

Transfer of IOLMaster patient measurements to the Holladay IOL Consultant Professional Edition program (HIC – PRO)

The IOLMaster[®] performs biometric measurements for the purpose of intraocular lens power calculation in preparation for cataract surgery. It also provides on-board lens power calculation capability as well as patient data management and lens constant personalization (also called optimization.)

The Holladay IOL Consultant Professional Edition (HIC – PRO) is a third-party software program developed, distributed and supported by Jack Holladay MD that runs on a separate computer and provides intraocular lens power calculation, lens constant personalization and surgical outcomes analysis. It also contains a proprietary lens power calculation formula called the Holladay 2 formula, which is not available on the IOLMaster. The HIC – PRO program cannot be loaded or run directly on the IOLMaster instrument at this time.

IOLMaster users wishing to use the HIC – PRO program for IOL power calculation must transfer IOLMaster patient measurement data into the HIC – PRO program. This document identifies several methods for this data transfer and provides setup and data transfer guidelines. These methods were developed from a collaborative effort between Carl Zeiss Meditec and Jack Holladay MD for the benefit of our mutual customers.

Disclaimer: Please Read

Carl Zeiss Meditec, Inc. (CZM) is not responsible for the results provided by the HIC-PRO Program. The HIC-PRO is a thirdparty application; users are advised to contact Jack Holladay MD at (<u>support@hicsoap.com</u>) for technical and clinical support.

This document does not represent or imply any commitment for sales, installation and setup, technical or clinical support of the HIC-PRO program. Our tech support team has very limited knowledge of the HIC-PRO program's operation. CZM does not provide sales, installation, setup, configuration, training or troubleshooting support for a customer's network. This document provides guidance to assist an IT professional when configuring the Holladay IOL Consultant Professional Edition to access patient data from an IOLMaster 500 via Ethernet. CZM may provide guidance on a best-effort basis but is not responsible for the setup and administration of a user's office network.



NOTE: Before you attempt to set up your IOLMaster it might be helpful to know what version of software your instrument is using. Below you will find the process for finding your software version for older IOLMaster systems (IOL's 1,2,3, XP systems running 4.X or 5.X software, and for the newer 5.5 system) as well as the IOLMaster 500.

For all IOLMaster instruments except the IOLMaster 500, find the question mark (?) on the "New Patient" screen, and click on it:

New Patient				
Patient Options ?				
	Last Name:			
E S IOLMaster	First Name:			
	Date of Birth:			
	ID Number:			
	Refraction OD [D]:	0	0 () *
	OS [D]:	0	0 () *
	Visual Acuity OD:			
	OS:		_	
	Remark:			
				A
	र			▼ F
	New	Open		



Now click on "About IOLMaster":

New Patient Patient Options ?					
About IOLMaster	Last Name:				_
	First Name:				
ICHECK, DEVICE, 01/01/1911 100 test, test, 06/01/1954	Date of Birth:				
	ID Number:				
	Refraction OD [D]:	0	0	0	*
	OS [D]:	0	0	0	*
	Visual Acuity OD:				
	OS:				
	Remark:				
					T
	<u>र</u>			Þ	
		1			
	New	Ope	n	" <mark>-1</mark>]	-

The IOLMaster informational screen will open, where you can verify the version of software installed on your instrument:

Abor	ut IOLMaster® Adva	anced Technology		lactNamo
÷.	ZEISS	Copyright Carl Zaiss IOLMaster, Version:	5.4.4.0006	IOLMaster, SW Option A+
l	The Winner of	Vkt. DII : Wzw. DII : GIF : Database : Cornea DII : Piol DII : Lasiol DII :	1.01 1.02 1.01	© Carl Zeiss 1999, 2008 IOLMaster, SW Option N © Carl Zeiss 1999, 2008 IOLMaster, SW Option T © Carl Zeiss 1999, 2008
			ОК	Print system informations



For IOLMaster 500 instruments, locate the "I" lcon in the upper right corner of the "Patient Manager" screen and click on it:

New patient		Pati	ient list		Ultras	ound	
Last name							
First name							
Date of birth		Da	te has not beer	n defined! MN	//DD/\^^	Ŷ	
Patient ID							
Sex	not know	wn	•				
Remarks							<u>^</u>
Remarks							0.0
Remarks	00			05			
Remarks	OD Sph [D]	Cyl [D]	Axis [°]	OS Sph [D]	Cyl [D]	Axis [°]	~
Remarks Refraction		Cyl [D]	Axis [°] 0		Cyl [D]	Axis [°] 0	~
	Sph [D]		1.1	Sph [D]			~
Refraction	Sph [D]		1.1	Sph [D]			~

The IOLMaster 500 informational screen will open, where you can verify the software version installed on your IOLMaster 500:

	Ker, DII :	2.00.0064	© Carl Zeiss 1999, 2008
	ACD. DII :	1.00.0002	
100	Wzw. DII :	1.04.0006	IOLMaster,
21/	GIF :	8.05.0002	SW Option N
	Database :	1.00.0003	011 0040111
	Cornea DII :	1.01	© Carl Zeiss 1999, 2008
10 Years	Piol DII :	1.02	IOLMaster.
IOLMaste	Lasiol DII :	1.01	ioemaator,
Beyond Biometr	Lasiolh DII :	1.00	SW Option T
2009 Winner of	Computer name:	IOLM	© Carl Zeiss 1999, 2008
novationspreis Thùringen 2000			



Methods for data transfer from the IOLMaster to the HIC – PRO program

- A. Export/Import Via Removable Media
- B. Export/Import Via Network (Ethernet) connection

A. Export/Import Via Removable Media (Non -Networked Systems)

The IOLMaster can export via 3 forms of removable media, depending on the model of the IOLMaster. Floppy Diskette – Limited to older IOLMaster version 1, 2 & 3 (Windows 95/98) that are equipped with a Floppy Disk drive. CD – RW Disc – Available on IOLMaster version 4 & 5 (Windows XP) that are equipped with a CD – RW drive. USB Memory Stick – Available on newer IOLMaster systems (Windows XP) that are equipped with USB ports.

IOLMaster Setup (IOLMaster Versions 1,2,3,4.X, 5.X, 5.5)

Prior to performing the Export function of the IOLMaster, you must ensure that the instrument is configured properly. If the instrument is running Windows 95 or Windows 98, you must have the **Option A** software installed on the IOLMaster. If the instrument is running Windows XP, you must have the **Option A** software installed on the IOLMaster.

In addition, the type of data and the path for the export must be defined. On IOLMaster systems running Windows 95 or Windows 98, the path is predetermined to be the Floppy Disk Drive. No other selection is possible. For systems running Windows XP, the path may be selected to be either the CD – RW drive, or a USB memory stick. To define the data and path, follow the procedure below:

1. From the New Patient Menu, Click on "Options", then point to "Setup", and finally click on "Program Settings":



nt Options ?						
User Database		Last Name:				
NC Setup	Date/Time	First Name:				
* Service	Program Settings	Date of Birth:				
E Patine John G	Depineal Setting Printer	ID Number.				
	SW Option	Retraction CD (D):	0	0	0	-
	Update	06 (D)	0	0	0	•
		Visual Acuity OD:		_		
		0S:		_		
		Remark				
						×
		×			P	ľ

2. The Program Settings window will open. Click on the "Export" tab:



3. The Export tab screen will now be displayed. The upper portion of the screen has selectable options as to which measurements and patient demographics are to be included in the exported file. The picture below shows the default values. Leave the values as show for proper file formatting of the exported values:





The lower section of the export screen will not be present on older Windows 95 and Windows 98 systems. These systems can only export to the floppy disk drive. On newer Windows XP systems you can select either the CD – RW drive or a USB memory stick. The other fields should be left as is:

New Patient Patient Optio	Plogram Export User management	
IOLMe ICH Put	Identification Measurement Values IF Lest Name IF Avail Length IF Exit Name IF Mean Values IF Date of Binh IF List of Values IF Exam Date IF Kendemeler IF ID Number IF List of Values IF Available IF Kendemeler IF Number IF List of Values IF Available IF Available IF Available IF Available IF Available IF Available IF Available IF Available	
	Field separator: Comma Field separator: Comma Decimal reparator: Col: Fill Output petr: C: CD: FNV US8 stick File name: Report cov	× 2
	0K Cancel	-

To export a file from the IOLMaster (All models), follow the instructions for patient file export which may be found in the IOLMaster User Manual for your instrument.

IOLMaster 500 Setup (IOLMaster Version 7.X)

1. From the Patient Manager screen, click on the "Wrench" Icon (Settings):





2. The Settings window will open. Click on the "Export" tab:

System					
_					
Regional s	ettings E	nglish (United State	s)	Change	
Date/time	2/	/8/2011 6:24:48 AM		Setup	
Printer setu	ip N	etworkPrinter		Open	

3. The Export tab screen will now be displayed. The middle portion of the screen has selectable options as to which measurements and patient demographics are to be included in the exported file. The picture below shows values that are <u>INCORRECT</u>:

Settings							
System	Program	Measurement	IOL	Export	Network		
Identification		🗹 Lastname	🗹 First nam	e 🗹 ID	number		
		☑ Date of birth	🗹 Examina	ion date			
Measured values	N	Axial length (option		 Keratometry Mean value 	9		INCORRECT EXPORT
	R	🗌 Composite va	lue	 List of mea 	surements		
		Anterior chamber	depth	White to white			SETTINGS!
				 List of measure 		N	SETTINGS
Field separator		Semicolon	•				
Decimal separator		Comma	•				
File name		export.csv					
Service				Save	Cancel]	



3. The Screen below shows the values set correctly for "export" to the Holladay software.

Settings System Pro	ogram Measurement IOL <mark>Export</mark> Network	
Identification	 ✓ Last name ✓ First name ✓ ID number ✓ Date of birth ✓ Examination date 	
Measured values	Axial length (optical) Axial length (optical) Individual measurements Composite value Anterior chamber depth Anterior chamber depth Composite value Com	<u>CORRECT</u> EXPORT SETTINGS!
Field separator Decimal separator File name Service	Semicolon Comma export.csv Save Cancel	

Importing Patient Data into the HIC - PRO software from removable media





1. From the "Patient Locator Screen", click on the "Import Patients from IOLMaster..." button:

	Name:	ID		10	DOB	1	Gender	
Patient Locator	PreOp Exam 301, Calc	Surgery Data	PostOp Exam	Back Calcul	tion SRC	Celculation		
	LastName:	FirstNanel		0	et Nunber:		Show Example Patients	/
	Last Name	First Name	Chart/kurbs	r.	Gender	Date of Birth	Hot Text Pollers	
	AxiaLength	Extreme	11AA		м	13-Oct-1922 1		
	101.	Phaloc	11AA		м	13-Oct-2970	Import Patientity from	<u>۱</u>
	Nanophtheimea	Young	1144		н	13-Oct-2986	SOL Master of Lenster	
	Patient	Normal	11AA		F	13-Oct-1924		/
	FostFiK	1	11AA		F	13-Oct-1946		
	Pseudophakic	Piggy2	11AA		*	13-Oct-2925		
	SMETH	ALICE	1158		P.	12-Nov-2915		
	SMETH	ALICE	1188		F	30-3un-1914	Delete Patient	
	SMETH	ALLEN	1158		м	07 May-1930		
	SMETH	ANESE	1155			07-Apr-1936		
	SMETH	AMETA	1198		F	15-Oec-1912		
	SMETH	ANN	1155		P	17-Aug-1928		
	SMETH	ARMANDO	1155		м	25-Jen-1922		
	SMITH	BESS	1,188		F	18-Feb-2908 *		
	Cuite	00		05			Orlinte Funn	

2. The program will display the "IOLMaster Import......" selection screen. Click on the "IOLMaster Data from Floppy, USB key or CD – ROM radio button, the click on the "OK" button:

Type	Location	Add IOL Maste
IOL Master	P:\Pro(Holladay\HicPro\HicPro\IolMaster\UDLMasterExportData.MD8	
IOL Master	D:\Data\Holladay\JeryMonon\UDLMasterExportData.MDB	Add Lenster.
		Remove
Please insert th Press OK to co	Item Reppy, Utab key or CD-ROM n Reppy, Utab key or CD-ROM that contains the IOL Master exposed data innue the date format for IOL Master: IMM-DD-YYYY (12-25-1996 or 12/25/1996)	

3. The HIC – PRO software will now check the various locations (Floppy drive, CD – Rom drive, USB ports) for a file entitled "export.csv":



In the example pictured below, we have exported the file onto a Floppy Diskette:

31: Floppy (A:) Image: Content of the content of th					ZEI
He Edt Vew Favorites Tools Help ③ Book - ③ - ∯ ∬ Sourch [○ Folders] → ≫ × 10 [□- obset: 3.4.1 Nome - Size Type Date Hodfied Duration Demonstrat	31: Floppy (A:)				
ddfest ∭ Arit Name ≁ Size Type Date Modified Duration Dimensions					
Name - Size Type Date Modified Duration Dimensions	G 8ach + 🕥 · 🔊	🔎 Search 🜔 Folders 🔒	🕉 🗙 🍤 💷 ·		
	Iddress JA Att		Construction of Second Bally Street		🛩 🔁 Go
1 KB Morosoft Office Exc 5/00(2007 6:02 PM	Name -	Size Type	Date Modified D	uration Dimensions	1

4. When the HIC – PRO software finds the file, it will display all of the patients it finds within the file. In our example here, we had just one patient. If multiple records are found, you can select which records to import by checking or unchecking the box to the left of the record:

Last Name	First Name	Chart Number	Date of Birth	OD	OS
Mustermann	Max	1234	Jul 16, 1965	24-Feb-05	24-Feb-05
Potter	Harry	123456	Jan 01, 1989	24-Feb-05	24-Feb-01
Smith	John	LENSTAR00121	Jun 25, 1944	15-Oct-09	15-Oct-05
🕼 Smith	Mathew	LENSTAR00122	Jun 25, 1943	15-Oct-09	15-Oct-09
Last Name	First Name	Chart Number	Date of Birth	00	0

5. Once you have selected the patients you wish to import, click on the "OK" button:

Last Name	First Name	Chart Number	Date of Birth	OD	OS
Mustermann	Max	1234	Jul 16, 1965	24-Feb-05	24-Feb-05
Potter	Harry	123456	Jan 01, 1989	24-Feb-05	24-Feb-05
Smith	John	LENSTAR00121	Jun 25, 1944	15-Oct-09	15-Oct-09
V Smith	Mathew	LENSTAR00122	Jun 25, 1943	15-Oct-09	15-Oct-09
disting Patients with I	newer Records (Pati	ents with Surgical reco	rds in the database	e are not imported)	:
xisting Patients with r Last Name	newer Records (Pati First Name	ents with Surgical reco Chart Number	rds in the database Date of Birth	e are not imported) OD	: OS



6. As we can see from the example below, the selected patient record(s) have been imported and are available on the "Patient Locator" tab of the HIC – PRO application:

Pattert Lector PatCp Exam IOL Calc Surgery Data PeatCp Exam Eack Calculation SIEC Calculation Lett Nume: PractName: Obst Hamber: Obst Hamber: Image: Calculation Image: Calculation SIEC Calculation Lett Nume: PractName: Obst Hamber: Obst Hamber: Image: Calculation	tient	Name:	ID.		DOB.	G	ender.	
Last targe Fit targe Ofart Number Gender Date of Birth Axial angh Differen 13A M 140-01-02 Image: Constraint of	Patient Locato	r PreOp Exam IOL Calc	Surgery Data Po	ostOp Exam Back	Calculation SIRC	Calculation		
Axial angh Different 13.4 M 12-00-1922 Image of the state of the s		Last Name:	First Name:		Chart Number:		Show Example Patients	
ICL PHakic IMA M I3-Oct-190 Narophalmos Youry IMA M I3-Oct-190 Patent Normal IMA M I3-Oct-190 Patent Normal IMA F I3-Oct-190 Patent Normal IMA F I3-Oct-190 Patent Postor Patentic Pograf IMA Patendorbitic Pograf IMA F I3-Oct-192 SMTH ALICE I308 F I3-Oct-193 SMTH ANTA I308 F I3-Oct-193 SMTH ANTA I308 F I3-Oct-193 SMTH<		Last Name	First Name	Chart Number	Gender	Date of Birth	Add New Patient	
Namphhalma Yung 13A M 13 Oct 395 Patent Normal 13A P 13 Oct 395 Patent Normal 13A P 13 Oct 395 Patent Normal 13A P 13 Oct 395 Patent ALICE 138 P 13 Oct 396 SetTM ALICE 138 P 13 Oct 396 SetTM ALICE 138 P 3 Alword 315 SetTM ALICE 138 P 3 Alword 315 SetTM ALICE 138 P 0 Alword 315 SetTM ALICE 138 P 0 Alword 315 SetTM ALICE 138 P 0 Alword 325 SetTM ALICE 138 P 0 Alword 325 SetTM ALICE 138 P 13 Alword 325 SetTM AMACO 138 M 23 Jane 322 SetTM AMACO 138 P 13 Alword 32 <td< td=""><td></td><td>AxiaLength</td><td>Extreme</td><td>11AA</td><td>M</td><td>13-Oct-1922</td><td></td><td></td></td<>		AxiaLength	Extreme	11AA	M	13-Oct-1922		
Nonghthelmes Young 11AA M 13-Oc.1984 Pattert Normal 11AA F 13-Oc.1984 Pattert Normal 11AA F 13-Oc.1984 Pattert Normal 11AA F 13-Oc.1984 Pattert Normal Normal F 13-Oc.1984 Pattert ALICE 1386 F 13-Oc.1984 SMTH ALICE 1386 F 03-Arrs1935 SMTH ALICE 1386 F 07-Mm-19305 SMTH ALICE 1386 F 07-Mm-19305 SMTH ALICE 1386 F 07-Mm-19305 SMTH ALICE 1380 F 07-Mm-19305 SMTH AMAGEO 1388 M 23-Jan-1932 V SMTH AMMADO 1388 F 13-Mm-1932 V			Phakic	11AA	м	13-Oct-1970	Import Patient(s) from	_
Person I 11AA P 13-Oct-1946 Person person Pograv 11AA P 13-Oct-1946 SMCH ALICE 128 P 03-An-1915 SMCH ALICE 128 P 03-An-1915 SMCH ALISE 128 P 07-Am-1920 SMCH ALISE 128 P 07-Am-1920 SMCH ANTA 120 P 15-Oct-1920 SMCH ANTA 128 P 13-An-1920 SMCH ADMADO 138 M 23-Jan-1922 SMCH ADMADO 138 P 3-An-1922		Nanophthalmos	Young	11AA	м	13-Oct-1986	IOL Master or Lenstar	
Preschofwik: Pgyp2 11AA P 13-Qc-1923 Litt Function SMTH ALICE 138 # 134e-1923 Litt Function Difference SMTH ALICE 138 # 134e-1923 Difference Difference SMTH ALICE 138 # 354-36-1914 Difference Difference SMTH ALICE 138 # 0.7Mer-1926 Difference Difference SMTH ALICE 138 # 0.7Mer-1926 Difference Difference SMTH AMSACO 138 M 25-3e-1928 Difference Difference SMTH AMMACO 138 M 25-3e-1928 Difference Difference SMTH AMMACO 138 M 25-3e-1928 Difference Difference		Patient	Normal	11AA	F	13-Oct-1924		
Paeudoptable: Pigory2 LIAA IP 12-0c-1925 SHTIM ALICE 1388 IP 12-0c-1925 SHTIM ALICE 1388 IP 02-0x-1934 SHTIM ALICE 1388 IP 02-0x-1934 SHTIM ALICE 1388 IP 07-0x-1934 SHTIM ALICE 1388 IP 07-0x-1934 SHTIM ALICE 1388 IP 07-0x-1934 SHTIM ANACO 1388 M 23-3x-1932 SHTIM ASHADO 1388 IP 12-0x-1932 SHTIM ASHADO 1388 IP 12-0x-1932		PostRK	1	11AA	F	13-Oct-1946	Edit Patient	
94TH ALIZ 128 P 30-3a-314 Delate Patient 94TH ALEN 158 M 074w-1035 Delate Patient 94TH ANDZ 138 F 074w-1035 Delate Patient 94TH ANDZ 138 F 074w-1035 Delate Patient 94TH ANTA 120 F 124w-1028 SetTH AMMADO 188 M 23-3w-1028 E 94TH AMMADO 188 M 23-3w-1028 E SetTH SetTH 24-3w-1028 E E 94TH 0555 1.128 F 124-6:1038 E E			Piggy2	11AA		13-Oct-1925		
OMTH ALEN 138 M O PMey:320 SMTH ANDE 138 F 074ey:325 SMTH ANCTA 120 F 174ey:326 SMTH ANCTA 120 F 174ey:326 SMTH ANCTA 120 F 174ey:326 SMTH ANNACO 138 M 25-3ey:322 SMTH ARMACO 138 M 25-3ey:322 SMTH BESS 128 F 38-69:308				1188		12-Nov-1915		
SMTH ANCE 138 F 07449-1036 SMTH ANTA 1300 F 1500-0112 SMTH ANN 1300 F 174up-1028 SMTH ANN 1300 F 174up-1028 SMTH ANNALOO 1388 M 23-3up-1022 SMTH BESS 1.288 F 324-6b-1008							Delete Patient	
SMTH AUTA 130 F 150ec:912 SMTH ANN 1300 F 174ec:912 SMTH ANN 130 F 174ec:912 SMTH ANNACCO 1380 M 27-3m-312 SMTH ARMACCO 1380 F 28-3m-312 SMTH 2655 1280 F 38-76b:208		SMETH	ALLEN	1188		07-May-1920		
94TH AN 120 F 17-4u-122 94TH AMMADO 138 M 22-3m-322 94TH 8655 128 F 32-6m-322								
940TH AMMACO 1388 M 25-36-542 540TH 9555 1288 F 38-765-2008 *		SMETH	ANETA	1158	F			
94TH 863 128 F 18Feb-1998 *		SMETH		1100	F	17-Aug-1928		
Deter CO OS Deter Exam		SMITH	BESS	1168		18 Feb-1908 *		
Date UD US Delete Econ								
		Date	00	6	5		Delete Exam	
Main Menu Help Quit Export Patient List Print Patient List <- Prev Pred					1			reOp

B. Export/Import Via the Network (Ethernet) connection

Notes:

Network Requirements

The IOLMaster is configured to use DHCP (Dynamic Host Configuration Protocol). The IP address and other network information needed to successfully connect the IOLMaster to your network and to access the shared network folder "Export" will be automatically provided by a DHCP server.

The data transfer is handled by a MS Jet database (version 4). This database is stored in the shared network folder "Export" located on the IOLMaster hard disk drive. The name of the export database is "IOLMasterExportData.mdb".



The IOLMaster shall only be connected to private networks, which are protected from public networks (Internet) by firewalls conforming to the latest technical standards! A standard patch network cable, Cat 5, with two RJ-45 connectors should be used to connect the IOLMaster with the network. A network isolator must be placed inbetween IOLMaster (NET) and network cable. A network isolator (part number 000000- 0448-931) can be ordered from Carl Zeiss for connection to the external network (NET). Attention should be paid to the specific safety regulations (EN 60601-1-1 / IEC 60601-1 (see IOLMaster Instruction Manual).

IOLMaster Setup (IOL Software versions 4.X, 5.X, 5.5, and 7.X)

Import of Patient records via Ethernet is only possible on IOLMaster systems which are running Windows XP operating systems, and which have Option A+ installed on the IOLMaster. The IOLMaster comes factory configured for DHCP type networks. If the IOLMaster is connected to a network with other than DHCP protocols, it will be necessary for a factory trained Zeiss Field Engineer to be present during the setup time to grant a networking professional to access the network setup of the IOLMaster.

Provided that both the IOLMaster and the host PC running the HIC – PRO software are connected to a DHCP network, the IOLMaster can be located on the customer's network using the following instructions:

1. In order for the HIC – PRO software application to import patient files across the Ethernet connection, it must first "find" the IOLMaster on the network.

2. From the "Patient Locator Screen" click on the "Import Patients from IOL Master..." button:



3. The "IOL Master/Lenstar Import selection" window will open. Click on the "IOL Master..... Network Connection" radio button to select it. Also select the date range of the exams you wish to import from the drop menu, then click on the "Add IOL Master" button:

	2	ZEISS
Master/Lensta	Import selection	
 IOLMaster/Len 	star Network Connection	
Туре	Location	Add IOL Master Add Lenstar Remove
AI Es AI Es AI Es AI Es AI Es AI Es AI Es AI Es	ams taken the last 7 days ams taken the last 3 days ams taken the last 15 days ams [This may take a long time] In long ta long take a long time] In long take a long take a lon	
	OK Cancel	

4. A Microsoft Windows Explorer window will open. Find and Double – Click on "My Network Places":





5. When the "My Network Places" window opens, locate and Double – Click on "Entire Network":



6. All of the various networks that your system may connect to are displayed. Find and Double – Click on "Microsoft Windows Network":





7. All of the "workgroups" which are part of your Microsoft Windows Network will now be displayed. Locate the workgroup entitled "Zeiss_workgroup". Double – Click on this workgroup:

Open		? 🔀
Look in:	🕙 Microsoft Windows Network. 🕥 🔇 🎓 🗁 🖽 -	
My Recent Documents	Actinical A Tech_supp Actinical A Texisuppec Actinet A Usdqb A Dell/2000 A Visupac	
Desktop	A Eegroup A Workgroup A Eng A Zeiss_workgroup A Fin A ≤ 15	
My Documents	A Home Macrof Meccad Mshome	
My Computer	¥ Nasgroup ¥ Software ¥ Systems	
My Network Places	File name:	Open Cancel

8. All of the computers which are part of the "Zeiss_workgroup" will now be displayed. In our example, we have two different IOLMaster's, and the computer that we have the HIC – PRO software loaded on. Double – Click on the IOLMaster that you wish to connect to and import from:





9. If this is the first time you have connected to this IOLMaster, you will be prompted for a User name and Password:

Open	Conn	ect to ioln	n801936		? 🔀	? X
Look in:				E	-	
My Recent Documents	Io Io Conn	ecting to Iolr	m801936			
		name:	1		~	
Desktop	Pass	vord:	Remember my p	accuord		
<u>()</u>				assword		
My Documents			OK	Can	:el	
I			1			
My Computer						
S	File name:	Y.			~	Open
My Network Places	Files of type:	IOL M	laster Export Database (*	.mdb)	~	Cancel

10. Type in the following, EXACTLY as shown:

User Name --- IOLMaster

Password --- IoIm_XP

NOTE: You will not see what you are typing as a password, as it will only display dots, so be very careful when typing the password.

Connect to ioln	1801936 🔹 👔 👔
R	GA
Connecting to Iol	n801936
User name:	🖸 IOLMaster 🛛 😽
Password:	•••••
	Remember my password
	OK Cancel



11. If you have correctly entered the proper User Name and Password, the software will display this screen while it searches for "shared" folders on the IOLMaster:

Open						? 🔀
Look in:	😼 lolm801936		~	0 🕫	D	
My Recent Documents						
Desktop						
My Documents			G			
My Computer						
San	File name:				• (Open
Places	Files of type:	IOL Master Export D	atabase (* mdb)		~	Cancel

12. The software should find the default shared "Export" folder. Double - Click on this folder:

Open					2 🔀
Look in:	🥥 Lolm801936	[v 🔾 💋	12 🖽 -	
My Recent Documents	Export				
Desktop					
My Documents					
My Computer					
My Network Places	File name: Files of type:	IOL Master Export Database (*)		~	Open Cancel



13. The contents of the "Export" shared folder will now be displayed. We can see the desired database file, which is entitled "IOLMasterExportData.MDB". Double – Click on this file to open it and return to HIC – PRO:

Open		? 🔀
Look in	🔓 Export on Iolm801936 🕥 🗿 🎓 🖽	
My Recent Documents	COLMasterExportData.MDB	
Desktop		
Documents		
My Computer		
My Network Places	File name:	Open Cancel

14. The program will return to the "IOL Master Import selection" window, and the IOL Master will be shown in the list of networked IOL Masters. Note that in our example, we have connected to two different IOL Masters:

	Location	Add IOL Maste
IOL Master	\\lolm1034014\Export\IDLMasterExportData.MDB \\lolm801936\Export\IDLMasterExportData.MDB	
TOL Master	(Tolliloo 1330 VEXport VISEMASCHEXportData.mDB	Add Lensta.
		Remove
Import AI E	kams (This may take a long ime)	
	ß	
IOL Master Dat	a from Floppy, Usb key or CD-ROM	
Please insert the Press OK to co	ie floppy, Usb key or CD-R0M that contains the IOL Master exported data. Intinue	



15. Highlight the IOLMaster that you wish to import patient files from. If necessary, also select the desired date range from the drop menu, then click "OK":

IOL Master		Add IOL Master
	\\lolm1034014\Export\IOLMasterExportData.MDB	
IOL Master	\\lolm801936\Export\IOLMasterExportData.MDB	Add Lenstar
		Remove
		L
mport All Ex	kams (This may take a long time)	
mport riner		
DL Master Data	a from Floppy, Usb key or CD-ROM	
	re floppy, Usb key or CD-ROM that contains the IOL Master exported data.	
Please insert th Press OK to co	ie floppy, Usb key or CD-ROM that contains the IOL Master exported data. Intinue	
Please insert th Press OK to co	re floppy, Usb key or CD-ROM that contains the IOL Master exported data.	
Please insert th Press OK to co	ie floppy, Usb key or CD-ROM that contains the IOL Master exported data. Intinue	

Import	All Exams taken the last 7 days	~	
	All Exams taken the last 3 days All Exams taken the last 7 days		
<u> </u>	All Exams taken the last 7 days All Exams taken the last 15 days		
O IUL Maste	All Exams taken the last 30 days All Exams (This may take a long time)		
Please ir	set the floppy, Usb key or CD-ROM that contains the IOL Master $\epsilon \leq t_0$ continue	xported data.	
Please s	pecify the date format for IOL Master: MM-DD-YYYY (12-25-1996	or 12/25/1996)	

16. Depending on the number of patients that the system has to import, several minutes might go by while the patients are being imported from the selected IOL Master. After the import has been completed, the system will return to the patient selection menu:

						ZEISS
o <mark>lladay IDL C</mark> a View Help	onsultant - Carl Zeis	s Meditec Training				
tient	Name:	ID:		DOB:		Gender:
Natient Locator	PreOp Exam 30L 0	Calc Surgery Data Post Pirst Name:	Op Exam Back Cr	Chart Number:	ation	Show Example Patients
	Last Name	First Name	Chart Numbe	r Gender	Date of Birth	Add New Patient
	ICHECK Doofus Dugal Erika Filh	DEVICE) Denny Denny 13 Frank	101		01-3an-1911 10-Nov-1943 10-Nov-1943 11-Nov-1911 11-3ul-1955	Import Patient(s) from IOL Master or Lenster
	Groh mouse Pablent	Rachel minnie Test			27-Aug-1900 17-Jan-2000 10-Nov-1943	Edit Patient
	System Thomas	Test Dan			10-Nov-1943 02-3ul-1968	Delete Patient
	Date	00		05		Delete Exam
			L2			
			-16			
Main Menu	Help	9.4	ſ	Export Patient List	Print Patient List	. < Prev PreOp
	Holiaday IOL Consult					240620

The above procedure assumes that the customer has connected both the computer with the Holladay IOL Consultant software (HIC – PRO) AND the IOL Master XP to their network, and that the network is a DHCP configured network.

If the network settings are different, a CZMI Field Engineer will have to grant access to the configuration of the IOLMaster network connection.

This procedure has been presented for informational purposes only. CZMI does not provide technical support for the Holladay IOL Consultant software. For support of this product, please contact Dr. Holladay at <u>www.docholladay.com</u>

IOLMaster 500

NOTE:

The IOLMaster 500 is pre-configured for a DHCP network.

If a Static IP address is needed for the IOLMaster XP, it will require a visit by a CZMI Field Engineer to obtain access to the network configuration files in Control Panel.

The *Professional Edition* of the IOL Consultant program is required for the import feature to work. For details on obtaining the IOL Consultant program, contact <u>www.docholladay.com</u>

NOTE:

This presentation addresses only a *NETWORK* type connection between the IOLMaster XP system and a remote PC that has the Holladay Consultant software installed. Older IOLMasters, or IOLMasters which are NOT connected to a network, utilize the export features of the IOLMaster to export patient data to either a floppy diskette, a CD-RW disc, or a USB memory stick, and the import features of the Holladay Consultant software.

The IOLMaster shall only be connected to private networks, which are protected from public networks (Internet) by



firewalls conforming to the latest technical standards! A standard patch network cable, Cat 5, with two RJ-45 connectors should be used to connect the IOLMaster with the network. A network isolator must be placed between IOLMaster (NET) and network cable.

A network isolator (part number 000000-0448-931) can be ordered from Carl Zeiss for connection to the external network (NET). Attention should be paid to the specific safety regulations (EN 60601-1-1 / IEC 60601-1 (see IOLMaster Instruction Manual).

To ensure that the Holladay II software will import the correct parameters from the IOLMaster 500, please verify that the "Export" tab settings on the IOLMaster 500 are set as shown below:

settings						
System	Program	Measurement	IOL	Export	Network	
Identification		 Last name Date of birth 	 ✓ First name ✓ Examinati 		number	
Measured valu	es	 Axial length (option Individual measure Composite value 	asurements lue	 Keratometry Mean value List of measurements 		
		Anterior chamber	r deptri	White to white Current value List of mease	ie	
Field separator		Semicolon	•			
Decimal separ	ator	Comma	•			
File name		export.csv				
Service				Save	Cancel	

In order to access the patient database on the IOLMaster 500 the Holladay IOL Consultant software must "find" the IOLMaster 500 on the network.



From the Patient Locator Screen, click on the Import Patient(s) from IOLMaster... button:

File View H	Contraction of the Contraction o									
atent_	Name	10		008	Gen	MR 111	R			
PatientLocator	PreOp Event 105 Calc	Surgery Deta	PostOp Earn Beck	Caludation SPC	Calculation		1			
	Last Name:	PestName		Outliveler:		2 Show Example Partents	1			
	Last Name	Festivere	Owthele	Gender	Date of Brits	Add Inc. Patent				
	Asialangh	Extreme	1544	84	13-049-1822					
	10.	Photo:	1144		13-0:0-1970	Seport Patientici Itom				
	Nanophitralinus	have	LUAA	м	13-015-1886	SOL Maeter or Lensler				
	Faterit	Nemal	LIAA		13-017-2524					
	Pagilit.	1	LUAR		13-0:5-1946	Tati Patienti				
	Pseudopholic	Progy2	E104A		13-0:1-1925					
	SHETH	ALICE	1100		124ev-1915					
	SHETH	AUCE	1.070		30-lap-2814	Delete Pyters				
	SHETH	ALLEY	1100	M	d14May-1920					
	SHETH	AV458	1.095		67-Apr-0536		N			
	3HETH	ANETA	1100		13-Dec-1912					
	3HETH	ANN	1100		17-Aug-1928					
	1942704	AMMANDO	1.000		25-349-2822					
	39379	M215			18-Feb-1908 *					
	Date	00		s						
	194			a		Feirin Fase				
									Town to Date - 1/-	16
									Import Patient(s	1 From
								1 3	authorized action of a	,
										And a second
									TO Master or Lor	
			172			100000			IOL Master or Ler	nstar
Nan Neru	into Out		6.0	etPalential	Prest Parlamit Last	n National Prepage - A			IOL Master or Ler	nstar
Nger Marra	nt Ort		Exp	ertPalert Lal	Prec Paleri Uni				IOL Master or Ler	nstar

The IOLMaster/Lenstar Import selection screen will appear as shown below. Check the radio button for IOLMaster Network Connection. Note that in this example there is already an IOLMaster that has been added to the Holladay II program. We will now demonstrate how to add a new one:

IOLMaster/Lenstar Import selection	
O IOLMaster/Lenstar Network Connection	
Type Location	Add IOL Master
IOL Master \\lolm1034014\Export\IOLMasterExportData.MDB	Add Lenstar
	Remove
	R
Import All Exams taken the last 7 days IDL Master Data from Floppy, Usb key or CD-RDM Please insert the floppy, Usb key or CD-RDM that contains the IDL Master exported data. Press OK to continue Please specify the date format for IDL Master: MM-DD-YYYY (12-25-1996 or 12/25/1996)	
OK Cancel	



With the IOLMaster/Lenstar Network Connection radio button checked, click on Add IOLMaster:

Туре	Location		Add IOL Maste
IOL Master	\\lolm1034014\Export\IOLMasterExportData.MDB		Add Lenstar
			Remove
	ams taken the last 7 days	R	

A Windows file explorer will open. Click on My Network Places:

en						?
Look in:	🙆 My Docume	ents	~	00	P	
My Recent Documents Desktop My Documents My Computer	Blackberry CD Label Ten CD Label Ten CD Label Ten CD UMsster_CC My MeBooks My Pictures My Videos Webshots Da	Convert				
•	File name:				~	Open
My Network Places	Files of type:	IOL Master Export Da			~	Cancel



Double click on Entire Network:

Open		? 🔀
Look in:	My Network Places 💽 😗 📴 🕶	
My Recent Documents	Entire Network My Web Sites on MSN Suser on server3	
Desktop		
) My Documents		
My Computer		
My Network Places	File name: Image: Interview Files of type: IOL Master Export Database (".mdb)	Open Cancel

Double click on Microsoft Windows Network:

Open						? 🔀
Look in:	🥌 Entire Netw	rork	~	G	1 12	
My Recent Documents	Microsoft Ter Microsoft Wii Netware Ser Web Client N	ndows Network vices				
My Documents						
My Computer						
My Network Places	File name: Files of type:	IOL Master Export Database	e (* mdb	1	~	Open Cancel



Double Click on Zeiss_workgroup:

Open							? 🗙
Look in:	🕙 Microsoft W	indows Network	~	00	P	-	
My Recent Documents	Clinical Czmi Cznet Dell4200 Eegroup Eng Fin Gx115 Home	Tech_supp Torisupac Usdqb Visupac Workgroup Zeiss_workgroup					
My Documents	Macrof Mecad Mshome Nasgroup						
My Computer	Systems						
🧐 My Network	File name:				~		Open
Places	Files of type:	IOL Master Export Databas	se (*.mdb)	~		Cancel

Any and all computers which are attached to the "Zeiss_Workgroup" will be displayed. Double click on the IOLMaster where the desired database is located:

)pen					? 🔀
Look in:	🔏 Zeiss_workg	roup	~ (3	🤌 🕫 🛄	•
My Recent Documents	Dennys Lapto	p (Czm-ddugal)			
Desktop					
My Documents					
My Computer					
San My Network	File name:			~	Open
Places	Files of type:	IOL Master Export Databas	e ([×] .mdb)	~	Cancel



If this is the first time you are trying to connect to this IOLMaster, the "Connect to iolmXXXXXX," where XXXXXX is the serial number of the desired IOLMaster dialogue box will open. You must enter the correct User Name and Password in order to connect to the database:

Open		Connect to iolm801936	? 🗙
Look in:	😨 I 😼 De] -
My Recent Documents	Io Io	Connecting to Iolm801936	
		User name:	
Desktop		Password:	
>		Remember my password	
My Documents		OK Cancel	
My Computer			
			
My Network	File na		Open
Places	Files o	f type: IOL Master Export Database (*.mdb)	Cancel

In the **User Name** dialogue box, type *IOLMaster* EXACTLY as shown:

Connect to ioln	1801936 🔹 👔 🔀
	GA
Connecting to Iolr	n801936
User name:	🖸 IOLMaster 🖌
Password:	I
	Remember my password
	OK Cancel



In the **Password** dialogue box, type *lolm_XP* EXACTLY as presented here. The actual password you entered will appear as dots, so be very careful as you type:

Connect to iolm	801936 ? 🔀
	Gra
Connecting to Iolm	801936
User name:	🖸 IOLMaster 🖌 🖌
Password:	•••••
	Remember my password
	OK Cancel

If you have entered the User Name and Password correctly, the software will now search for shared folders on the selected IOLMaster:





Here we see that the program found a shared folder called "Export." This is the default folder for the IOLMaster export database. Double click on the **Export** folder:

Open					? 🔀
Look in	Jolm801936	;	~ ()	🏂 📂 🛄-	
My Recent Documents	Export				
Desktop					
My Documents					
My Computer					
My Network	File name:			~	Open
Places	Files of type:	IOL Master Export Database	e (*.mdb)	~	Cancel

The **IOLMasterExportData.MDB** is the export database that we wish to import the patient files from. Double click on this file:

Open						? 🗙
Look in:	😪 Export on lo	olm801936	~	00	> 🛄 •	
My Recent Documents	IOLMasterE×	portData.MDB				
Desktop						
My Documents						
Wy Computer						
My Network	File name:				~	Open
Places	Files of type:	IOL Master Expo	rt Database (*.mo	ib)	~	Cancel



The program will return to the **IOLMaster/Lenstar Import selection window**, and the added IOLMaster will appear in the listing:

	Location	Add IOL Maste
IOL Master IOL Master	\\lolm1034014\Export\IOLMasterExportData.MDB \\lolm801936\Export\IOLMasterExportData.MDB	
IUL Master	Violiniou 1936 VExport VULMasterExportUlata.MUB	Add Lenstar
		Remove
mport All Ex.	ams (This may take a long time)	
DL Master Data	from Floppy, Usb key or CD-ROM	
	e floppy, Usb key or CD-ROM that contains the IOL Master exported data.	

Highlight the IOLMaster you wish to import patients from, and also select which exams you wish to import from the drop-down menu:

Type IOL Master	Location \\lolm1034014\Export\IDLMasterExportData.MDB	Add IOL Master
IOL Master	Volm801936/Export/IOLMasterExportData MDB	Add Lenstar
		Remove
IOL Maste All Ex All Ex	Arams taken the last 7 days Arams taken the last 3 days Arams taken the last 15 days Arams taken the last 15 days Arams taken the last 30 days Arams (This may take a long time) If his may take a long time a lon	



Click on **OK**:

IOL Master	Location \\lolm1034014\Export\IOLMasterExportData.MDB	Add IOL Master.
IOL Master	Volm801936\ExportVDLMasterExportData.MDB	Add Lenstar
		Remove
mport All Ex	ams (This may take a long time)	
DL Master Data	from Floppy, Usb key or CD-ROM	
	- Revenue 11-by law as CO, DOM Must constrain the 101. Master superited data	
	e floppy, Usb key or CD-ROM that contains the IOL Master exported data. ntinue	

Depending on the number of patients the system has to import, several minutes might go by while the patients are being imported from the selected IOLMaster. After the import has been completed, the system will return to the patient selection menu:

View H						2010/2010	
ent_	Name:	ID.		DOB.	G	iender.	
ient Locato	PreOp Exam 10L	Calc Surgery Data Post	op Exam Back Ca	kulation SIRC Calcula	ition		
	Last Name:	First Name:		Chart Number:		Show Example Patients	
	Last Name	First Name	Chart Number	Gender	Date of Birth		
	ICHECK	DEVICEI	101	Sterner	01-Jan-1911	Add New Patient	
	Doofus	Denny	101		18-Nov-1943		
	Dugal	Denny			18-Nov-1943	Import Patient(s) from	
	Erika	13			11-Nov-1911	IOL Master or Lenstar	
	FFI	Frank.			11-3ul-1955		
	Groh	Rachel			27-Aug-1980	Edt. Patient	
	mouse	minnie			17-3an-2000	EGG PROFIL	
	Patient	Test			18-Nov-1943		
	System Thomas	Test Dan			18-Nov-1943 02-Jul-1968	Delete Patient	
	triongs	Can			06-30-1300	Address Construction	
	Date	00					
	Date	00		03		Delete Exam	
			b.				
			5				
			0				
Menu	Help	Que		Export Patient List	Print Patient List	-K Prev	



This process assumes that the customer has connected both the computer with the Holladay IOL Consultant software AND the IOLMaster 500 to their network, and that the network is a DHCP configured network.

If the network settings are different, a CZMI Field Engineer will have to grant access to the configuration of the IOLMaster 500 network connection.

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