Other Suppliers

	Abbrev	Name	Place	url
**	ado	Adorama	NYC	<a href="http://www.adorama.com">www.adorama.com</a>
*	andy	Andrews Cameras	Teddington, UK	<a href="http://www.andrewscameras.co.uk">www.andrewscameras.co.uk</a>
>	aps	Atlantic Photo Supply	Halifax NS	<a href="http://www.atlanticphotosupply.com">www.atlanticphotosupply.com</a>
**	b&h	B&H	NYC	<a href="http://www.bhphotovideo.com">www.bhphotovideo.com</a>
	bcc	Bergen County Camera	Westwood NJ	<a href="http://www.bergencountycamera.com">www.bergencountycamera.com</a>
*	beach	Beach Photo & Video	Daytona Beach FL	<a href="http://www.beachphoto.com">www.beachphoto.com</a>
	biggs	Biggs Camera	Charlotte NC	<a href="http://www.biggscamera.com">www.biggscamera.com</a>
*	bklyn	Brooklyn	NYC	<a href="http://www.brooklyncam.com">www.brooklyncam.com</a>
*	bkyn	Brooklyn Camera Exchange	Rockville Center NY	<a href="http://www.brooklyncam.com">www.brooklyncam.com</a>
*	boca	Precision Photo Boca	Boca Raton FL	<a href="http://www.bocaphoto.com">www.bocaphoto.com</a>
	brad	Brads Camera	San Antonio TX	<a href="http://www.usedphoto.com">www.usedphoto.com</a>
	brom	Bromfield Camera	Boston MA	<a href="http://www.bromfieldcamera.com">www.bromfieldcamera.com</a>
	bui	BUI Camera	Temecula CA	<a href="http://www.buicamera.com">www.buicamera.com</a>
	camcol	Camera Collectors	Denver CO	<a href="http://camera-collectors.com">camera-collectors.com</a>
**	cameta	Cameta Camera	Amityville NY	<a href="http://www.cameta.com">www.cameta.com</a>
*	camtec	Camera Tech, Inc.	Las Vegas NV	<a href="http://www.cameratech.net">www.cameratech.net</a>
*	camtx	Camera Techs	Seattle WA	<a href="http://www.cameratechs.com">/www.cameratechs.com</a>
**	camW	Camera West	Monterey CA	<a href="http://www.camerawest.com">www.camerawest.com</a>
*	canoga	Canoga Camera	Canoga Park CA	<a href="http://www.canogacamera.com">www.canogacamera.com</a>
	cc	Central Camera	Chicago IL	<a href="http://www.central-camera.com">www.central-camera.com</a>
	cd	Camera Depot	Thousand Oaks CA	<a href="http://www.camera-depot.com">www.camera-depot.com</a>
x	cex	Camera Exchange II	Ottawa ON	<a href="http://www.camera-exchange.com">www.camera-exchange.com</a>
**	charl	Charlotte Camera	Charlotte NC	<a href="http://www.charlottecamera.com">www.charlottecamera.com</a>
	chris	Chris Camera	Aiken SC	<a href="http://www.chriscamera.com">www.chriscamera.com</a>
*	chUK	Camera House	Oakworth UK	<a href="http://www.the-camera-house.co.uk">www.the-camera-house.co.uk</a>
	citiz	Citizens Photo	Portland OR	<a href="http://www.citizensphoto.com">www.citizensphoto.com</a>
	class	Classic-Cameras	Catawba VA	<a href="http://www.classic-cameras.com">www.classic-cameras.com</a>
>	cm	Carsand Mosher	Halifax & Truro NS	<a href="http://www.carsand.com">www.carsand.com</a>
*	cole	Cole's Cameras	Fergus Falls MN	<a href="http://www.colescamlas.com">www.colescamlas.com</a>
	cris	Chris's Camera	Aiken SC	<a href="http://www.chriscamera.com">www.chriscamera.com</a>
	crs	Camera Repair Service	Pittsburgh PA	<a href="http://www.camerarepairservice.com">www.camerarepairservice.com</a>
**	ctc	Camera Traders	Victoria BC	<a href="http://www.camera-traders.com">www.camera-traders.com</a>
	ctl	Camera Traders Ltd	NYC	<a href="http://www.cameratradersltd.com">www.cameratradersltd.com</a>
	cts	Camera Techs Inc	Seattle WA	<a href="http://www.cameratechs.com">www.cameratechs.com</a>
	ctzn	Citizens Photo	Portland OR	<a href="http://www.citizensphoto.com">www.citizensphoto.com</a>
	cwNW	Camera Works, NW	Beaverton OR	<a href="http://www.cameraworksnw.com">www.cameraworksnw.com</a>
	cz	Camerazine (Penticton Camera)	Penticton BC	<a href="http://www.camerazine.com">www.camerazine.com</a>

## Annex B: List of Other Suppliers (continued)

	Abbrev	Name	Place	url
*	disc	Discount Camera	San Fran CA	<a href="http://www.discountcamera.com">www.discountcamera.com</a>
>	downt	Downtown Camera	Toronto ON	<a href="http://www.downtowncamera.com">www.downtowncamera.com</a>
	elm	Eight Elm Photo & Video	Toronto ON	<a href="http://www.eightelmphoto.com">www.eightelmphoto.com</a>
*	ffordes	Ffordes Ltd.	The Kirk, UK	<a href="http://secure.ffordes.com">secure.ffordes.com</a>
	fnt	Format	Rockville Center NY	<a href="http://www.formatcamera.com">www.formatcamera.com</a>
*	gas	Adolph Gasser Inc.	San Fransisco CA	<a href="http://www.adolphgasser.com">www.adolphgasser.com</a>
*	goodw	Goodwin	San Diego CA	<a href="http://www.goodwinphotoinc.com">www.goodwinphotoinc.com</a>
	gz	Glazer's Cameras	Seattle WA	<a href="http://www.glazerscamera.com">www.glazerscamera.com</a>
	harr	Jonathan Harris	London UK	<a href="http://www.jonathanharris.co.uk">www.jonathanharris.co.uk</a>
**	henry	Henry's	Toronto ON	<a href="http://www.henrys.com">www.henrys.com</a>
*	igor	Igor's Camera Exchange	Cleveland OH	<a href="http://www.igorcamera.com">www.igorcamera.com</a>
**	jack	Jack's Camera Shop	Muncie IN	<a href="http://www.jackscamera.com">www.jackscamera.com</a>
	jer	Jerry's Camera and Jewelry	Denver CO	<a href="http://www.jerryscamera.com">www.jerryscamera.com</a>
**	keh	KEH	Atlanta GA	<a href="http://www.keh.com">www.keh.com</a>
*	ken	Kenmore Camera	Kenmore WA	<a href="http://www.kcamera.com">www.kcamera.com</a>
*	kev	Kevin Cameras	Los Angeles CA	<a href="http://www.kevincameras.com">www.kevincameras.com</a>
	kex	Kamera Express (NL)	Amsterdam NL	<a href="http://www.kamera-express.nl">www.kamera-express.nl</a>
*	k-mar	Ken-Mar Camera	Albertson NY	<a href="http://www.kenmarcamera.com">www.kenmarcamera.com</a>
*	lev	Levine's	Boston MA	<a href="http://www.cameras.com">www.cameras.com</a>
*	manf	Manfred Schmidt Collectible...	Chicago IL	<a href="http://www.manfredschmidt.com">www.manfredschmidt.com</a>
	marr	F. and S. Marriott Classic...	Hornsea UK	<a href="http://www.marriottworld.com">www.marriottworld.com</a>
*	mcb	MacBains	Calgary AB	<a href="http://www.mcbaincamera.com/">www.mcbaincamera.com/</a>
	mck	McKittrick's Photo/Video	London ON	<a href="http://www.mckittricks.ca">www.mckittricks.ca</a>
	mcr	McRill's Cameras	Eugene OR	<a href="http://www.cameraguy.com">www.cameraguy.com</a>
	mwcc	MW Classic Camera	London UK	<a href="http://www.mwclassic.com">www.mwclassic.com</a>
**	mwpe	Midwest Photo Exchange	Columbus OH	<a href="http://www.mpex.com">www.mpex.com</a>
*	mxv	MXV Photographic	Hempstead Rise UK	<a href="http://www.mxv.co.uk">www.mxv.co.uk</a>
*	nat	National Camera & Video	Minneapolis MN	<a href="http://www.natcam.com/">www.natcam.com/</a>
	nwcam	NW Camera	Oregon WA	<a href="http://nwcamera.com">nwcamera.com</a>
*	nwcc	Northwest Collector Camera	Seattle WA	<a href="http://nwcollectorcamera.com">nwcollectorcamera.com</a>
	pac	Pacific Rim Camera	Salem OR	<a href="http://www.pacificrimcamera.com">www.pacificrimcamera.com</a>
*	pc	Precision Camera & Video	Austin TX	<a href="http://www.precision-camera.com">www.precision-camera.com</a>
	pcentr	Photo Center	Fayetteville NC	<a href="http://www.thephotoctr.com">www.thephotoctr.com</a>
*	pgon	PhotogoN, online classified		<a href="http://www.photogon.com">www.photogon.com</a>
	pgraf	Photo-graphic Systems	Albuquerque NM	<a href="http://www.pgsys.com">www.pgsys.com</a>
*	pitt	Pittsburgh Camera Exchange	Pittsburgh PA	<a href="http://www.pghcamex.com">www.pghcamex.com</a>
	port	Porter's	Cedar Falls OR	<a href="http://buyporters.com">buyporters.com</a>
*	pq	Presto	Quebec QU	<a href="http://www.presto.qc.ca">www.presto.qc.ca</a>
	ps	Photo Stop	Westwood NJ	<a href="http://www.photostop.net">www.photostop.net</a>

## Annex B: List of Other Suppliers (continued)

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	Abbrev	Name	Place	url
*	ritz	Ritz Camera	Phoenix AZ	<a href="http://www.ritzcam.com">www.ritzcam.com</a>
*	russ	Russ' Camera and Video	Santa Barbara CA	<a href="http://www.russcamera.com">www.russcamera.com</a>
*	seaw	Seawood Photo	San Anselmo CA	<a href="http://www.seawood.com">www.seawood.com</a>
>	simon	Simon's Cameras	Montreal QU	<a href="http://www.simonscameras.com">www.simonscameras.com</a>
	snap	S.N.A. SnapPhoto	Peacehaven UK	<a href="http://www.snapphoto.co.uk">www.snapphoto.co.uk</a>
	stud	Studio One Cameras	Courtenay BC	<a href="http://www.studio-one.bc.ca">www.studio-one.bc.ca</a>
	tamk	Tamarkin Camera	NYC	<a href="http://www.tamarkin.com">www.tamarkin.com</a>
	thom	Thompson Photo Products	Knoxville TN	<a href="http://www.thompsonphoto.com/">www.thompsonphoto.com/</a>
	tj	Trader Jim's	Culver City CA	<a href="http://www.traderjims.com">www.traderjims.com</a>
	tl	Technilab (Camera Repair.com)	West Nyak NY	<a href="http://db.technilab.com:8001/">http://db.technilab.com:8001/</a>
*	uc	University Camera	Iowa City IO	<a href="http://www.ucam.com">www.ucam.com</a>
	used	Usedphotostuff	Phoenix AZ	<a href="http://www.usedphotostuff.com">www.usedphotostuff.com</a>
**	v.v	Vintage Visuals	Calgary AB	<a href="http://www.vintagevisuals.com/">www.vintagevisuals.com/</a>
*	vis	Vistek	Toronto ON	<a href="http://www.vistek.ca/used">www.vistek.ca/used</a>
*	vUK	Vintage UK	London UK	<a href="http://www.vintagecameras.co.uk">www.vintagecameras.co.uk</a>
	ware	Warehouse Photographic	Carrollton TX	<a href="http://www.warehousephoto.com">www.warehousephoto.com</a>
*	wood	Woodmere Camera	Merrick NY	<a href="http://www.woodcam.com">www.woodcam.com</a>
	worz	Worz Cameras	Ansonia OH	<a href="http://www.worzcameras.com">www.worzcameras.com</a>



## **Annex C: More Funny Stuff (continued from SPLOSdb)**

[from eBay and elsewhere...]

features: low dispersion glass... cosmetically it shows some scratching ... filter not included

super sharp 200-80mm for canon

fukutoku64 ( 101)

I am a hobby photographer and have taken great care of this lens.

NO MARKS, LIKE NEW, IT WORKS %100 DIGITAL COMBATEBOL.

nice condition with normal wear marks (look at photos), the shutter works but the total exactitude isn't under guarantee

I will not be to computer the dust of access HOLIDAY 2,06-10,06,2004

You are bidding for a PENTAX SMC (Super-Multi-Coated) Takumar 50mm f1.4 Lens