

New!

Planmeca ProSensor – sense the usability

The Planmeca ProSensor intraoral sensor is a unique combination of high-end patient-centred design, usability, and durability, ensuring smooth workflow and patient safety in all treatment situations. Intelligently designed sensor housing, revolutionary magnetic connector, robust and durable cable, LED light on the control box indicating the state of the sensor system, together with the cutting-edge technology guarantee success with every image.





Features and benefits

Sensor

- High-end CMOS technology with scintillator
- Three sensor sizes (S0, S1, S2)
- Physical pixel size 15 μm , theoretical resolution 33 lp/mm
- Binned pixel size 30 μm with true resolution over 16 lp/mm
- Proven high image quality
- Patient-centred design; rounded edges give extra comfort
- Intelligent design maximises active imaging area; ratio up to 70%
- Sensors are hermetically sealed and can be fully immersed in disinfectant

Sensor cable

- Includes only two wires and is strengthened with Kevlar
- Highly durable: the cable is proven indestructible by bending it more than 100 000 times
- The cable connections with sensor and with magnetic connector are highly durable

Magnetic connector

- Enables easy and convenient one-hand use
- Ensures that connector is always in right position
- The sensor size is marked on the connector with a symbol for easy identification



Control box

- Elegant design, small size
- All three sensors function with one control box
- Colour coded LED light with different light sequences gives instant feedback to user indicating the state of the system
- Possibility for USB version or Ethernet version
- USB version: power supply directly from computer's USB port
- USB version available with either 2 m or 5 m static USB-cable. The 2-meter cable can be extended with one 3-meter cable.
- Ethernet version: Power over Ethernet (PoE) injector for power supply (included with Ethernet control box delivery)
- Ethernet version gives freedom to place imaging stations in various places at the clinic in a similar way to normal LAN
- Maximum Ethernet cable length 100 m
- USB version can be extended over 5 m by using hub or switch



Planmeca Romexis software

- Supported by the Planmeca Romexis 2D clinical software
- Professional choice for capturing, viewing and processing 2D images
- With study templates the acquired images are automatically placed in right slots
- Multiple tools to enhance diagnosis and treatment planning
- Versatile functionalities for printing and reporting ensure that important information can be shared with partners and patients
- Fully compatible with the industry standard DICOM



Sensor holders

- Manufactured by Trollhätteplast
- Simple and easy to use, no need to assemble
- Colour coding indicates which holder is in use
- Distinguished design maximises the imaging area
- Fully autoclavable
- Quick to use, short learning curve
- Size-dedicated sensor holder Starter Kit is included with every Planmeca ProSensor set



Comparison: Planmeca ProSensor – Planmeca Dixi®3

Feature	Planmeca ProSensor	Planmeca Dixi®3
Sensor		
Sensor sizes available	3	2
Cut corners	Yes in S2	No
Rounded edges	Yes	Slightly
Sensor technology	CMOS	CCD
Physical pixel size	15 µm	19 µm
Binned pixel size	30 µm	38 µm
Theoretical resolution	33 lp/mm	26.3 lp/mm
True resolution	> 16 lp/mm	> 20 lp/mm
High image quality	Yes	Yes
Hermetically sealed housings	Yes	Yes
Sensor cable		
Wires inside the sensor cable	2	Over 10
Cable durability	High	Normal
Connections		
Durability of connections	High	Normal
Connector between sensor cable and control box	Magnetic	Traditional
Connector between sensor and control box adjusts itself to correct position	Yes	No
Sensor's cable connection enables free cable bending	Yes	Limited bending
Usability of the system		
RGB LED lights on the control box	Yes	No
One-hand sensor plugging and unplugging	Yes	Difficult
Sensor size marked on the connector	Yes	No
Shock resistant design	Enhanced	Normal
Mobility of the system	Easy, especially USB version	Difficult
Plug and play installation	Yes in USB	No
General		
Lifespan (in images)	> 400 000	400 000
One interface/control box	Yes	No
Integration with the Planmeca Intra X-ray unit	Yes	Yes
Dynamic range, gray scales	4096	4096
Compatibility with the Planmeca Dimaxis and Planmeca Romexis software	Yes	Yes
Interfaces	USB/Ethernet	USB/Ethernet/PCI

Using Planmeca ProSensor parallel with Planmeca Dixi®3

After installation, Planmeca ProSensor can be used with the existing Planmeca Dixi3 setup by changing the imaging sensor from Planmeca Dixi3 to Planmeca ProSensor in DidapiConfig. DidapiConfig starting from the version 4.5.4.0.R includes Planmeca ProSensor support.

Compatibility with Planmeca Dimaxis and Planmeca Romexis

Planmeca ProSensor is fully compatible with Planmeca Dimaxis and Planmeca Romexis. Planmeca Dimaxis and Planmeca Romexis users need to upgrade their Didapi for Planmeca ProSensor compatibility.

Delivery contents

Planmeca ProSensor is delivered with the Planmeca Romexis software including one workstation licence. The images below show examples of different Planmeca ProSensor delivery contents for Ethernet and USB version sets.



An example of Planmeca ProSensor set, Ethernet version

- | | | |
|---|--|-----------------------------------|
| 1. Packing list | 4. Planmeca ProSensor User's/
Installation manual | 7. Interconnection cable RJ45 |
| 2. Sensor holder package | 5. PoE with power cable | 8. Planmeca ProSensor control box |
| 3. Planmeca Romexis software
package | 6. Interconnection cable RJ45 | 9. Planmeca ProSensor with cable |
| | | 10. Sensor hanger |



An example of Planmeca ProSensor set, USB version

- | | | |
|---|--|-----------------------------------|
| 1. Planmeca Romexis software
package | 3. Planmeca ProSensor User's/
Installation manual | 5. Planmeca ProSensor control box |
| 2. Sensor holder package | 4. Sensor hanger | 6. Packing list |
| | | 7. Planmeca ProSensor with cable |

Marketing material

Planmeca ProSensor product brochure

10020077 English

10020078 German

10020079 French

10020080 Italy

Planmeca ProSensor keychains

10020385 Planmeca ProSensor keychain size 0

10020386 Planmeca ProSensor keychain size 1

10020387 Planmeca ProSensor keychain size 2

Planmeca ProSensor dummyset

10020642 Planmeca ProSensor dummyset

The Planmeca ProSensor dummyset includes:

- Controlbox with exhibition software (LED light show)
- Three dummy sensors, S0, S1, and S2, and sensor hangers
- PoE injector and one Ethernet cable in Ethernet version.

Planmeca ProSensor dummyset is especially suitable for exhibitions.

NOTE! Planmeca ProSensor dummyset is not suitable for image acquisition.

Planmeca ProSensor product presentations available at the Dealer Support site.

For more information, please contact Export Sales.

Order codes

Basic sets

FE001897 Planmeca ProSensor set with sensor size 0

FE001898 Planmeca ProSensor set with sensor size 1

FE001899 Planmeca ProSensor set with sensor size 2

One basic set includes:

- One sensor
- Control box (Ethernet or USB)
- Sensor holder set
- Sensor hanger
- Planmeca Romexis software and one workstation licence.

Accessories

Additional sensors

10017670 Planmeca ProSensor sensor, size 0, 0.9 m cable

10019069 Planmeca ProSensor sensor, size 0, 2.0 m cable

10017671 Planmeca ProSensor sensor, size 1, 0.9 m cable

10019070 Planmeca ProSensor sensor, size 1, 2.0 m cable

10017672 Planmeca ProSensor sensor, size 2, 0.9 m cable

10019071 Planmeca ProSensor sensor, size 2, 2.0 m cable

Additional control boxes

10019076 Planmeca ProSensor control box, USB version, 2 m cable

10020776 Planmeca ProSensor control box, USB version, 5 m cable

10019077 Planmeca ProSensor control box, Ethernet version

Sensor holders

10019737 Trollbyte Plus Starter Kit 0

10019738 Trollbyte Plus Starter Kit 1

10019739 Trollbyte Plus Starter Kit 2

Technical specifications, sensor

	Size 0	Size 1	Size 2
Sensor type	CMOS with scintillator	CMOS with scintillator	CMOS with scintillator
Scintillator material	CsI	CsI	CsI
Scintillator thickness	0.7 mm (0.028 in.)	0.7 mm (0.028 in.)	0.7 mm (0.028 in.)
Sensor size	33.6 x 23.4 mm (1.33 x 0.92 in.)	39.7 x 25.05 mm (1.56 x 0.99 in.)	44.1 x 30.4 mm (1.76 x 1.2 in.)
Active area	25.5 x 18.9 mm (1.0 x 0.74 in.)	31.5 x 20.7 mm (1.24 x 0.81 in.)	36 x 26.1 mm (1.42 x 1.03 in.)
Number of pixels	850 x 629	1050 x 690	1200 x 870
Physical pixel size	15 µm x 15 µm	15 µm x 15 µm	15 µm x 15 µm
Binned pixel size	30 µm x 30 µm	30 µm x 30 µm	30 µm x 30 µm
Theoretical resolution	33 lp/mm	33 lp/mm	33 lp/mm
Resolution	17 lp/mm	17 lp/mm	17 lp/mm
View delay	<5 sec.	<5 sec.	<5 sec.
Cable length	0.86 m (33.9 in.) or 2.0 m (78.7 in.)	0.86 m (33.9 in.) or 2.0 m (78.7 in.)	0.86 m (33.9 in.) or 2.0 m (78.7 in.)

Technical specifications, control box

	USB	Ethernet
Dimensions	112 x 46 x 24 mm (4.41 x 1.81 x 0.94 in.)	112 x 46 x 24 mm (4.41 x 1.81 x 0.94 in.)
Power Supply	5 V DC < 500 mA	48 V DC 65 mA
Cable length	From control box to computer fixed 2 or 5 m (78.7 or 196.9 in.)	From control box to PoE RJ45 max. 100 m
		From PoE to LAN RJ45 max. 100 m

Technical specifications, Power over Ethernet (PoE) power supply

Type	PSA16U-480 (POE)
Input voltage	100–240 VAC (50–60 Hz)
Output voltage	48VDC
Maximum output current	0.35 A
Insulation voltage primary-secondary	3000VDC

Computer requirements

	Planmeca Romexis client work station	Planmeca Romexis database server
Processor	1 GHz	2 GHz
RAM	1 GB	2 GB minimum
Hard disk space	40 GB or more	160 GB or more recommended
Graphics card	128 minimum memory	128 minimum memory
Monitor	1280 x 1024	1280 x 1024
Peripherals	CD-ROM drive	CD-ROM drive
Backup medium	None necessary	DAT or equivalent
Operating system	Windows XP, 2003, Vista, Mac OS X, Linux Mac OS / Linux support subject to contract	Windows XP Pro, Windows 2003 Server, Vista
Other	Java platform (Java Virtual Machine 1.6 or later)	Java platform (Java Virtual Machine 1.6 or later)

Availability & warranty

Planmeca ProSensor Ethernet version is available in May 2009.

Planmeca ProSensor USB version will be available at the end of June 2009.

2 year full warranty. Additional warranty programmes will be announced later.

For further information, please contact:

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Power on



Ready for exposure



Service mode



Error