

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

The IOLMaster<sup>®</sup> 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:			
				<b>A</b>
	र			▼ ►
	New	Open		



Now click on "About IOLMaster":

New Patient					
About IOLMaster	Last Name:				
	First Name:				
CHECK, DEVICE!, 01/01/1911     Set 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:				
					<b>T</b>
	<u>.</u>			Þ	
		1			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:

Abo	ut IOLMaster® Adva	anced Technology		act Name: 1
	ZEISS	Copyright Carl Zeiss IOLMaster, Version:	1999, 2008 5.4.4.0006	IOLMaster, SW Option A+
	The Winner of	Ker. UII: Vkt. DII: Wzw. DII: Database : Database : Cornea DII: Piol DII: Lasiol DII: Lasiol DII: Computer name:	2.00.0064 1.00.0002 1.04.0006 6.01.0030 1.00.0003 1.01 1.02 1.01 1.01 1.00 IOLM	© Carl Zeiss 1999, 2009 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" Icon in the upper right corner of the "Patient Manager" screen and click on it:

ivew patient		Pati	ient list		Ultras	ound	
Last name							
First name							
Date of birth		Da	te has not beer	n defined! MN	1/DD/\^^	Ŷ	
Patient ID							
Sex	not know	wn	•				
Remarks							<u>^</u>
Remarks							< >
Remarks	OD			05			2
Remarks	OD Sph [D]	Cyl [D]	Axis [°]	OS Sph [D]	Cyl [D]	Axis [°]	
Remarks	OD Sph [D] 0	су! [D] 0	Axis [°] 0	<b>OS</b> Sph [D] 0	Cyl [D]	Axis [°]	
Remarks Refraction Visual acuity	OD Sph [D] O	Су! [D] 0	Axis [°] 0	OS 5ph [D] 0	Cyl [D]	Axis [°] 0	~
Remarks Refraction visual acuity Eye status	OD Sph [0] 0 Phakic	су![D] 0	Axis [°] D	OS Sph [D] D Phakic	Cyl [D] 0	Axis [°] 0	

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 7 pics 1999 2008
	ACD. DII :	1.00.0002	
100	Wzw. DII :	1.04.0006	IOLMaster,
211	GIF :	8.05.0002	SW Ontion N
	Database :	1.00.0003	011 0040111
10.14	Comea DII :	1.01	© Carl Zeiss 1999, 2008
10 Years	Piol DII :	1.02	IOI Master
IOLMaste	Lasiol DII :	1.01	ioemasia,
Beyond Biomet	V 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:				
🕅 Setup 🔹	Diate/Time	First Name:				
* Service	Program Settings	Date of Birth:				
<ul> <li>Public, John G</li> </ul>	Penter	ID Number.				
	SW Option .	Refraction CD (D):	0	0	0	•
	Update	06 (D);	0	0	0	•
		Visual Acuity OD:		_		
		05:		_		
		Remark				
						<u> </u>
						-
		71			F	đ
		hand a				

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	J
IOLMe ICH Put	Identification         Measurement Values           IF Lets Name         IF Assolutions           IF Exit Name         IF Mone Values           IF Date of Binh         If List of Values           IF Exam Date         IF Keatomoles           IF D Number         If Anti-Values           IF Assolution         If Anti-Values           IF Assolution         If Anti-Values           IF Assolution To Walke         If Anti-Values           IF Asterior Values         If Anti-Values           IF Asterior Values         If Active Values           IF If Values         If Active Values	
	Field separator: Comma  Field separator: Comma  Decimal reparator: Corr Output pells: CD-RW CUS8 stock File name: Report cov	×
	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:

Settings					
System	Program	Measurement	IOL	Export	Network
Regional	settings Er	nglish (United State	s)	Change	
Date/time	e 2/1	8/2011 6:24:48 AM		Setup	
Printer se	etup Ne	etworkPrinter		Open	
	1				

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 P	rogram	Measurement	IOL	Export	Network	
Identification		🗹 Lastname	🗹 First nam	e 🗹 ID	number	
		Date of birth	🗹 Examina	tion date		
Measured values	Q	<ul> <li>Axial length (option</li> <li>Individual mean</li> <li>Composite value</li> </ul>	cal) isurements lue	<ul> <li>Keratometry</li> <li>Mean value</li> <li>List of mea</li> </ul>	e surements	<b>INCORRECT</b> EXPORT
		Anterior chamber	rdepth	White to white O Current value List of measure	a surements	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 <b>Export</b> Network	
Identification	Lastname     Firstname     ID number     Date of birth	
Measured values	Axial length (optical)     Individual measurements     Composite value     Anterior chamber depth     Anterior chamber apth     Composite value     Outs of measurements     Outs of measurements	<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:

Patient_	Name	ID.		DC	8	Ge	sder	
Patient Locator	PreOp Esam   30L Calc	Surpery Data   P	ostOp Exam   i	lack Calculation	SRC Calculat	ion		
							-	, ,
	ast Nane:	FistNate		Chart Nunb	5/1		Show Example Pate	° /
	Last Name	First Name	Chart/Numbe	r Gen	ler Date	of Birth	HOST NEW Paller	
	AxiaLength	Extreme	11AA	м	13-0	ct-1922 1		$\sim$
	101.	Phakic	1144	м	13-0	et-2970 🖌 👔	Import Patientity	from
	Nanophitheimea	Young	1144	м	13-0	ct-2986	JOL Master & Lere	star
	Patient	Normal	11AA	F	13-0	ct-1924		
	PostRiK	1	1144		13-0	ct-1946		
	Pseudophakic	Piggy2	11AA	,	13-0	ct-2925		
	SMETH	ALICE	1158	F	12-16	29-2915		
	SMETH	ALICE	1188	F	30-3	n-1914	Delicte Patient	
	SMETH	ALLEN	1155		0749	ry-1930		
	SMETH	ANESE	1155		07-A	pr-1936		
	SMETH	AMETA	1198	F	15-0	nc-1912		
	SMETH	ANN	1150		17-A	xg-1928		
	SMETH	ARMANDO	1155	н	25-3	n-1922		
	SMITH	BESS	1188	P.	18-Fr	to-1908 *		
	Parks	~		~				
							Deele exam.	
Hain Menu	Help. Quit			Export Patient List	Print Pa	Sent List	c-Pres	PreOp>

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:\Proj\Holladay\HicPro\HicPro\JolMaster\JOLMasterExportData.MDB	
IOL Master	D:\Data\Holladay\JerryMonon\IOLMasterExportData.MDB	Add Lenster.
		Remove
DL Master Data Please insert th Ptess DK to co	from Floppy, Usb key or CD-ROM a Roppy, Usb key or CD-ROM that contains the IOL Master exported data since	

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:

3 11; Flooppy (A:)     Image: Color Help       The Edit Wern Favorites Tools Help     Image: Color Help       Image: Color Help     Image: Color Help					ZEI
File     Call     Verw Favorites     Tools     Help       Image: Call     Image: Call     Image: Call     Image: Call     Image: Call       Image: Call     Image: Call     Image: Call     Image: Call     Image: Call       Image: Call     Image: Call     Image: Call     Image: Call     Image: Call       Image: Call     Image: Call     Image: Call     Image: Call     Image: Call       Image: Call     Image: Call     Image: Call     Image: Call     Image: Call	31: Floppy (A:)				
Intel - Original Sector     Image: Sector	File Edit View Favorites	Tools Help			1
Mone → Size Type Date Modified Duration Devendings	🔾 Back • 🕥 · 🍠	🔎 Search 🜔 Folders 🔒	🕉 🗙 🍤 💷 ·		
Neme →         Size         Type         Date HodRed         Duration         Description           Seepart.ov         1 KB         Microsoft Office Exc         5/30(2007 6-02 PM         Fill	Address JA Att		Construction of the state of the state		🛩 🔁 Go
1 KB. Morosoft Office Exc 5(30)2007 6:02 PM	Name -	Size Type	Date Modified	Duration Dime	nsions

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	00	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
Smith Smith	Mathew	LENSTAR00122	Jun 25, 1943	15-Oct-09	15-Oct-09
visiting Patients with	newer Records (Patie	ents with Surgical reco	rds in the database	are not imported)	t:
xisting Patients with Last Name	newer Records (Patie First Name	ents with Surgical reco Chart Number	rds in the database Date of Birth	are not imported) OD	: OS
visting Patients with Last Name	newer Records (Patis First Name	ents with Surgical reco Chart Number	rds in the database Date of Birth	are not imported) OD	: OS
xisting Patients with : Last Name	newer Records (Palis First Name	ents with Surgical reco	rds in the database Date of Birth	are not imported) OD	i: OS

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
🗹 Smith	Mathew	LENSTAR00122	Jun 25, 1943	15-Oct-09	15-Oct-09
disting Patients with r	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
xisting Patients with r Last Name	newer Records (Patie	ents with Surgical reco Chart Number	rds in the database Date of Birth	e are not imported) OD	: OS
xisting Patients with I	newer Records (Patie	ents with Surgical reco	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:

tient 🚬	Name:	ID.		DOB.	Gi	ender.
Patient Locat	PreOp Exam   IOL Calc	Surgery Data Po	ostOp Exam Back	Calculation SIRC	Calculation	
	Last Name:	First Name:		Chart Number:		Show Example Patients
	Last Name	First Name	Chart Number	Gender	Date of Birth	Add New Patient
	Axial.ength	Extreme	11AA	M	13-Oct-1922 #	
	101.	Phakic	11AA	м	13-Oct-1970	Import Patient(s) from
	Nanophthalmos	Young	11AA	м	13-Oct-1986	IOL Master or Lenstar
	Patient	Normal	11AA	F	13-Oct-1924	
	PostRK	1	11AA	F	13-Oct-1946	Edit Patient
	Pseudophakic	Piggy2	11AA	F	13-Oct-1925	
	SMETH	ALICE	1188	F	12-Nov-1915	
	SMETH	ALICE	1188	F	30-Jun-1914	Delete Patient
	SMETH	ALLEN	1188	M	07-May-1920	
	SMETH	ANDSE	1158	F	07-Apr-1936	
	SMETH	ANETA	1158	F	15-Dec-1912	
	SMETH	ANN	1100	F	17-Aug-1928	
	SMETH	ARMANDO	1188	м	25-Jan-1922	
	SMETH	BESS	1168		18 Feb-1908	
	Date	OD	6	5		Delete Exam
				1		

## 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	
<ul> <li>IOLMaster/Len</li> </ul>	star Network Connection	
Туре	Location	Add IOL Master Add Lenster Remove
Import AI E AI E AI E AI E AI E AI E AI E AI E	tams taken the last 7 days ams taken the last 30 days ams taken the last 90 day	
	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         Artech_supp           Active         Artech_supp           Acti	
Desktop	K Eegroup AWorkaroup K Eng KyZeiss_workgroup K Fin M Gx115	
My Documents	A Home A Macrof A Macrod A Mahome	
My Computer	i¥ Nasgroup i¥ Software i¥ Systems	
My Network Places	File name:	Open

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	Conne	ect to iolm8	01936		? 🔀	? ×
Look in:		X		E P	-	
My Recent Documents	Io Conne	cting to Iolm8	01936			
	User r	name:	<b>2</b>		~	
Desktop	Passw	ord:	Remember my pa	assword		
My Documents			OK	Canc	el	
My Computer						
en 1	-					
My Network	File name:				·	Open
Places	Files of type:	IOL Mas	ter 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 🕫	19 🛄 -	
My Recent Documents						
Desktop						
My Documents			ß			
Wy Computer						
S My Network	File name:				~	Open
Places	Files of type:	IOL Master Export D	atabase (* mdb)	E	~	Cancel

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

Open				? 🔀
Look in	🥥 Loim801936	~	G 🤌 🕫 🖽	-
My Recent Documents	Export			
Desktop				
My Documents				
My Computer				
My Network Places	File name:	IDI Master Evnort Database (* och		Open



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	CICIMasterExportData.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 Mast
IOL Master	\\lolm1034014\Export\IOLMasterExportData.MDB \\lolm201925\Export\IDLMasterExportData.MDB	
TOL Master	Violinou 1356 AExport 45 Emastele xporte ata.mete	Add Lensta
		Bemove
Import AIE	kams (This may take a long time)	N
		4
IOL Master Dat	a from Floppy, Usb key or CD-ROM	
Please insert the Press OK to co	ie roppy, uso key or uu-Hum mar contains the IUL Master exported data. ntinue	



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 VVolm1034014VExportVIOLMasterExportData. IOL Master VVolm801936VExportVIOLMasterExportData.M	MDB DB
IOL Master   \\lolm801936\Export\\OLMasterExportData.M	DB Add Lepstar
	Bemove
All Europe (This may take a long time)	
Inport I in Enance (The may care a rong ane)	
DL Master Data from Floppy, Usb key or CD-ROM	
Disease insert the disease 11-b lines as CD, DOM the Constants the 10	
Please insert the floppy, Usb key or CD-ROM that contains the IO Press OK to continue	L Master exported data.
Please insert the floppy, Usb key or CD-ROM that contains the IO Press OK to continue	L Master exported data.
Please insert the floppy, Usb key or CD-ROM that contains the IO Press OK to continue Please specify the date format for IOL Master: MM-DD-YYYY (1	L Master exported data.
Please insert the floppy, Usb key or CD-ROM that contains the IO Press OK to continue Please specify the date format for IOL Master: MM-DD-YYYY (1	L Master exported data.

Import	All Exams taken the last 7 days	~	
	All Exams taken the last 3 days All Exams taken the last 7 days All Evanse taken the last 15 days		
🔘 IOL Maste	All Exams taken the last 30 days All Exams (This may take a long time)	_	
Please ir Press Ok	isert the floppy, Usb key or CD-ROM that contains the IOL Master ex; < to continue	ported data	
Please s	pecify the date format for IOL Master: MM-DD-YYYY (12-25-1996 or	12/25/199	96)

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
Holladay IOL Ve View Ho	Consultant - C Io	arl Zeiss Me	ditec Training					
atient	Name:			ID:		DOB:		Gender:
Pablent Locator	Last Name:	JOE Calc	First Nar	Ne:	Back Calcula	Chart Number:	son	Show Example Patients
	Last Name		First Name	Ch	art Number	Gender	Date of Birth	Add New Patient
	Doctus Dugal Erika Firi Groh mouse Patient System Thomas		Denny Denny L3 Prank Rachel ninnie Test Test Dan				01-36-1943 10-460-1943 10-460-1943 11-460-1943 11-460-1943 11-36-1955 27-469-1940 17-36-2000 10-460-1943 10-460-1943 02-36-1960	Import Patient(s) from IOL Master or Lenster Edit. Publert Delete Patient
	Dute		00		0	5		Defete Exem
					De .			
Main Menu	Help	04			Esp	ort Patient List	Print Patient List.	Prey PreCp>

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		<ul> <li>Last name</li> <li>Date of birth</li> </ul>	<ul> <li>First name</li> <li>Examination</li> </ul>	e 🔽 ID on date	number
Measured valu	es	<ul> <li>Axial length (option</li> <li>Individual measure</li> <li>Composite val</li> <li>Anterior chamber</li> </ul>	cal) isurements ue : depth	Keratometry     Mean value     List of meas      White to white	e surements
			R	Current valu	ie surements
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:

Se Ves 15	łų.								
atient_	Name 1	10		DOB 1	9	enter III			
Patient Locator	Pielog Exem 105, Calc	Surgery Deta   8	PostOp faam   Beck	Caluation   SPC	Calculation				
	Last Name:	PestName		Outliater:		Shew Example Patents			
	Last Name	Pastiane	Owthele	Gender	Date of Brits	Add law Patient			
	Astal.angth	Extreme	1544	84	13-045-1522				
	13.	Photo	1144		13-00-1970	Interest Reductivi Rom			
	Nanochithalines	have	LUAA	54	13-015-1886	303, Master or Lensite			
	Patant	formal	LIAA		13-0x5-5924				
	Papelin	1	LUAR		13-0:5-1946	Test Present			
	Pseudopholic	Progra	114A		13-0x1-1928				
	SHETH	ALICE	1100		12460-1915				
	1940TH	AUCE	1.070		30-lan-1914	Dalata Pytiers			
	SMETH	ALLEN	1100	M	07-May-1920				
	194ETH	ANCSE.	1.098	*	67-Apr-0536		X		
	194CTH	ANETA	1100		13-Dec-1912				
	BRTH .	ANN	1100		17-Aug-1928				
	1942714	AMMANDO	1.000	54	25-341-2922				
	DRUH				18-Feb-1808				
	188			8		Felicite Taster			
								6.7 T	
									Import Patient(s) from
									anihar an actor of a hour
									TOL Machan on Longhan
	and and		172	and the second se	Barris Barrier and	and and and			TOL Master of Lenstar
Main Heres	- Marine - Out		6.e	ertPalertial	Pres Patient Lot	an inga	2		TOL Master or Lenstar
Nar. Neru	- mp - Drt		6.e	ortPalentLal	Prec Palent Let	an Magina Pangipanak			TOL Master or Lenstar

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
TUL Master \\\\oimTU34UT4\Export\ULMasterExportData.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:

Type	Location		Add IOL Maste
IUL Master	\\loim1U34U14\Export\IULMasterExportData.MDB		Add Lenstar
			Remove
mport All Ex	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	🕑 🛄•	
My Recent Documents Desktop My Documents My Computer	Blackberry CD Label Ten CD Label Ten CD Label Ten CD UMsster_CC My weBooks My Pictures My Pictures My Videos Webshots De	nplates :onvert ata				
•	File name:				~	Open
My Network	L					



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:	Open

Double click on Microsoft Windows Network:

Open						? 🔀
Look in:	Sentire Netw	vork	~	0 0	12	
My Recent Documents	Microsoft Ter Microsoft Wil Netware Ser Web Client N	rminal Services ndows Network vices letwork				
My Documents						
My Computer						
S Ny Network	File name:				~	Open



Double Click on Zeiss\_workgroup:

Open							? 🗙
Look in:	🕙 Microsoft W	indows Network	~	00	P	<b>-</b>	
My Recent Documents	Clinical Czmi Cznet Dell4200 Eegroup Eng Fin Gx115	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	<b>~</b> C	1 🕫 🖻	
My Recent Documents	Dennys Lapto	p (Czm-ddugal)			
Desktop					
My Documents					
My Computer					
Nu Naturati	File name:			~	Open
Places	Files of type:	IOL Master Export Database	(*.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	2 🛛
Look in:	😨 I		3 <b>-</b>
My Recent Documents	Io Io	Connecting to Iolm801936	
		User name:	
Desktop		Password:	
<b>(</b>		Remember my password	
My Documents		OK Cancel	
<b>9</b>			
My Computer			
My Network	File na	me:	Upen
Places	Files o	f type: IOL Master Export Database (*.mdb)	Cancel

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

Connect to iolm	1801936 🔹 👔 🔀
	GA
Connecting to Ioln	n801936
User name:	🖸 IOLMaster 🖌
Password:	[
	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 ? 🔀
	G
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	: 🧕 lolm801936	;	<b>~</b> ()	🏂 🗈 🛄-	
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	~	G 🕫 📂 🖽	•
My Recent Documents	TOLMasterE>	(portData.MDB			
Desktop					
My Documents					
My Computer					
My Network	File name:			~	Open
Places	Files of type:	IOL Master Export	Database (*.mdb)	~	Cancel



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

		Add IOL Maste
IOL Master	\\lolm1034014\Export\IDLMasterExportData.MDB	
IUL Master	Violiniou 1936 / Export Violi Master: xport/ata.mbb	Add Lenstar
		Remove
moort All Ex	ams (This may take a long time)	
11 Master Data		
DL Master Data	from Floppy, Usb key or CD-ROM	

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 Violm1034014VExportVIDLMasterExportData MDB	Add IOL Master
IOL Master	Volm801936/Export/IOLMasterExportData MDB	Add Lenstar
		Remove
Import AII Ex AII EX AI	kams taken the last 7 days  ams taken the last 3 days  ams taken the last 7 days  ams taken the last 7 days  ams taken the last 15 days  ams taken the last 30 days  ams taken the last 30 days  ams taken the last 30 days  ams taken the last 10 days  ams	



### Click on **OK**:

IOL Master	Location	Add IOL Master.
IOL Master	Volm US4014 Export/UDLMasterExportData.MDB Volm801936\Export/UDLMasterExportData.MDB	Add Lenstar
		Remove
Import All Ex	ams (1 his may take a long time)	
OL Master Data	from Floppy, Usb key or CD-ROM	
Please insert th Press OK to co	e floppy, Usb key or CD-ROM that contains the IOL Master exported data. htinue	

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:

	Manual	10		000		Conder
•	Name.	U,		DOB		Gender.
locator	PreOp Exam 10L	Calc Surgery Data Post	Op Exam Back Ca	kulation SIRC Calcula	stion	
	Last Name:	First Name:		Chart Number:		Show Example Patients
	Last Name	First Name	Chart Number	Gender	Date of Birth	Add New Patient
	IONECK	DEVICE	101		01-Jan-1911	
	Doofus	Denny			18-Nov-1943	1
	Dugal	Denny			18-Nov-1943	Import Pabent(s) from
	EIRA	13			11-Nov-1911	the master or Lenster
	(internet)	Prank.			11-Jul-1955	
	Gron	Rachel			27-R0g-1980	Edt Patient
	Ratiant	Test			17-381-2000	
	System	Test			18-Nov-1943	
	Thomas	Dan			02-3.4-1968	Delete Patient
	Date	00		05		Delete Line
			N			
			14			
-			0			
	Help	Out		Export Patient List	Print Patient List	-KPTBV



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.

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