



**RSMATA  
UNDAAN**

**RUMAH SAKIT MATA UNDAAN SURABAYA  
PERMINTAAN BARANG MEDIS NON RUTIN**

UNIT : Rawat Jala

TANGGAL : 7 April 2022

NO	NAMA BARANG	MEREK	NO. KATALOG	JUMLAH	PERKIRAAN HARGA	KONDISI BARANG LAMA
1	slit lamp	Takagi		2	300.000.000	1. slit lamp poli sudah rusak 2. slit lamp utk penggantian alat dr. PT
<p>Note : Harga Lama sampai dengan 31 des 2022 Rp 248.000.000 (sewa penawaran resmi no. 0305 /STM -OPT /X1/21)</p>						
		<i>[Signature]</i> 16/04 22				

Menyetujui  
Ka. Unit ..... *[Signature]* .....

Mengetahui,  
Ka. Wadir Yan Medik

Pemohon

Ka. Ins Farmasi

*[Signature]*  
( *[Signature]* )

*[Signature]*  
( dr. Aditya Bagus. D.M. Kes )

*[Signature]*  
( Intan Kusumawati )


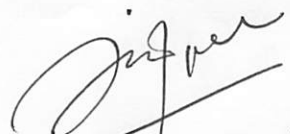


**RS MATA  
UNDAAN**

No. :

Jl. Undaan Kulon No. 17 - 19 Surabaya  
Telp. 031 5343806 , 5319619, Fax. 031 5317503

**FORM PERMINTAAN PERBAIKAN / PEMELIHARAAN KURATIF**

<p>Nama / Pelapor : Koko Perawat</p> <p>Unit &amp; No. Extension : Rawat Jalan</p> <p>Tanggal / Jam : 13 April 22, 12.05</p>	<p>Paraf Pemohon</p> 
<p>Mohon perbaikan/pengecekan : Slitlamp takagi pada ruang 8 di poli GMS mengalami masalah saat pemakaian, tiba-tiba mati dan bisa nyala sendiri</p>	
<p>Teknisi Pelaksana</p> <p>Nama Teknisi : Aqiri</p> <p>Tanggal / Jam : 16/4/22 08.00</p> <p>Kesimpulan / Hasil Kerja : Semengak laporan masuk, Saat slit lamp masih dalam perbaikan menunggu beberapa hari lagi untuk memperbaiki sehingga mengganggu pelayanan, Saran Perlu slitlamp cadangan</p> <p style="text-align: right;">#</p> <p style="text-align: right;">*Diisi Oleh Teknisi</p>	<p>Mengetahui Unit Kerja / Instalasi telah selesai dikerjakan</p> <p>Tanggal / Jam :</p> <p>Ttd &amp; Nama Terang :</p> <p style="text-align: center;"></p> <p style="text-align: center;">Siti Taely Rochmas</p> <p># tidak ada backup butuh cito</p>

Putih : IPRS Merah : Unit Kerja / Instalasi Kuning : Lampiran untuk pengajuan spare part



**PT. SURYA TAMA MEDIKA**  
MEDICAL HOSPITAL SUPPLY • REPAIR AND SERVICE

Nomor : 0305/STM-OPT/XI/2021  
Perihal : Penawaran Khusus Rs Mata Undaan ( Pembelian Tahun 2022 )

Kepada Yth. :

**Direktur Rs. Mata Undaan**

Jl. Undaan Kulon No.19, Peneleh, Kec. Genteng, Kota SBY, Jawa Timur 60274.

Dengan hormat,

Kami PT. Surya Tama Medika bermaksud mengajukan penawaran harga untuk alat-alat kedokteran Poli Mata sebagai berikut :

No	Nama Alat	Type	Merk	Price List
1	LED Slit Lamp Microscope with TD 10 Digital Camera System	700 GL + TD 10	Takagi-Seiko, Japan	Rp. 425.370.000,-

**Note :-** *Special Discount untuk pengambilan Maksimal 4 Unit dengan Harga yang sama atau tetap ( harga 2021 ) Menjadi Rp. 248.000.000,-*  
- *Pelaksanaan pembelian dilakukan tahun 2022 dengan pengiriman sekaligus 4 unit atau tidak dengan jangka waktu pengiriman 4 unit s/d 31 Desember 2022*

**Syarat & Ketentuan :**

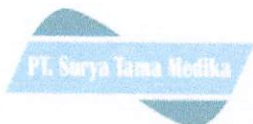
- Surat PO dikeluarkan tahun 2021 untuk mengikat harga lama
- Penawaran ini berlaku selama 30 hari kerja, lebih dari itu mohon konfirmasi kembali kepada kami;
- Harga tidak terikat dan sewaktu-waktu dapat berubah tanpa pemberitahuan terlebih dahulu;
- **Harga sudah termasuk PPN 10%;**
- **Harga sudah termasuk ongkos kirim, instalasi, training alat;**
- Garansi 1 tahun yang bukan disebabkan oleh kesalahan pemakai;
- Cara pembayaran : Uang muka 50%, Sisa Pembayaran dibayarkan setelah barang diterima.

Spesifikasi terlampir

Demikian surat penawaran ini kami sampaikan sebagai bahan pertimbangan Bapak/Ibu. Atas perhatiannya kami ucapkan terima kasih.

Bekasi, 24 November 2021

Hormat kami,



**Rossi**  
08165415819



**Spesifikasi Alat :**

**1. LED Slit lamp Microscope 700GL With TD-10 Digital Camera System**

**Type** : 700 GL + TD10

**Brand** : Takagi Seiko, Japan

**Features :**

**1. Innovative Design without a cable**

- Innovative Design : No cables are exposed. Even power supply cable is concealed .
- Discontinuance of the power supply cable from the chinrest to the lamp house.
- Power of the conventional slit lamps was supplied from the chin rest to the lamp housing. 700GL looks neat and compact with minimized cable with no possible failure.
- Even cables for connecting an imaging system can be concealed. . Renewed product Color

**2. LED**

**LED Optimized New Slit Lamp**

- The best advantage of the LED light source is that the affected parts which used to be difficult to be seen with the conventional light sources can be more clearly seen.
- Our LED slit lamp is not a type of exchanging the halogen unit, but a completely new model that adopts a dedicated LED light source.
- The LED optimized slit lamp provides brighter and sharper light. Use of Uniform LED Illumination
- The LED slit lamp with a color temperature of 3500 K provides brighter and sharper light than halogen.
- A 1-element high-luminance LED is used for the slit lamp. It provides uniform and even light compared to the 4 element LEDs. Reduction of the Characteristic Blue Light of LED
- The projected light is soft and easy on patients' eyes by reducing the peak of the characteristic blue band spectrum of LED

**3. Optical Design**

Expert in both observations of the anterior and posterior segments of the eye

- Working toward improvement of visibility during fundus observation and realization of anterior segment observation comparable to conventional devices as critical factors, the world's foremost brightness and sharp optical design is realized.
- 700GL's binocular tubes with a 6-degree convergence provide easy binocular fusion, ensuring stress-free observation.

**4. Use of Uniform LED Illumination**

- The LED slit lamp with a color temperature of 3500 K provides brighter and sharper light than halogen.
- A 1-element high-luminance LED is used for the slit lamp. It provides uniform and even light compared to the 4 element LEDs



**5. Reduction of the Characteristic Blue Light of LED**

- The projected light is soft and easy on patients' eyes by reducing the peak of the characteristic blue band spectrum of LED.

**6. Extended Slit Length**

- The diameter of the slit length is extended to 14mm from 10mm. This allows 700GL to illuminate a wider area of the anterior segment.
- This allows 700GL to maximize its characteristics such as a wider field of view.

**Microscope**

Type	Galilean converging binocular stereomicroscope
Magnification changer	Five position rotating drum
Eyepieces	16x wide-field, high-eyepoint
Total magnifications	6.3x, 10x, 16x, 25x, 40x
Real fields of view	φ35.9, φ23.3, φ14, φ8.8, φ5.5mm
Interpupillary adjustment	52 - 82mm
Diopter adjustment range	+/-7diopters
Longitudinal (coarse) movement	105mm

**Cross-Slide Base**

Horizontal (fine) movement	15mm
Vertical movement	30mm

**Chinrest Unit**

Elevation stroke	85mm
Slit width	0-14mm continuously variable

**Illumination Unit**

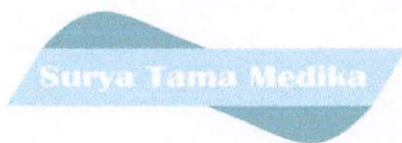
Aperture diaphragms	φ14, φ10, φ5, φ3, φ2, φ1, φ0.2mm
Filters	Blue filter, Red free filter, Blue correction filter, Yellow filter
Light Source	LED
Input voltage	AC100V - 240V (+/- 10%)

**Power Unit**

Maximum power consumption	DC5V 2A
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**Fixation Light Unit**

Fixation light source	Red LED
Weight	13.3 kg



## **With CCTV / Imaging System**

Type : TD 10  
Merk : Takagi Seiko, Japan

### **Use of Ultra High Resolution 10.7 Mega Pixel Camera**

Use of Ultra High Resolution 10.7 Mega Pixel Camera with 3856 x 2764 picture size, delivering 7.4 times higher-resolution compared to the previous digital camera of TD-1plus.

### **USB 3.0 Connection Interface**

By changing to the new USB 3.0 interface, data transfer speed is now approximately 6.4 times faster than that of the previous IEEE1394b fire-wire interface. Stress-free high-resolution live images are made possible.

### **User Friendly Software with DICOM Compatibility**

User friendly software with patient database, full image editing facility, and DICOM compatibility.

#### **1. Neat Digital Imaging System with hidden cables**

In combination with our LED slit lamps minimum cables for TD-10 are exposed as they can be quickly and neatly concealed in the slit lamp's arm..

#### **2. Yellow Filter Built in as Standard**

High-contrast images are easily obtained by using the built-in yellow filter for corneal fluorescein observation. In conjunction with our slit lamps cobalt blue filter even higher-contrast images can be achieved.

#### **3. Capturing of Still Images with One Push**

In combination with our supplied trigger cable, still images can be captured instantly and conveniently by pressing the joystick button of the slit lamp. Captured images can be displayed as thumbnail images in the lower part of the screen for evaluation.

#### **4. New EyeCAM Main Screen Design**

The conventional image filing software & patient database have been further upgraded for more ease of use and intuitive handling by reviewing each icon while maintaining the convenient functionality.

#### **5. Easy Capture with Six Pre-stored Eye Settings**

Setting of the digital camera can be changed and saved easily with six types of scene files according to the eye condition and image type required. Use our presaved recommended settings or simply adjust each pre-set to your own desired level for very fast and convenient high quality image acquisition.

#### **6. Convenient Comparison Functions for Follow-up**

Observations

Newly captured images and images taken in past examinations can be displayed on the same screen. Up to six images can be displayed and compared at once.

#### **7. Combination with background illumination system**

In combination with our background illumination device, a more comprehensive explanation is made possible to the patient.

\* Back ground illumination built in as standard with 700GL and 4ZL models



**8. Slitlamp models compatible with TD-10 types**

Type GZL : 700GL, 2ZL, 4ZL  
Type XL : 300XL

**Camera specifications**

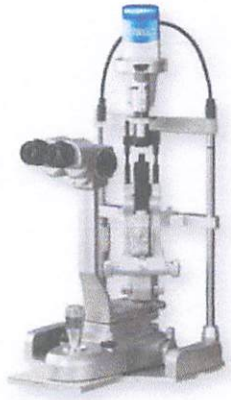
Picture size : 3856×2764  
Resolution depth : 12bit  
Digital interface : USB 3.0  
Frame Rate : 7.3fps  
Electricity Consumption : 4.5W以下

**System Requirements**

OS : Windows 7 & 8, 64bit (All Editions)  
RAM : 4GB or more recommended  
Interface : USB 3.0  
CPU : Intel i5 or superior CPU recommended

**Consist of :**

- 1 Unit Slit Lamp
- 1 Unit Electric Table
- 1 Unit Digital Imaging System ( TD10)
- 1 Unit PC All In One



# Slitlamp Microscope 700GL 700GL NSW

S e r v i n g   y o u r   v i s i o n





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## Design

### Innovative Design without a cable

- Innovative Design: No cables are exposed. Even the power supply cable is concealed.
- Conventional power cable from the chinrest to the light housing has been eliminated – now neatly concealed inside the slit lamp body.
- 700GL looks neat and compact with no exposed cables, giving a sleek look with an innovative design.
- Even cables for connecting an imaging system can be concealed.
- New product color.
- Background illumination also discreetly built in with no exposed cables.



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## Usability and Ergonomics Tailored for You

### Improvement of Usability

The size, placement and other features of various controls are reconsidered based on ergonomics in order to enhance usability

### Built-in Background Illumination

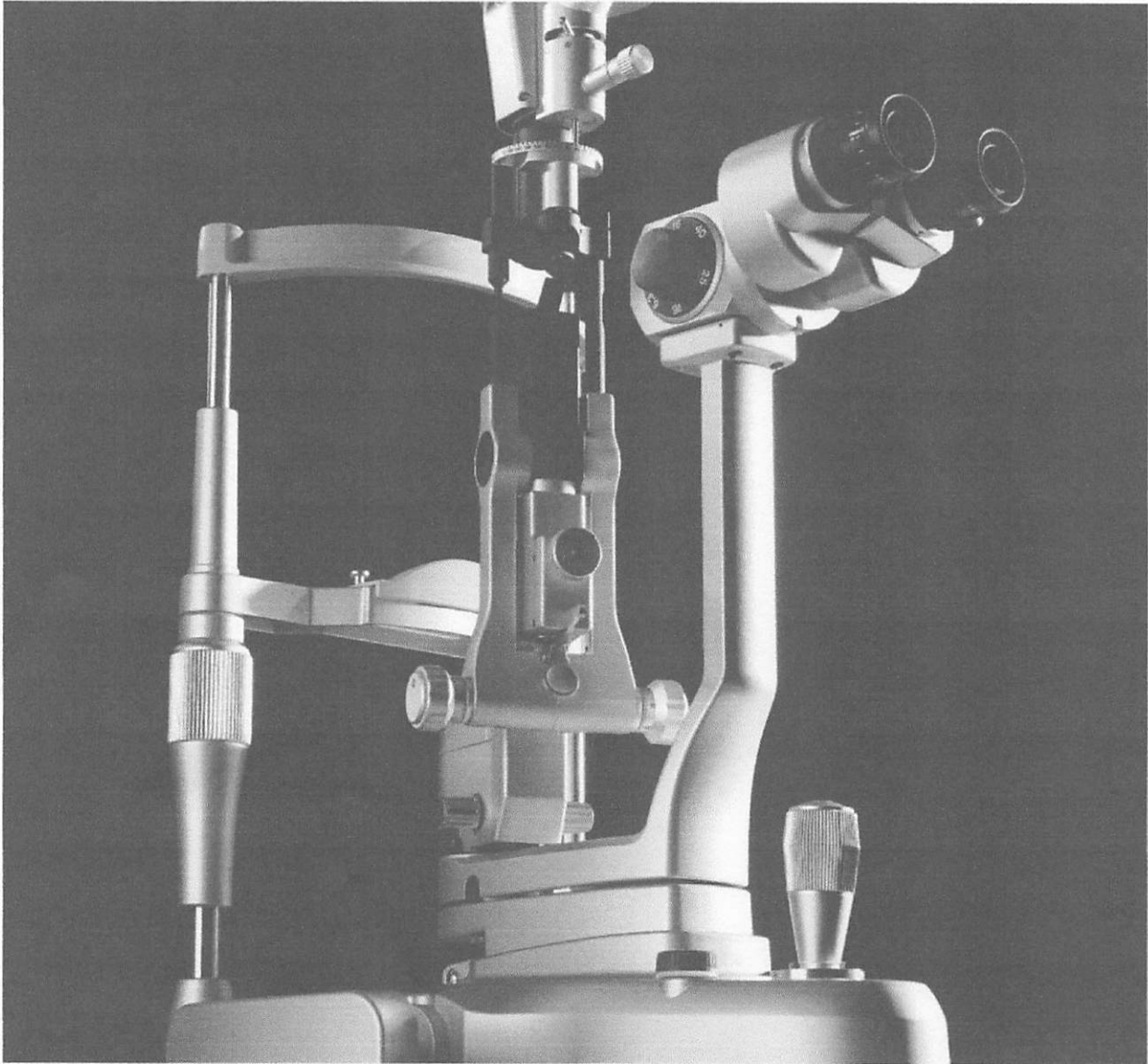
- For use with an imaging system, the background illumination is now equipped as standard.
- The color balance of an image taken through 700GL is not lost because the same LED is used for both main light source and background illumination.
- Intensity of the background illumination is adjustable by hand using the lower left hand side control.



Slitlamp Microscope

700GL

Slit lamp with a feeling of being “visible”



Our relentless pursuit of “visualizing” and our latest evolutionary slit lamp. Slit lamps cannot provide medical treatment, but we cannot talk about ophthalmology without slit lamps.

*This slit lamp is the number one performer behind the scenes.*

# LED

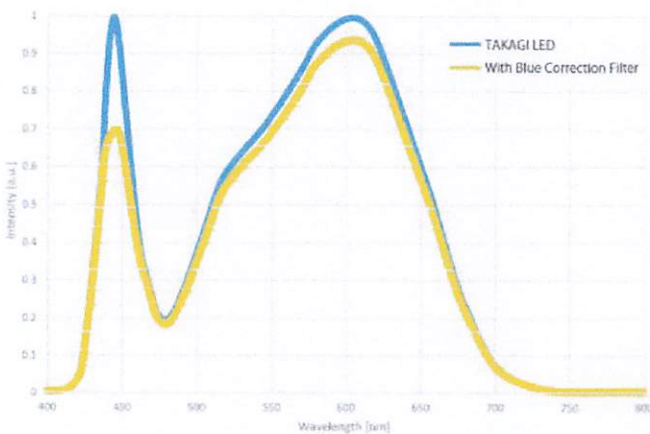


## New LED Optimized Slit Lamp

- One of the best advantages of LED illumination is that affected anatomy and structures of the eye can now be more clearly and visibly seen.
- We haven't simply replaced the halogen light source with an LED type, 700GL has been designed and engineered from scratch to accommodate the new superior LED lamp.
- LED optimized 700GL provides brighter and sharper light.

## Reduction of the Characteristic Blue Light of LED

- The projected light is soft and easy on patients' eyes by reducing the peak of the characteristic blue band spectrum of LED.



## Use of Uniform LED Illumination

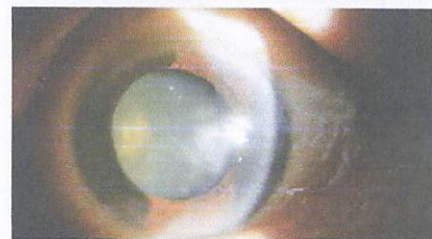
- The LED slit lamp with a color temperature of 3500K provides brighter and sharper light than halogen.
- A 1-element high-luminance LED is used for 700GL providing a uniform and even light compared to multiple element LED's.

## Use of Low Voltage LED

- Even though a low voltage LED is used for 700GL, the LED slit lamp is extremely economical while obtaining a very high level of illumination.



Bright and Sharp LED light source



With Blue Correction Filter



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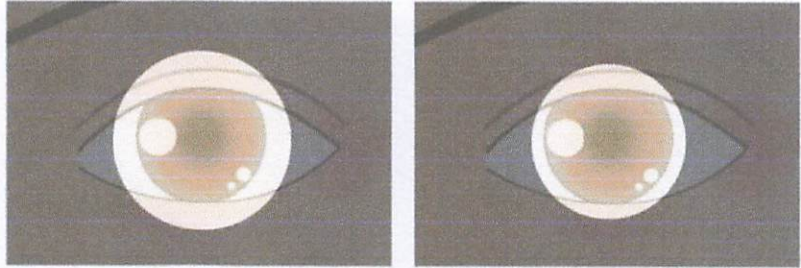
# Optical Design

## Clear Observation of both Anterior and Posterior Segments of the Eye

- As a result of our continuous pursuit in improving visibility of the fundus while simultaneously maintaining superior visibility of the anterior segment, the best, brightest and sharpest optical design of 700GL has been achieved.
- 700GL's binocular tubes with a 6-degree convergence provide easy binocular fusion ensuring a stress free observation.

## Extended Slit Length

- The diameter of the slit length is extended to 14mm from 10mm. This allows 700GL to illuminate a wider area of the anterior segment.
- This allows 700GL to maximize its characteristics such as a wider field of view.

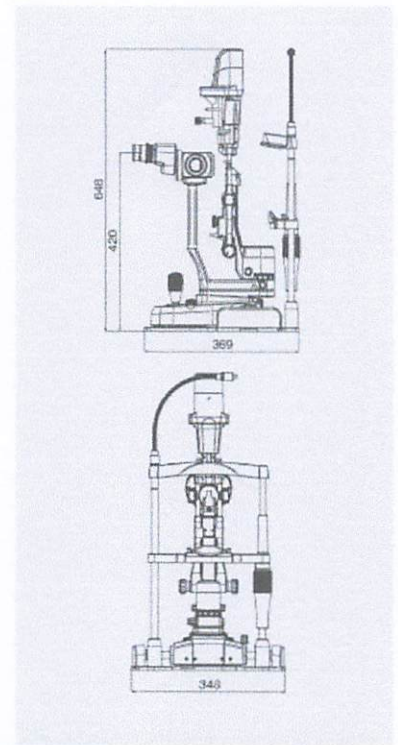




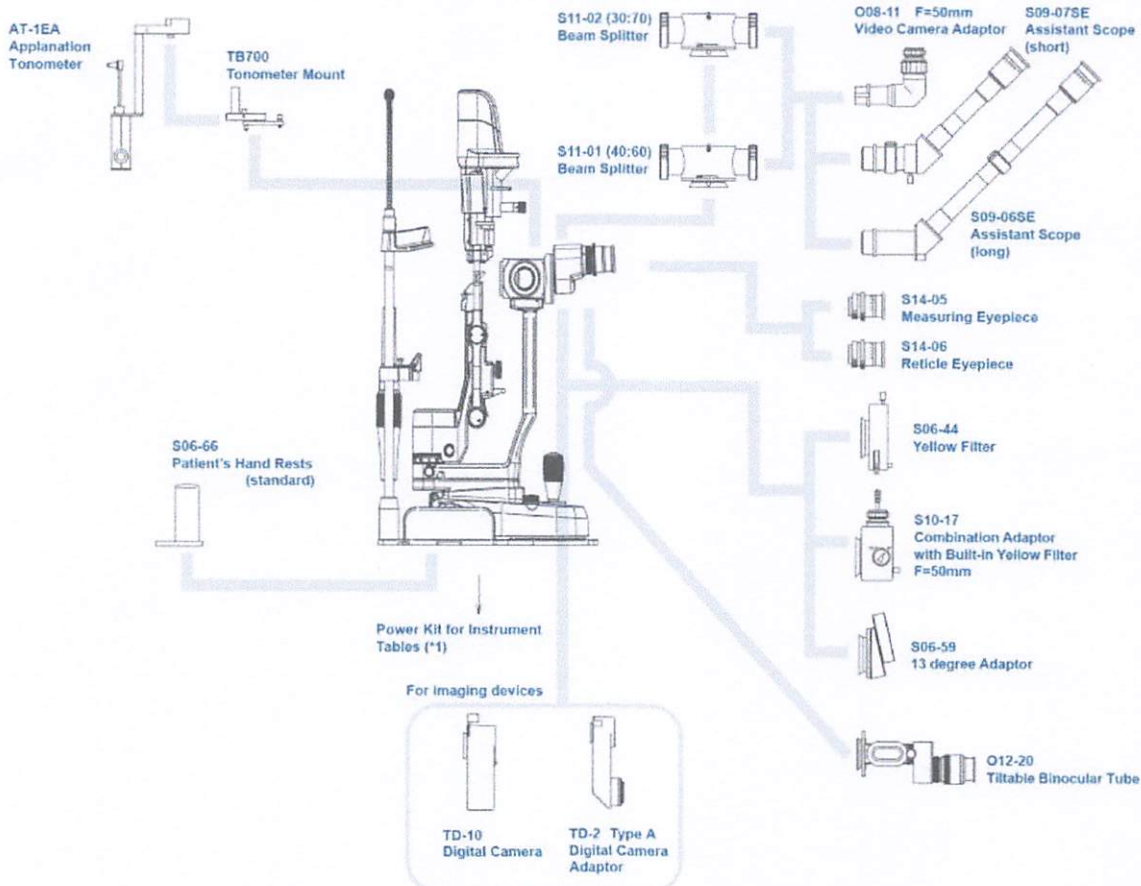
## Major Specifications

	Model	700GL	700GL NSW
<b>Microscope</b>	Type	Galilean converging binocular stereomicroscope	
	Magnification change	Five-position rotating drum	
	Eyepieces	16x wide-field, high-eyepoint	12.5x wide-field, high-eyepoint
	Total magnification	6.3x, 10x, 16x, 25x, 40x	6x, 9x, 15x, 24x, 37x
	Real field of view (diameter)	35.9mm, 23.3mm, 14mm, 8.8mm, 5.5mm	37.8mm, 25.2mm, 15.1mm, 9.5mm, 6.0mm
	Convergence viewing angle	10°	12° Prism-OUT, 4.1° Prism-IN
	Eyepiece convergence	6°	6°
	Objective lens configuration	Two lens achromatic	Three lens apochromatic
	Interpupillary adjustment	52 - 82mm	
	Diopter adjustment range	+/- 7 diopters	+/- 5 diopters
<b>Base Unit</b>	Horizontal (coarse) movement	105mm	
	Horizontal (fine) movement	15mm	
	Vertical movement	30mm	
<b>Chinrest Unit</b>	Elevation stroke	85mm	
	Slit width	0-14mm continuously variable	
<b>Illumination Unit</b>	Aperture diaphragm (diameter)	Φ14, Φ10, Φ5, Φ3, Φ2, Φ1, Φ0.2mm	
	Filters	Blue filter, Red free filter, Blue correction filter, Yellow filter	
	Light source	LED	
<b>Power Unit</b>	Power supply	AC100V - 240V (+/- 10%)	
	Power consumption	DC5V 2A	
<b>Fixation Light Unit</b>	Fixation light source	Red LED	
<b>Background Illumination</b>		Built-in	
<b>Weight</b>		12.5kg	13kg

## Dimensions



## Optional Components



\*1: For further information on power kits, contact our Sales Department.

● Design and specifications are subject to change as improvements are made to the product.

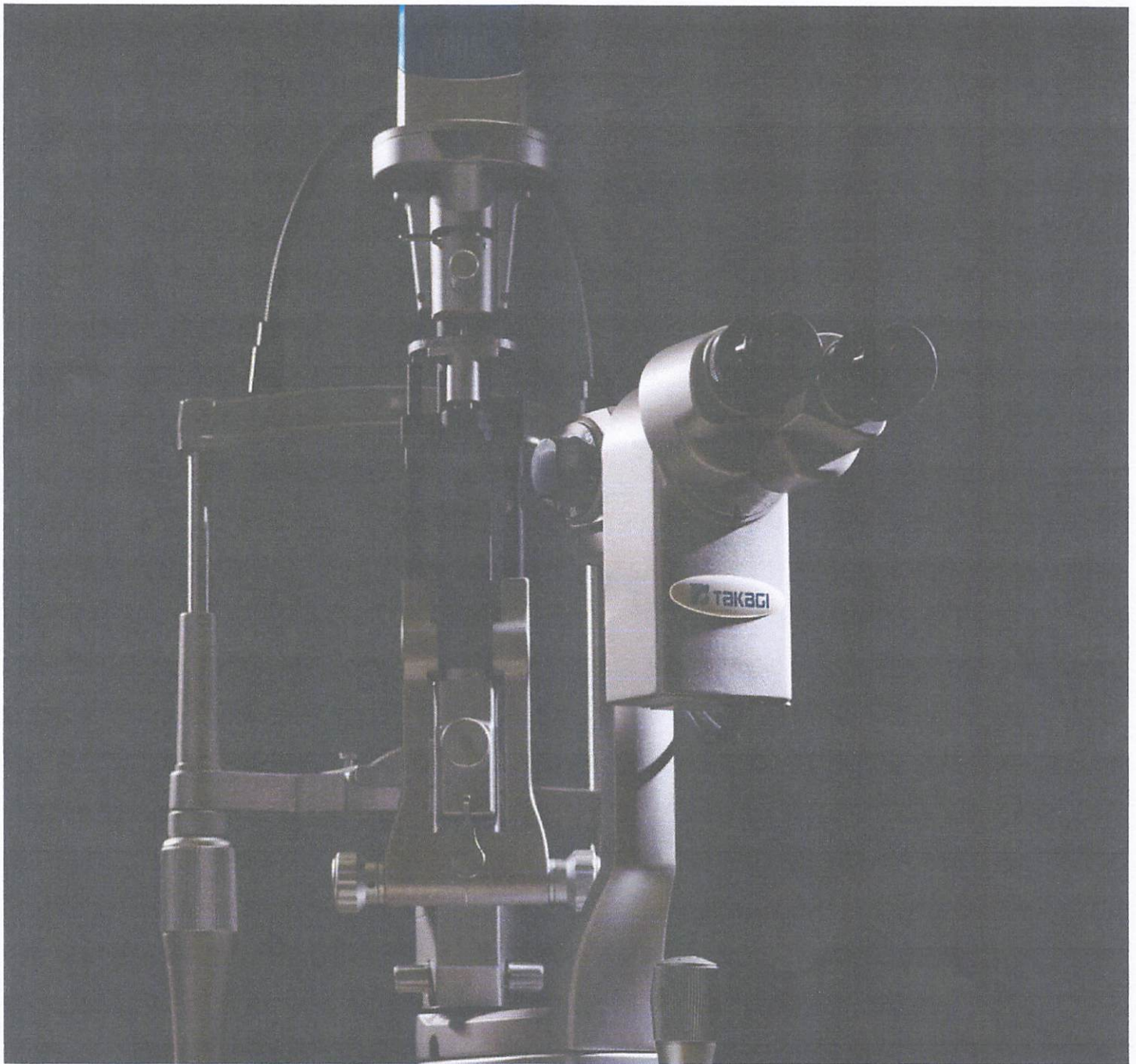




Digital Camera &  
Image Filing Software

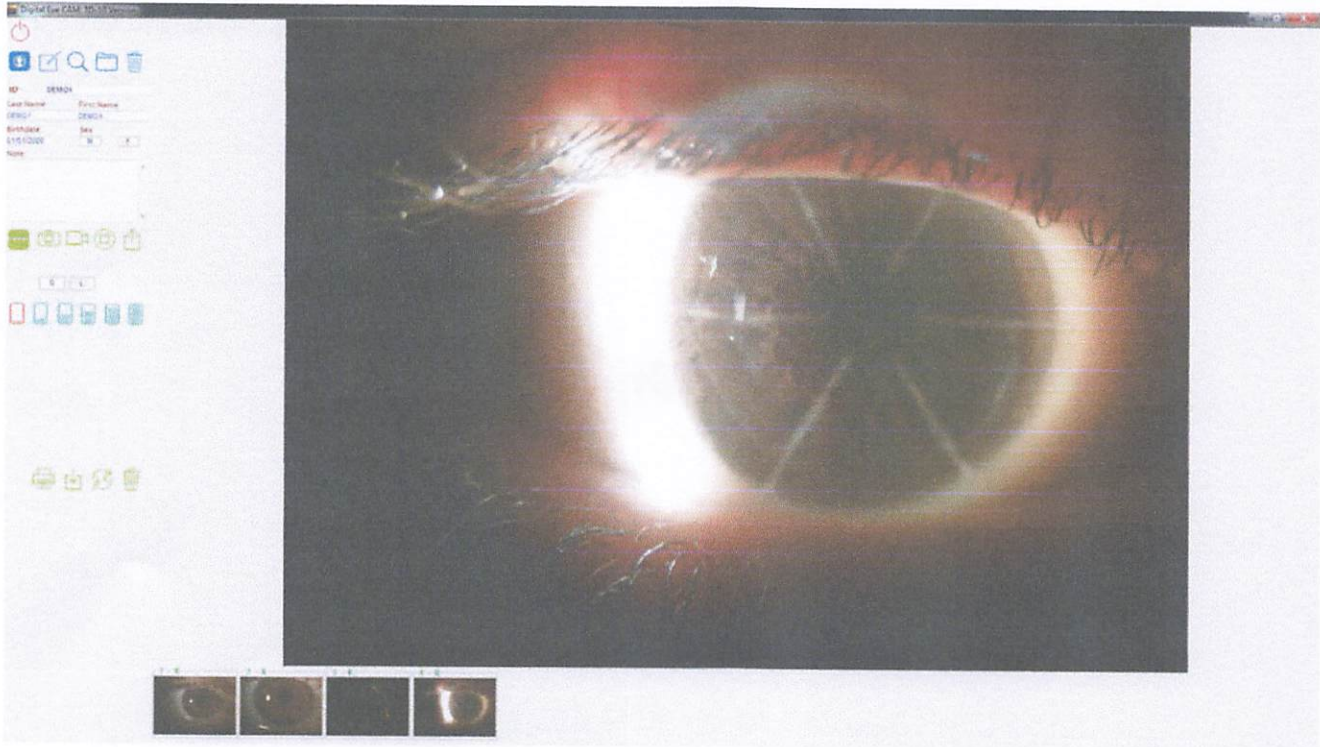
# TD-10 / EyeCAM

S e r v i n g   y o u r   v i s i o n



# Digital Camera & Image Filing Software TD-10 / EyeCAM

User-friendly ultra-high resolution digital imaging system with USB 3.0 connection and DICOM compatibility, realized with simple operation in combination with TD-10 digital camera and EyeCAM image & video filing software



The captured image is created by inlay.

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## Use of Ultra High Resolution 10.7 Mega Pixel Camera

Use of Ultra High Resolution 10.7 Mega Pixel Camera with 3856 x 2764 picture size, delivering 7.4 times higher-resolution compared to the previous digital camera of TD-1plus.

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## USB 3.0 Connection Interface

By changing to the new USB 3.0 interface, data transfer speed is now approximately 6.4 times faster than that of the previous IEEE1394b fire-wire interface. Stress-free high-resolution live images are made possible.

---

## User Friendly Software with DICOM Compatibility

User friendly software with patient database, full image editing facility, and DICOM compatibility.

1

### Neat Digital Imaging System with hidden cables

In combination with our LED slit lamps minimum cables for TD-10 are exposed as they can be quickly and neatly concealed in the slit lamp's arm.



2

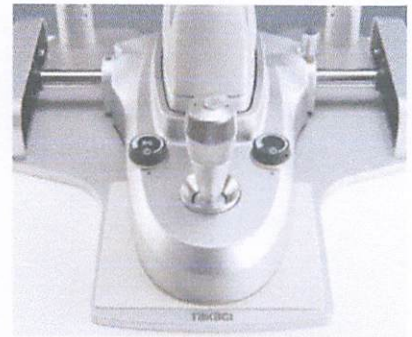
### Yellow Filter Built in as Standard

High-contrast images are easily obtained by using the built-in yellow filter for corneal fluorescein observation. In conjunction with our slit lamps cobalt blue filter even higher-contrast images can be achieved.

3

### Capturing of Still Images with One Push

In combination with our supplied trigger cable, still images can be captured instantly and conveniently by pressing the joystick button of the slit lamp. Captured images can be displayed as thumbnail images in the lower part of the screen for evaluation.



4

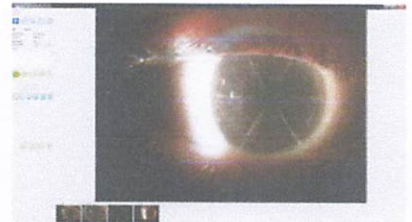
### New EyeCAM Main Screen Design

The conventional image filing software & patient database have been further upgraded for more ease of use and intuitive handling by reviewing each icon while maintaining the convenient functionality.

5

### Easy Capture with Six Pre-stored Eye Settings

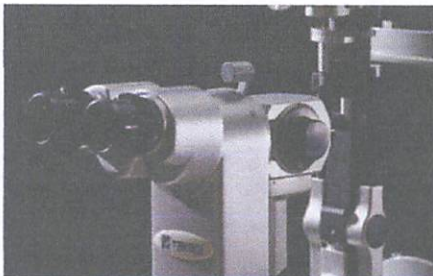
Setting of the digital camera can be changed and saved easily with six types of scene files according to the eye condition and image type required. Use our preserved recommended settings or simply adjust each pre-set to your own desired level for very fast and convenient high quality image acquisition.



6

### Convenient Comparison Functions for Follow-up Observations

Newly captured images and images taken in past examinations can be displayed on the same screen. Up to six images can be displayed and compared at once.







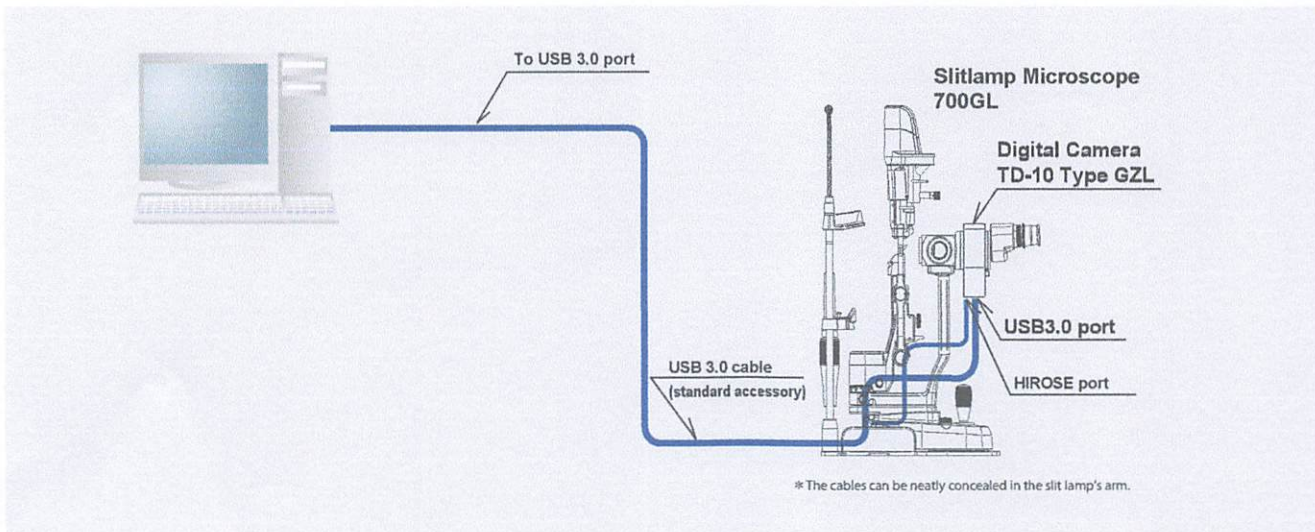
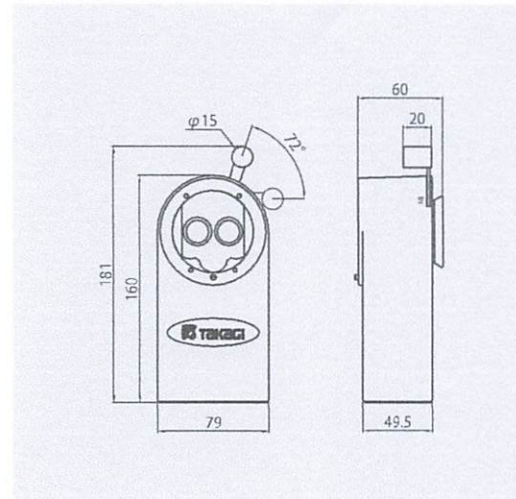
### Camera specifications

Picture size	3856 x 2764
Resolution depth	12 bit
Digital interface	USB 3.0
Frame Rate	28 fps
Electricity Consumption	Less than 4.5W

### System Requirements

OS	Windows 7 & 8, 64bit (All Editions)
RAM	4GB or more recommended
Interface	USB 3.0
CPU	Intel i5 or superior CPU recommended

### Dimensions



### Combination with background illumination system

In combination with our background illumination device, a more comprehensive explanation is made possible to the patient.

\* Back ground illumination built in as standard with 700GL and 4ZL models



### Slitlamp models compatible with TD-10 types

Compatible models	Type GZL	700GL, 2ZL, 4ZL
	Type XL	300XL

● Design and specifications are subject to change as improvements are made to the product.

