

# HemoGenix®

*Changing the Paradigm*

2011

## Microscope Object Inserts and Frames.

# Catalog and Price List

Tissue culture, specialized microscope and imaging products made by PeCon and LaCon GmbH, Germany and distributed exclusively in the U.S.A. and Canada by HemoGenix® Inc

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# HemoGenix®, Inc

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To order by Fax using a credit card, please use: 1-719-264-6253.

To order by E-mail, please use: info@hemogenix.com.

To order by mail: HemoGenix®  
1485 Garden of the Gods Road, Suite 152  
Colorado Springs, CO 80907  
USA

### All orders must provide the following information:

- Shipping address
- Billing address
- Purchase order number (for credit cards, please see below)
- Catalog number and product description
- Quantity and size of product
- Purchaser's name, telephone number and e-mail address.
- If possible, please also provide the end user's name, telephone number and e-mail address, since HemoGenix® regularly performs quality control checks on their products and would like to ensure that the product is working correctly.

### Credit Card Orders.

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The following information is required for all credit card payments:

- Name of person ordering using a credit card
- Name on credit card

- Credit card address
- Credit card number
- Credit card expiration date
- Credit card security number.

### **PRICING and PAYMENT TERMS for ORDERS from the UNITED STATES**

- All prices are subject to change without notice. Unless a customer has filed a Business Application and agreed to the Terms and Conditions specified by HemoGenix® Inc, all orders must be prepaid by credit card or electronic payment.
- Many products in this Tissue Culture Catalog require Special Order. For orders totalling less than \$1,200.00, a special order shipping fee will be added to the cost of the products as well as additional fees for international taxes and duties. The customer will be advised of the cost of Special Order prior to placing the order with the supplier.
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- Customers who have filed a Business Credit Application with HemoGenix® and have failed to fulfill the terms of payment will have their credit downgraded and will be required to prepay all future products.
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- All international orders placed directly with HemoGenix® require pre-payment either by electronic fund transfer or credit card and all payments must be in US dollars.
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- For all international orders paid by wire transfer, a wire transfer fee of \$25.00 will be applied to the invoice.

### **Order Acknowledgement**

All orders will be confirmed by an Order Acknowledgement detailing the customer's information, products ordered, shipping, packaging and handling as well as any other Special Order costs associated with the order



that may be incurred on orders received internationally.

## Sales Tax

The customer is responsible for any and all applicable sales, use or similar tax and agrees to indemnify HemoGenix® for any such tax, if not properly paid by the customer. For universities, colleges, governmental institutions etc., a Tax Exempt Form is required upon the first order.

## Shipping (Domestic, within the contiguous United States)

Shipping, packaging and handling costs are prepaid and added to the invoice, unless shipping uses the customer's shipping account information. If products are back-ordered, shipping and handling costs will only be charged on the first shipment. Unless otherwise stated by the customer, HemoGenix® reserves the right to select the packaging and shipping method. Domestic orders will normally be shipped using the cheapest means available unless the items are specialized products, in which case they will be shipped by Federal Express and will include insurance, so that any damage during shipment is covered by the warranty in the Terms and Conditions.

The following handling fees apply to all orders (contiguous U.S., Alaska and Hawaii and international):

- For all orders up to \$149.99, a handling fee of \$30.00 will be added to the invoice.
- For all orders between \$150.00 and \$699.99, a handling fee of \$50.00 will be added to the invoice.
- For all orders greater than \$700.00 and for any kit size, a handling fee of \$80.00 will be added to the invoice.

All tissue culture and luminescence kits are shipped frozen and will require either cold packs or dry ice.

## Replacements, Changes and Cancellations

Changes to an order can be made providing the order has not shipped. Orders may be cancelled at no charge provided that HemoGenix received notice before the order is shipped. No changes and no returns will be accepted after the order has shipped. If an incorrect component has been shipped with an order, HemoGenix® will send the correct component free of all charges, providing the customer notifies HemoGenix® within 24 hours of receipt of the order.

## Limited Warranty

All products are intended for research purposes only. They are not intended for human use. The user is strongly recommended to read the Instruction Manual (if available) thoroughly prior to using any products. HemoGenix® will not take any responsibility for any tissue culture product that has not been used according to the enclosed Instruction Manual. If a tissue culture product is found to be unsatisfactory, it is recommended to call HemoGenix® immediately. HemoGenix® will contact the supplier. If the product is found to be defective, it will be replaced. HemoGenix® disclaims any and all responsibility for any injury or damage that may be caused by the failure of the buyer or any other person to use these products in accordance with the conditions stated in the manuals provided with the products.

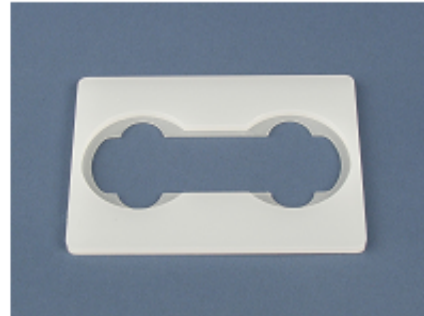
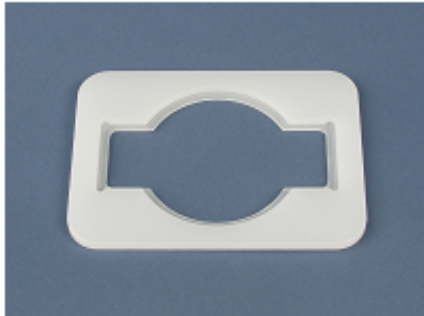
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# Object Holders

The Object Holder provides for sterile handling of Petri dishes and slides and protects the cell cultures from contamination. Two different versions are available.



## DESCRIPTION

- The Object Holder provides for a sterile handling of Petri dishes and slides and protects the cell cultures from contamination
- The cell culture dishes are inserted into the Object Holder and need not to be touched directly during transport, medium exchange, incubation etc.
- Available in 2 versions
- Sterilized at 121°C in the autoclave.

## COMPATIBILITY

- Object Holder A 1 x Petri dish 60 mm or 1 x object slide
- Object Holder B 2 x Petri dish 35 mm or 1 x object slide

## THE OBJECT HOLDER FITS INTO FOLLOWING UNIVERSAL MOUNTING FRAMES:

- Universal Mounting Frame M
- Universal Mounting Frame K

<b>Object Holders</b>				
<b>Catalog No.</b>	<b>Product</b>	<b>Size</b>	<b>Number</b>	<b>Price</b>
331.000	Object Holder for 60mm Petri Dish or 1 slide		1	\$45.00
332.000	Object Holder for 2 x 35mm Petri Dishes or 1 slide		1	\$45.00



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# **Universal Mounting Frames for Inverted and Upright Microscopes**

## SLIDE HOLDER quad

### DESCRIPTION

- The Slide Holder (quad) is for 4 slides as well as chambered slides. It provides for a horizontal handling of the slides when they are filled with a solution. The advantage lies in the way in which the slides can be inserted. It is not necessary to insert them in a tilted position with the danger of spilling some of the liquid.
- The slides are inserted into the holder and need not be handled directly during transport, medium exchange, incubation etc. (sterility).



### REQUIREMENTS

- Scanning stage or mechanical stage (opening 160 x 110 mm).

### COMPATIBILITY

- Cell cultivation vessels:
- Lab-Tek™ chambers (Nunc®)
- Chambered slides (BD Falcon™)
- μ-slides (Ibidi)
- Standard microscope slides with the dimensions of approx. 76 x 26 mm (3 x 1 inch).

## SLIDE HOLDER triple

### DESCRIPTION

- Similar to above, but for 3 slides as well as chambered slides.
- The slides are inserted into the holder and need not be handled directly during transport, medium exchange, incubation etc. (sterility).

### REQUIREMENTS

- Scanning stage or mechanical stage (opening 160 x 110 mm)

### COMPATIBILITY

Cell culture vessels:

- Lab-Tek™ chambers (Nunc®)
- Chambered slides (BD Falcon™)
- μ-slides (Ibidi)
- Standard microscope slides with the dimensions of approx. 76 x 26 mm (3 x 1 inch)



## UNIVERSAL MOUNTING FRAME AK

### DESCRIPTION

- Flexible Mounting Frame with easy installation for use with various cell culture vessels on the Scanning Stage 100×100 and on mechanical and motorized stages with an opening of 160×116 mm on upright microscopes.
- Two moveable, smooth-running bridges with a variable clamping range allows for easy and quick use. The frame can be levelled in the stage by 4 screws.



### REQUIREMENTS

Upright microscope with Scanning Stage 100×100 or mechanical and motorized stages (opening 160×116 mm)

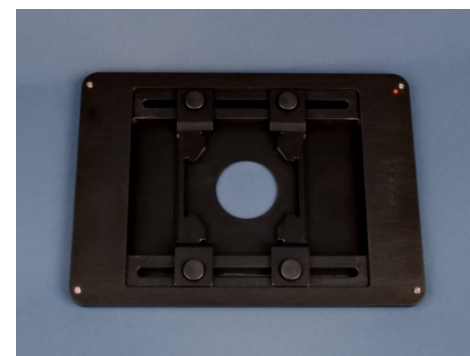
### COMPATIBILITY

- Cell culture vessels:
- Petri dish 24 – 68 mm
- POC + POC R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides (max. length 120 mm)

## UNIVERSAL MOUNTING FRAME AK SET (for upright microscopes)

### DESCRIPTION

- Flexible Mounting Frame with easy installation for use with different cell culture systems on scanning or mechanical stages.
- 3 exchangeable baseplates for Petri dishes "35" and "60", POC-Systems, object slides, Lab-Tek™ chambers, Ibidi chambers and others.
- Two moveable, smooth-running bridges with a variable clamping range allows easy and quick use.



### REQUIREMENTS

Scanning Stage from Märzhäuser, Ludl, Prior and other with a cut-out of 160×116

### COMPATIBILITY

- CO<sub>2</sub>-Cover AK-Set
- Cell culture vessels:
- Petri dish 24 – 68 mm
- POC-Systems
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Ibidi chambers
- Microscope slides (max. length 120 mm)

## UNIVERSAL MOUNTING FRAME HA

### DESCRIPTION

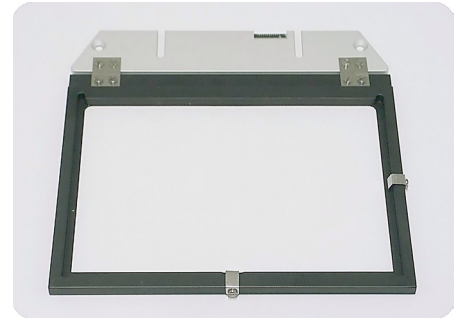
- A flexible device with an object guide on upright microscopes for use with many different multiwell plates, large Petri dishes, Heating Frame and the Heating & Cooling Frame.
- The mounting frame is available for different plates.

### REQUIREMENTS

- Upright microscope with object guide

### COMPATIBILITY

- Cell culture vessels (observation limited by the moving range of the stage!)
- Multiwell plates: X: 125 – 133 mm Y: 82 – 88 mm
- Petri dish: 87 – 92 mm
- Heating Frame: Petri dishes (35mm and 60mm, POC, POC-R2 + POCmini 2 Set
- Heating & Cooling Frame: Petri dishes (35mm and 60mm), POC, POC-R2 + POCmini 2 Set



## UNIVERSAL MOUNTING FRAME K

### DESCRIPTION

- A flexible device for a mechanical or scanning stage for use with various culture vessels.
- Two moveable, smooth-running bridges with a variable clamping range allows easy and quick use. The frame can be levelled in the stage by 4 screws.
- Also suitable for Prior stages.

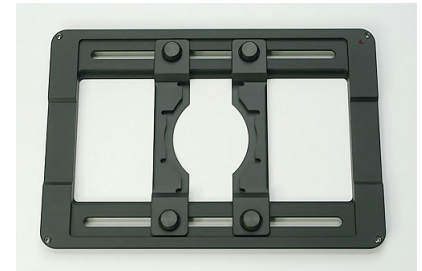
### REQUIREMENTS

- Inverse microscope with mechanical or scanning stage (opening 160x110 mm)

### COMPATIBILITY

Cell culture vessels:

- Petri dish 24 – 68 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides (max. length 120 mm)

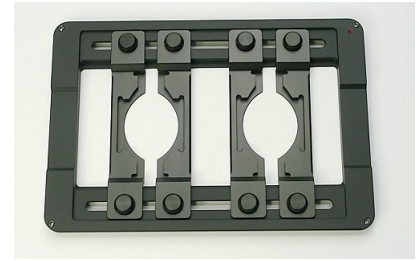




## UNIVERSAL MOUNTING FRAME K Duo

### DESCRIPTION

- A flexible device for a mechanical or scanning stage to simultaneously use two culture vessels. This enables the microscope-controlled transfer of selected cells from a Petri dish to a slide.
- Four moveable, smooth-running bridges with a variable clamping range allows easy and quick use. The frame can be levelled in the stage by 4 screws.
- Also suitable for Prior stages.



### REQUIREMENTS

Inverse microscope with mechanical stage or scanning stage (opening 160x110 mm)

### COMPATIBILITY

Cell culture vessels:

- Petri dish 24 – 68 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides (max. length 120 mm)
- 

The following combinations are possible:

- 2 Petri dishes: Ø max. 56 mm
- 1 Slide / 1 Petri dish: 25 x 75 mm / Ø max. 40 mm

## UNIVERSAL MOUNTING FRAME KM

### DESCRIPTION

- A special frame for microscopes with a mechanical or scanning stage to use with different multiwell plates (with or without glass bottom).
- Adjustable spring clips allow an adaption to several multiwell sizes. The frame can be levelled in the stage by 4 screws.
- This frame is especially suited to control the temperature and the CO<sub>2</sub>-concentration in combination with a large incubator and the CO<sub>2</sub>-Cover HM.



### REQUIREMENTS

- Inverse microscope with mechanical stage or scanning stage (opening 160x110 mm) and one of our large incubators
- CO<sub>2</sub>-Cover:
- CO<sub>2</sub>-Cover HM

### COMPATIBILITY

Cell culture vessels:

- Multiwell plates (with or without glass bottom) e.g. Greiner Bio-One Sensoplate™ or BD Falcon™ Glass-Bottom Imaging Plate

## UNIVERSAL MOUNTING FRAME KP Set

### DESCRIPTION

- Mounting Frame Set consisting of a flexible device with easy installation for use of various culture vessels on mechanical and scanning stages and 4 exchangeable plates for object slices, Petri dishes, Ibidi chambers and Terasaki plates.
- Specifically developed for CO<sub>2</sub>-gassing together with a CO<sub>2</sub>-Cover because the plates, adjusted to the cell culture vessel, prevent the gas/air-mixture from escaping.
- Two moveable, smooth-running bridges with a variable clamping range allows for easy and quick use. The frame can be levelled in the stage by 4 screws.
- Also suitable for Prior stages.



### REQUIREMENTS

- Inverse microscope with mechanical stage or scanning stage (opening 160×110 mm)

### COMPATIBILITY

- Cell culture vessels:
- Petri dish 24 – 68 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Ibidi chambers and Terasaki plates
- Microscope slides (max. length 120 mm)

## UNIVERSAL MOUNTING FRAME LQ

### DESCRIPTION

- A flexible device for the 3-plate X/Y stage (mechanical/motorized) for use with many different culture vessels.
- Two movable, smooth-running bridges with a variable clamping range allows for easy and quick use. The frame can be levelled in the stage by 4 screws.



### REQUIREMENTS

Inverse microscope with 3-plate X/Y stage (mechanical/motorized)

### COMPATIBILITY

- Cell culture vessels:
- Petri dish 24 – 68 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides (max. length 120 mm)

## UNIVERSAL MOUNTING FRAME KS

### DESCRIPTION

- A flexible device for a mechanical or scanning stage to use various culture vessels. The frame is especially suited for use with object holders. They can be inserted into a slot at the inside of the frame. The springs inside the slot securely hold the slide in position.
- Two moveable, smooth-running bridges with a variable clamping range allows for easy and quick use of various other culture vessels. The frame can be levelled in the stage by 4 screws.
- The frame is also suitable for Prior stages.



### REQUIREMENTS

- Inverse microscope with mechanical stage or scanning stage (opening 160×110 mm)

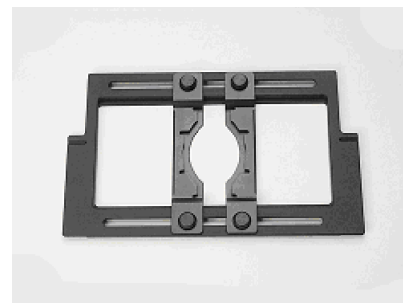
### COMPATIBILITY

- Cell culture vessels:
- Standard slides or chambered slides
- Petri dish 24 – 68 mm
- POC-R + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides (max. length 120 mm)

## UNIVERSAL MOUNTING FRAME M

### DESCRIPTION

- A flexible device for a fixed stage with object guides to use with many different culture vessels.
- Two smooth running, moveable bridges with a variable clamping range allows for easy and quick use.



### REQUIREMENTS

Inverse microscope with fixed stage and an object guide by Zeiss or Leica

### COMPATIBILITY

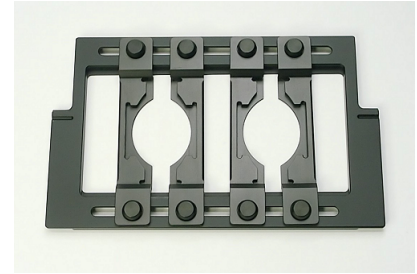
- Cell culture vessels:
- Petri dish 24 – 68 mm
- POC-R + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides (max. length 120 mm)

-

## UNIVERSAL MOUNTING FRAME M Duo

Same as the Universal Mounting Frame M, but with the following possible combinations:

- 2 Petri dishes: Ø max. 56 mm
- 1 Slide/1 Petri dish: 25 x 75 mm / Ø max. 40 mm



## UNIVERSAL MOUNTING FRAME LQ-X

### DESCRIPTION

- A flexible device for the 3-plate X/Y stage (mechanical/motorized) for use with many different multiwell plates, large Petri dishes, the Heating Frame and the Heating & Cooling Frame.
- Two lateral, smooth-running clamps with a variable clamping range allows easy and quick use. The frame can be levelled in the stage by 4 screws.
- Due to the limited moving range of the 3-Plate X/Y Stage, not all wells of the multiwell plate can be observed. This frame is primarily fitted for use with the Heating and Cooling Insert X.



### REQUIREMENTS

- Inverse microscope with 3-plate X/Y stage (mechanical/motorized)

### COMPATIBILITY

Cell cultivation vessels (observation limited by the moving range of the stage!):

- Multiwell plates: X: 125 – 133 mm, Y: 82 – 88 mm
- Petri dish: 87 – 92 mm
- Heating Frame: Petri dishes ("35mm and "60mm), POC, POC-R 2+ POCmini 2 Set
- Heating & Cooling Frame: Petri dishes ("35mm and "60mm), POC, POC-R2 + POCmini 2 Set

## UNIVERSAL MOUNTING FRAME MX

### DESCRIPTION

- A flexible device for a fixed stage with an object guide for use with many different multiwell plates and large Petri dishes.
- Two lateral, smooth-running clamps with a variable clamping range allows for easy and quick use.



### REQUIREMENTS

Inverse microscope with fixed stage and an object guide by Zeiss or Leica

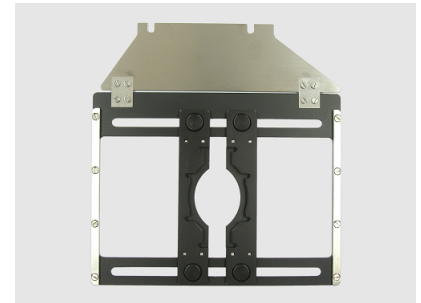
### COMPATIBILITY

- Cell culture vessels:
- Multiwell plates X: 125 – 133 mm
- Y: 82 – 88 mm
- Petri dish Ø 87 – 92 mm

## UNIVERSAL MOUNTING FRAME P

### DESCRIPTION

- A flexible device for upright microscopes with object guides for use with many different culture vessels.
- Two movable, smooth-running bridges with a variable clamping range allows for easy and quick use.



### REQUIREMENTS

- Upright microscope (Zeiss Axioplan, Axiophot, Axio Examiner) with fixed stage and object guide.

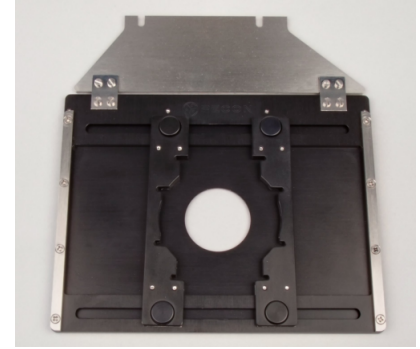
### COMPATIBILITY

- Cell culture vessels:
- Petri dish 24 – 68 mm
  - POC + POC-R2 Cell Cultivation System
  - POCmini 2 Cell Cultivation System
  - Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
  - Microscope slides (max. length 120 mm)

## UNIVERSAL MOUNTING FRAME P-SET for upright microscopes

### DESCRIPTION

- Flexible Mounting Frame with easy installation for use with different cell culture vessels in combination with the Object Guide on upright microscopes.
- Two exchangeable base plates for Petri dishes “35” and “60” as well as for POC-Systems.
- Two moveable, smooth-running bridges with a variable clamping range allows for easy and quick use.



### REQUIREMENTS

- Upright microscope with Scanning Stage 100×100 or mechanical and motorized stages (opening 160×116 mm)

### COMPATIBILITY

- CO<sub>2</sub>-Cover P-Set

Cell culture vessels:

- Petri dish 24 – 68 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System

## Universal Mounting Frames

<b>Catalog No.</b>	<b>Product</b>	<b>Number</b>	<b>Price</b>
010-800.067	Slide Holder Quad	1	\$1,595.00
010-800.035	Slide Holder Triple	1	\$1,355.00
322.000	Universal Mounting Frame AK	1	\$1,235.00
010-800.165	Universal Mounting Frame AK-Set	1	\$1,230.00
511.100	Universal Mounting Frame HA	1	\$775.00
311.200	Universal Mounting Frame K	1	\$1,015.00
316.100	Universal Mounting Frame K Duo	1	\$1,315.00
325.000	Universal Mounting Frame KM	1	\$1,215.00
311.400	Universal Mounting Frame KP-Set	1	\$1,955.00
320.000	Universal Mounting Frame LQ	1	\$1,045.00
010-800-103	Universal Mounting Frame KS	1	\$1,095.00
310.000	Universal Mounting Frame M	1	\$1,015.00
315.000	Universal Mounting Frame M Duo	1	\$1,315.00
324.000	Universal Mounting Frame LQ-X	1	\$1,250.00
313.000	Universal Mounting Frame MX	1	\$1,015.00
312.100	Universal Mounting Frame P	1	\$1,950.00
010-800.181	Universal Mounting Frame P-Set	1	\$1,210.00
311.100	Universal Mounting Frame KN for Lab-Tek chambers	1	\$1,015.00

PLEASE ALSO SEE SECTION ON CO<sub>2</sub> COVERS AND INSERTS



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# **Heated Universal Mounting Frames for Inverted and Upright Microscopes**

## HEATED UNIVERSAL MOUNTING FRAME K SERIES

### DESCRIPTION

- Flexible Mounting Frame with easy installation for heating of various cell culture vessels on the scanning stage or the mechanical stage.

KH: Circular (Ø 30 mm) and rectangular (30 x 10 mm) observation area.

KH-L: Rectangular (47 x 21 mm) observation area, especially for the LabTek™-chambers (Nunc), chambered slides (Falcon) and normal slides.

KH-R: Circular (Ø 30 mm) observation area, especially for Petri dishes (60 and 35).

- The objects can be clamped and moved on the heated aluminium base plate by two freely shiftable clamping bridges.
- The base plate (aluminium – printed board) is directly heated from below.
- For electric power supply and regulation particularly with the use of high resolution objectives, an analog Tempcontrol-unit (e.g. Tempcontrol 37) is recommended.
- When using the frame together with the CO<sub>2</sub>-Cover KH for CO<sub>2</sub>-incubation or CO<sub>2</sub>-Cover Micromanipulation K inside large incubators, the unused opening has to be covered with tape to prevent the loss of CO<sub>2</sub>.
- Cost efficient solution for specimen heating.

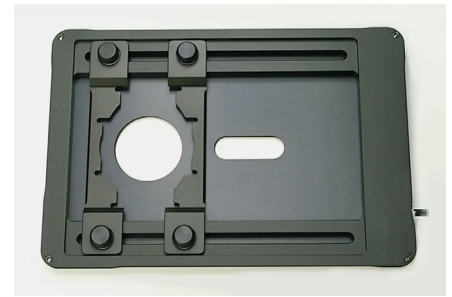
### REQUIREMENTS

- Tempcontrol 37-2 digital, or
- Tempcontrol 37 (1-channel)

### COMPATIBILITY

- Inverse microscope with mechanical or scanning stage
- Cell culture vessels:
- Petri dish 60mm
  - Petri dish 35mm
  - POC + POC-R2 Cell Culture System
  - POCmini 2 Cell Culture System
  - Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
  - Microscope slides

KH



KH-L



KH-R



## HEATED UNIVERSAL MOUNTING FRAME M SERIES

### DESCRIPTION

- Flexible Mounting Frame with easy installation for heating different objects on the fixed stage and the object guide.

MH: Circular (Ø 30 mm) and rectangular (10 x 30 mm) observation area, especially for Petri dishes (60 and 35).

MH-L: Rectangular observation area (47 x 21 mm), especially for the Lab-Tek™ TM-chambers (Nunc), chambered slides (Falcon) and normal slides.

MH-R: Circular observation area (Ø 30 mm), especially for Petri dishes (60 and 35).

- The base plate (aluminium – printed board) is directly heated from below.
- For electric power supply and regulation particularly with the use of high resolution objectives, an analog Tempcontrol-unit (e.g. Tempcontrol 37) is recommended.
- When using the frame together with the CO<sub>2</sub>-Cover MH for CO<sub>2</sub>-incubation inside a large incubator, the unused opening has to be covered with tape to prevent the loss of CO<sub>2</sub>.
- Cost efficient solution for specimen heating.

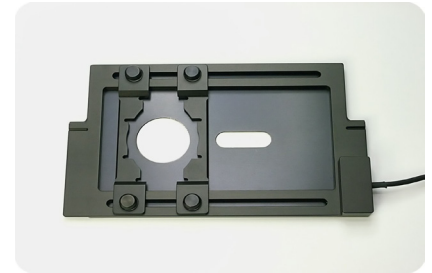
### REQUIREMENTS

- Tempcontrol 37-2 digital, or
- Tempcontrol 37 (1-channel)

### COMPATIBILITY

- Inverse microscope with object guide
- Cell culture vessels:
- Petri dish 60mm
  - Petri dish 35mm
  - POC-R + POC-R2 Cell Culture System
  - POCmini Cell Culture System
  - Lab-Tek™ (Nunc®) and Chambered slides (BD Falcon™)
  - Microscope slides

MH



MH-L



MH-R



## Universal Mounting Frames

<b>Catalog No.</b>	<b>Product</b>	<b>Number</b>	<b>Price</b>
319.000	Heated Universal Mounting Frame KH	1	\$2,375.00
319.S02	Heated Universal Mounting Frame KH-L	1	\$2,375.00
319.S03	Heated Universal Mounting Frame KH-R	1	\$2,375.00
317.000	Heated Universal Mounting Frame MH	1	\$2,375.00
317.S02	Heated Universal Mounting Frame MH-L	1	\$2,375.00
317.S03	Heated Universal Mounting Frame MH-R	1	\$2,375.00

Please note that other Heated Universal Mounting Frames are available for Zeiss Axioplan and Axiophot as well as Leica DM microscopes. Please call HemoGenix for further assistance with these products.

PLEASE ALSO SEE SECTION ON CO<sub>2</sub> COVERS AND INSERTS

# Unheated Inserts for Inverted and Upright Microscopes

## UNHEATED INSERT N AND N Lab-Tek™

### DESCRIPTION

- Non-heated lightweight insert (aluminum) specifically for scanning stages with limited payload (min. 250 g).
- Solid construction, therefore suitable for laser scanning microscopy (LSM).
- The oval observation area has a diameter of 32 x 30 mm and can be closed with a coverslip.
- The POC cell culture system, Petri dishes (35mm and 60mm) chamber-slides (Falcon) and the LabTec-chamber (Nunc) can be used for cell culture. An adapter ring with Allen screws accommodates different 35mm Petri dishes. Two openings on the left and right side allow for perfusion.
- The level in the scanning stage can be adjusted by four leveling screws.
- Cell incubation is possible in combination with the CO<sub>2</sub>-Cover HP and the CO<sub>2</sub> Controller inside a large incubator which are supplied with warm air.

### REQUIREMENTS

none

### COMPATIBILITY

- Inverse microscope with mechanical stage or scanning stage
- Cell culture vessels
- Petri dish 60mm
- Petri dish 35mm (with supplied adapter)
- POC-R2 cell culture system
- POCmini 2 cell culture system
- Insert N Lab-Tek™ specifically designed for Lab-Tek™ Chambers

Insert N



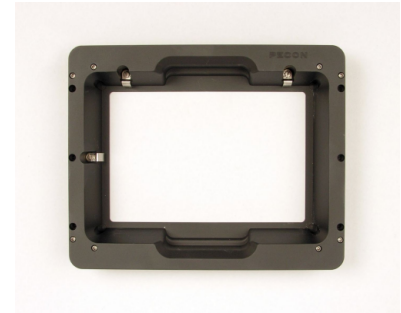
Insert N Lab-Tek™



## UNHEATED INSERT AM

### DESCRIPTION

- Non-heated insert especially suited for ASI-Stages.
- Solid construction, therefore especially suited for laser scanning microscopy (LSM).
- The rectangular observation area has the measures 120 x 180 mm.
- The Insert AM can be used in combination with multiwell plates or the Insert LP-Set.
- Cell incubation is possible in combination with the CO<sub>2</sub>-Cover LM and the CO<sub>2</sub> Controller or CO<sub>2</sub> Module inside a large Incubator (e.g. Incubator XL-Examiner Z1), which is supplied with warm air.



### REQUIREMENTS

none

### COMPATIBILITY

- Insert LP-Set
- Universal Mounting Frame AK
- Heatable Universal Mounting Frame AK
- CO<sub>2</sub>-Cover LM

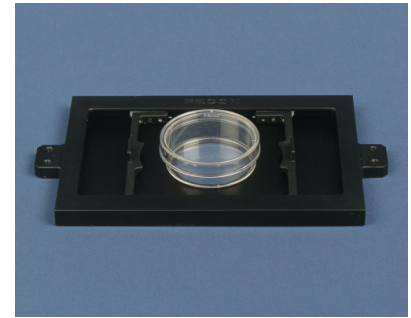
### CELL CULTURE VESSELS

- Heating Insert M06 : multiwell plates of all manufacturers can be used
- Heating Insert M12 : multiwell plates of all manufacturers can be used
- Heating Insert M24 : multiwell plates of all manufacturers can be used
- Heating Insert M96 : multiwell plates of all manufacturers can be used

## UNHEATED INSERT JP

### DESCRIPTION

- Insert Set consisting of a flexible device with easy installation for use of various culture vessels on the Z-stage and 4 exchangeable plates for Petri dishes, POC Cell Culture Systems, object slides, Lab-Tek™ and Ibidi chambers.
- Two moveable, smooth-running brackets with a variable clamping range allows for easy and quick use. The frame can be levelled in the stage by 4 screws.
- For CO<sub>2</sub>-control, the CO<sub>2</sub>-Covers JP are an ideal enhancement.
- The weight of the Insert JP in combination with the CO<sub>2</sub>-Cover JP is only 150 g.



### REQUIREMENTS

none

### COMPATIBILITY

- Inverse microscopes with Z-stage

### CELL CULTURE VESSELS:

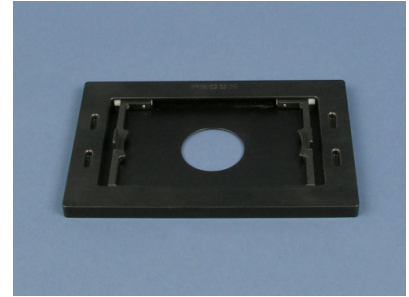
- Petri dish 35 mm
- Petri dish 60 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Microscope slides (max. length 120 mm)
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Ibidi® chambers



## UNHEATED INSERT LP

### DESCRIPTION

- Insert Set consisting of a flexible device with easy installation for the fixation of various culture vessels on the Piezo Z-Stage and 4 exchangeable plates for Petri dishes, POC Cell Culture Systems, object slides, Lab-Tek and Ibidi chambers.
- Two moveable, smooth-running brackets with a variable clamping range allows for easy and quick use. The frame can be levelled in the stage by 4 screws.
- For CO<sub>2</sub>-control, the CO<sub>2</sub>-Covers LP are an ideal enhancement.



### REQUIREMENTS

none

### COMPATIBILITY

- Inverse microscopes with Piezo Z-Stage (Ludl)

### CELL CULTURE VESSELS:

- Petri dish 35 mm
- Petri dish 60 mm
- POC + POC-R2 Cell Culture System
- POCmini 2 Cell Culture System
- Microscope slides (max. length 120 mm)
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Ibidi® chambers

## UNHEATED INSERT PP

### DESCRIPTION

- Insert Set consisting of a flexible device with easy installation for use with various culture vessels on the Piezo Z-Stage and 3 exchangeable plates for Petri dishes, object slides, Lab-Tek™ and Ibidi chambers.
- Two moveable, smooth-running brackets with a variable clamping range allows quick and easy use. The frame can be levelled in the stage by 4 screws.
- For CO<sub>2</sub>-control, the CO<sub>2</sub>-Covers PP (transparent or black) are an ideal enhancement.



### COMPATIBILITY

- Inverse microscopes with Piezo Z-Stage (Ludl)

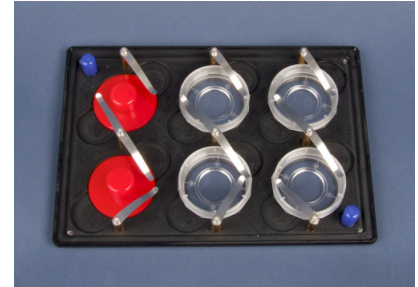
### CELL CULTURE VESSELS:

- Petri dish 35 mm
- Microscope slides (max. length 120 mm)
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Ibidi® chambers

## UNHEATED INSERT for 6, 35mm PETRI DISHES (clampable)

### DESCRIPTION

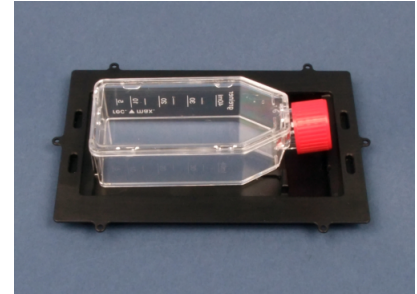
- Insert made of black acrylic glass for 6 Petri dishes (35 mm) which can additionally be fixed with pressure springs. This provides for a firm fit of the cell cultivation vessels.
- Particularly suitable for Petri dishes with glass bottom and the use of oil immersion objectives.
- Petri dishes (35 mm) of the following manufacturers can be used: Zell-Kontakt, Greiner Bio-One, Ibidi, Matek et al.
- The insert fits into scanning stages and xy-stages with a cut-out of 160 x 110 mm.
- The insert can be held at the blue pins and inserted into the microscope stage or lifted out of it, respectively.
- When working with a CO<sub>2</sub>, a specific CO<sub>2</sub>-Cover is necessary. Unused openings in which there is no Petri dish during the observation, have to be covered. For this purpose, red covers (6 pcs.) are included.



## INSERT GL-SET

### DESCRIPTION

- Insert made of eloxadized aluminium with 5 different base plates for use with various cell culture vessels:
    - plate for tissue culture flasks
    - plate for Petri dishes Ø 30 mm
    - plate for Petri dishes Ø 60 mm
    - plate for Ibidi chambers
    - plate for Lab-Tek™ chambers
  - The 4 base plates for Petri dishes, Ibidi and Lab-Tek™ chambers are mounted with 2 identical bridge clamps. The base plate for the tissue culture flasks is mounted with just one specific bridge clamp.
  - The insert fits into the Galvo Stage (Leica) #1531144502 / #1531144501.
  - When working with a CO<sub>2</sub>, the CO<sub>2</sub>-Cover GL has to be used.
- Attention: When using a tissue culture flask, the CO<sub>2</sub>-Cover cannot be used. In this case, it is not usually necessary to use CO<sub>2</sub>.



### REQUIREMENTS

- Galvo Stage (Leica) #1531144502 / #1531144501

### COMPATIBILITY

- Inverse microscopes with a Galvo Stage

### CELL CULTURE VESSELS

- Petri dishes Ø 30 mm and Ø 60 mm,
- Ibidi chambers,
- Lab-Tek™ chambers
- Tissue culture flasks (50 ml) by Greiner bio-one:
  - No. 690 160
  - No. 690 170
  - No. 690 175
  - No. 690 190
  - No. 690 195

## Unheated Inserts

<b>Catalog No.</b>	<b>Product</b>	<b>Number</b>	<b>Price</b>
327.000	Unheated Insert N		\$2,350.00
327.100	Unheated Insert N Lab-Tek™		\$2,625.00
122-800.049	Unheated Insert AM		\$2,075.00
328.100	Unheated Insert JP		\$2,035.00
328.200	Unheated Insert LP		\$2,035.00
328.000	Unheated Insert PP		\$2,080.00
120-800.120	Unheated Insert of 6, 35mm Petri Dishes		\$2,075.00
120-800.112	Unheated Insert GL-Set		\$2,035.00

PLEASE ALSO SEE SECTION ON CO<sub>2</sub> COVERS AND INSERTS

# **Heated Inserts and Frames for Inverted and Upright Microscopes**

## HEATED INSERT P

### DESCRIPTION

- Solid heating element made of one piece of aluminium with uniform heat distribution and a high thermal conductivity.
- Best solution for the work with high magnification, precise positioning, LSM applications and live cell imaging. Specimens are firmly seated in the Heating Insert P.
- An oval observation opening (32 x 30 mm) ensures both access to the objectives and maximum heat transfer. Lateral ducts through the insert permit the installation of perfusion tubes.
- Ideal for electrophysiological experiments because no disturbing switching pulses are emitted.
- Especially for the use with Petri dishes (35mm and 60mm) and the POC-R Cell Cultivation System. An adapter ring with Allen screws accommodates different 35mm Petri dishes.
- The insert can be levelled in the stage by 4 screws.
- The supplied red insert is used to close the observation opening when no culture vessel is inserted to maintain environmental conditions during incubation.
- A self-resetting over-temperature switch ensures maximum operational safety. Please also check the Heating Insert P Lab-Tek.



### REQUIREMENTS

- Tempcontrol 37-2 digital or
- Tempcontrol 37 (1-channel)

### COMPATIBILITY

- Inverse microscope with mechanical or scanning stage
- Incubator S
- Incubator S TIRF
- Incubator S-2

### CELL CULTIVATION VESSELS

- Petri dish 60mm
- Petri dish 35mm (with supplied adapter)
- POC-R Cell Cultivation System
- POCmini Cell Cultivation System

## HEATED INSERT P for Lab-Tek™

Same as Heated Insert P, but for Nunc Lab-Tek™ Chambers and other chambered slides.



## HEATED FRAME

### DESCRIPTION

- Solid heating frame made of aluminium with a uniform heat distribution and a high thermal conductivity.
- The frame has a circular observation opening (Ø 30 mm) and can be covered with a cover glass (Ø 35 mm).
- The base plate can be closed by a ball with a spring pressure.
- No interference by disturbing switching pulses and therefore well suited for electrophysiological examinations.
- The frame can be used in combination with the Heatable Cover for local CO<sub>2</sub> and temperature control in a completely closed environment.



### REQUIREMENTS

- Tempcontrol 37-2 digital

### COMPATIBILITY

#### Cell Cultivation System:

- Petri dishes ("35" and "60")
- POC, POC-R, POCmini
- Universal Mounting Frame MX for Object Guide
- Universal Mounting Frame KX for Scanning Stage
- Mounting Frame HA on the Axioplan/Axiophot

## HEATED INSERT for STEREOMICROSCOPES

### DESCRIPTION

- For heating of various cell culture vessels using universal transmitted light illumination for stereomicroscopes (e.g. Stemi SV 6, SV 11 and 2000).
- The insert is made of one solid piece of aluminium with a high thermal capacity and two variable holders to fix the vessel.
- Ideal for electrophysiological experiments because no disturbing switching pulses are emitted.
- A self-resetting over-temperature switch ensures maximum operational safety.



### REQUIREMENTS

- Tempcontrol 37-2 digital or
- Tempcontrol 37 (1-channel)

### COMPATIBILITY

- Universal Transmitted Light Illumination for Stereomicroscopes
  - - Stemi SV 6
  - - Stemi SV 11/SV 11 Apo
  - - Stemi 2000

For Zeiss and Leica microscopes. THIS PRODUCT IS NOT AVAILABLE FROM HemoGenix®.



## HEATED INSERTS for MULTIWELL PLATES

### DESCRIPTION

- The Heating Inserts Mxx S are designed for the stable heating of multiwell plates for the simultaneous monitoring and imaging of multiple, time-dependent events.
- Solid aluminium frame with an aluminium base plate and laminated printed circuit board with circular openings of defined diameter. Optimized thermal contact between the heated aluminium plate and the multiwell plate.
- Suitable for scanning and mechanical stages on inverted microscopes.
- For the control of temperature, the TempModule S (please contact HemoGenix<sup>®</sup>) is necessary.
- Multiwell plates are heated directly from below. For better temperature transfer in case of Heating Insert M06, the observation openings have a smaller diameter than the wells.
- The supplied red insert is used to close the observation openings when no culture vessel is inserted to maintain environmental conditions during incubation.
- The multiwell plate can be fixed with the provided PA screw.
- The alignment of the Heating Inserts to the optical axis can be adjusted with four screws.

### REQUIREMENTS

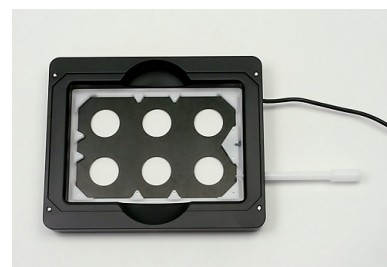
- Tempcontrol 37-2 digital or
- Tempcontrol 37 (1-channel)

### COMPATIBILITY

- Microscope with mechanical or scanning stage (with cut-out 160×110mm)

### CELL CULTIVATION VESSELS:

- Heating Insert M06: BD Falcon<sup>™</sup> / Corning<sup>®</sup> 6-well multiplate
- Heating Insert M12: BD Falcon<sup>™</sup> / Corning<sup>®</sup> 12-well multiplate
- Heating Insert M24: BD Falcon<sup>™</sup> / Corning<sup>®</sup> 24-well multiplate
- Heating Insert M96: BD Falcon<sup>™</sup> / Corning<sup>®</sup> 96-well multiplate



## Heated Inserts and Frames

<b>Catalog No.</b>	<b>Product</b>	<b>Number</b>	<b>Price</b>
426.300	Heated Insert P	1	\$5,200.00
441.100	Heated Insert P for Lab-Tek™	1	\$6,950.00
510.100	Heated Frame	1	\$2,200.00
Not available	Heated Insert for Stereomicroscopes		Not available
430.M06	Heated Insert M06 for a 6-well plate	1	\$6,825.00
430.M12	Heated Insert M12 for a 12-wll plate	1	\$6,825.00
430.M24	Heated Insert M24 for a 24-well plate	1	\$6,825.00
430.M96	Heated Insert M96 for a 96-well plate	1	\$6,825.00

PLEASE ALSO SEE SECTION ON CO<sub>2</sub> COVERS AND INSERTS

# **Heating and Cooling Inserts and Frames for Inverted and Upright Microscopes**

## HEATING and COOLING INSERT P

### DESCRIPTION

- Solid heating and cooling element made of one piece of aluminium with uniform heat distribution and a high thermal conductivity.
- Best solution for working with high magnification, precise positioning, LSM applications and live cell imaging. Specimens are firmly seated in the Temperable Insert P.
- Designed for the use with Petri dishes (35mm and 60mm) and the POC-R Cell Cultivation System. An adapter ring with Allen screws accommodates different 35mm Petri dishes. A spring clip for size 60mm Petri dishes is provided.
- An oval observation opening (32 x 30 mm) ensures both access to the objectives and maximum heat transfer. Due to mechanical reasons, the Heating and Cooling Insert P has no lateral ducts for the installation of perfusion tubes.
- Recommended for electrophysiological experiments because no disturbing switching pulses are emitted.
- The insert can be levelled in the stage by 4 screws.
- The supplied red insert is used to close the observation opening when no culture vessel is inserted to maintain environmental conditions during incubation.
- The tubes (1 m and 2 m) can be connected with self sealing couplings. The temperature range depends on the circulating water or other fluids and is regulated at the circulator.
- Please also check the Temperable Insert P Lab-Tek.



### REQUIREMENTS

- Heating-Cooling Circulator (e.g. Lauda RE 106)

### COMPATIBILITY

- Inverse microscope with mechanical stage or scanning stage
- Incubator S
- Incubator S TIRF
- Incubator S-2

### CELL CULTIVATION VESSELS

- Petri dish 60mm
- Petri dish 35mm (with supplied adapter)
- POC-R cell cultivation system
- POCmini cell cultivation system
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides

## HEATING and COOLING INSERT P Lab-Tek™

### DESCRIPTION

- Solid heating and cooling element made of one piece of aluminium with uniform heat distribution and a high thermal conductivity.
- Best solution for the work with high magnification, precise positioning, LSM applications and live cell imaging. Specimens are firmly seated in the Temperable Insert P.
- A rectangular observation opening (46 x 21 mm) ensures both access to the objectives and maximum heat transfer. Due to mechanical reasons, the Heating and Cooling Insert P – Lab-Tek™ type has no lateral ducts for the installation of perfusion tubes.
- Recommended for electrophysiological experiments because no disturbing switching pulses are emitted.
- Especially for the use with Lab-Tek™ chambers (adapter supplied), chamber slides and microscope slides.
- The insert can be levelled in the stage by 4 screws.
- The supplied red insert is used to close the observation opening when no culture vessel is inserted to maintain environmental conditions during incubation.
- The tubes (1 m and 2 m) can be connected with self sealing couplings. The temperature range depends on the circulating water or other fluids and is regulated at the circulator.
- Please also check the Temperable Insert P.



### REQUIREMENTS

- Heating-Cooling Circulator (e.g. Lauda RE 106)

### COMPATIBILITY

- Inverse microscope with mechanical stage or scanning stage
- Incubator S
- Incubator S TIRF
- Incubator S-2

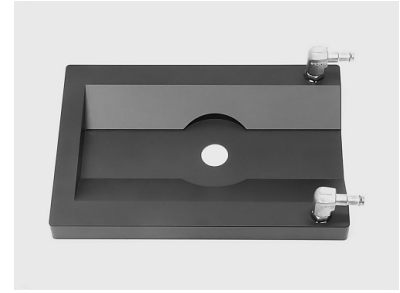
### CELL CULTIVATION VESSELS

- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides

## HEATING and COOLING INSERT X

### DESCRIPTION

- Solid heating and cooling element made of one piece of aluminium with uniform heat distribution and a high thermal conductivity.
- Rapid temperature changes (depending on the performance of the circulator) are possible due to the low mass of the insert.
- A circular observation opening (Ø 8 mm) ensures both access to the objectives and maximum heat transfer. The outer dimensions are identical to the ones for multiplates, therefore similar fixing solutions can be used to clamp the insert.
- Compatible with various cell culture vessels.
- Especially suited for micromanipulation with a flat angle.
- Recommended for electrophysiological experiments because no disturbing switching pulses are emitted.



### REQUIREMENTS

- Heating-Cooling Circulator (e.g. Lauda RE 106)
- Universal Mounting Frame MX or fixed stage with object guide
- UMF-LQ-X 3-plate x/y-stage (mechanical/motorized)

### COMPATIBILITY

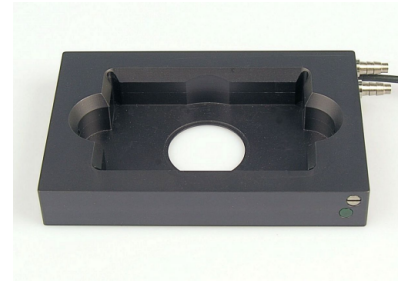
#### CELL CULTIVATION VESSELS

- Petri dish 35mm
- Lab-Tek™ (Nunc®) and chambered slides (BD Falcon™)
- Microscope slides

## HEATING and COOLING FRAME

### DESCRIPTION

- Solid temperable frame made of aluminium with a uniform heat distribution and a high thermal conductivity.
- The frame has a circular observation opening (Ø 30 mm) and can be covered with a cover glass (Ø 35 mm).
- The base plate can be closed by a ball with a spring pressure.
- No interference by disturbing switching pulses and therefore well suited for electrophysiological examinations.
- The frame can be used in combination with the Heatable Cover for local CO<sub>2</sub> and temperature control in a completely closed environment.



### REQUIREMENTS

- Heating-Cooling Circulator

### COMPATIBILITY

#### CELL CULTIVATION SYSTEMS:

- Petri dishes ("35" and "60")
- POC, POC-R2, POCmini 2

The Heating & Cooling Frame should be used with mechanical stages in combination with following Mounting Frames:

- Universal Mounting Frame MX for Object Guide
- Universal Mounting Frame KX for Scanning Stage
- Mounting Frame HA on the Axioplan/Axiophot

## Heating and Cooling Inserts and Frames

<b>Catalog No.</b>	<b>Product</b>	<b>Number</b>	<b>Price</b>
261.000	Heating and Cooling Insert P	1	\$3,350.00
265.000	Heating and Cooling Insert P Lab-Tek™	1	\$3,935.00
264.000	Heating and Cooling Insert X	1	\$1,425.00
520.000	Heating and Cooling Frame	1	\$2,850.00



# CO<sub>2</sub> Inserts and Covers

## CO<sub>2</sub> COVERS

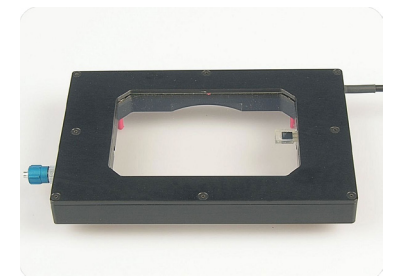
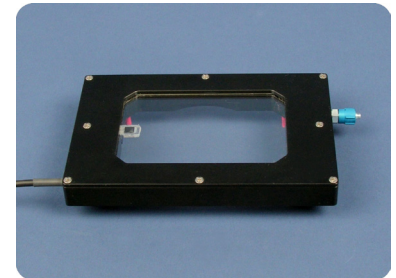
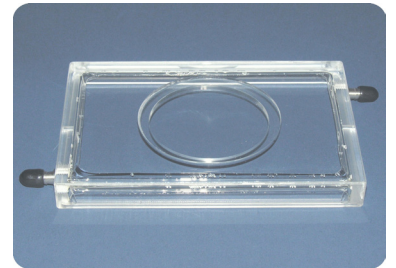
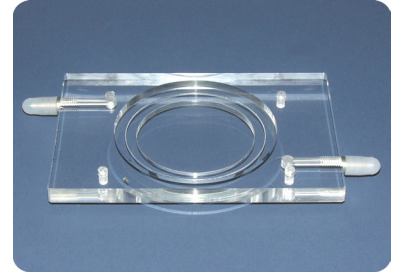
A large number of CO<sub>2</sub> covers with:

- Glass inserts and a heating a cooling frame.
- Glass inserts with a heating frame
- Heated glass

are available for:

- Different mounting frames
- Micromanipulation
- Different microscope stages
- Different microscopes

PLEASE SEE INFORMATION ON INSERTS, UNIVERSAL MOUNTING  
FRAMES, HEATING FRAMES



## CO<sub>2</sub> Covers and Inserts

Catalog No.	Product	Number	Price
0510.001	CO <sub>2</sub> Cover with glass insert for Cat. No. 0510.100	1	\$455.00
0520.001	CO <sub>2</sub> Cover with glass insert for Cat. No. 0520.000	1	\$455.00
0506.070	CO <sub>2</sub> Cover HP for Heating Insert P	1	\$915.00
150-800.111	CO <sub>2</sub> Cover HP-MG for Heating Insert P	1	\$2,625.00
150-800.017	CO <sub>2</sub> Cover PM for Heating Inserts M06, M12, M24, M96 and Insert AM	1	\$1,460.00
150-800.144	CO <sub>2</sub> Cover KM for Universal Mounting Frame KM	1	\$915.00
0506.010	CO <sub>2</sub> Cover KM for Universal Mounting Frame KM	1	\$900.00
0506.002	CO <sub>2</sub> Cover KH for Heated Universal Mounting Frame KH and KH-L	1	\$900.00
0506.080	CO <sub>2</sub> Cover KP for Catl No. 0311.400	1	\$900.00
150-800.018	CO <sub>2</sub> Cover Micromanipulation K for Heated Universal Mounting Frames KH, KH-L, KH-R	1	\$1,920.00
0506.081	CO <sub>2</sub> Cover KP for Universal Mounting Frame KP-Set Cat. No. 0311.400 (Micromanipulation)	1	\$1,825.00
0506.011	CO <sub>2</sub> Cover Micromanipulation M for Heated Universal Mounting Frames MH, MH-L, MH-R	1	\$1,920.00
150-800-052	CO <sub>2</sub> Cover LM for multiplates (Ludl Piezo Stage)	1	\$1,196.00
150-800.160	CO <sub>2</sub> Cover AKH for Heated Universal Mounting Frame AKH Series	1	\$2,275.00
150-800.169	CO <sub>2</sub> Cover AK for Universal Mounting Frame AK and AK-Set	1	\$2,275.00
150-800.027	CO <sub>2</sub> Cover RHT for 35mm and 60mm Petri dishes	1	\$1,835.00
150-800.048	CO <sub>2</sub> Cover JP for Insert JP-Set	1	\$900.00
150-800.047	CO <sub>2</sub> Cover LP for Insert LP-set	1	\$900.00
150-800.045	CO <sub>2</sub> Cover PP for Insert PP-Set	1	\$1,175.00
150-800.121	CO <sub>2</sub> Cover for Insert for 6 x 35mm Petri dishes	1	\$1,615.00

## HemoGenix<sup>®</sup> Contact Information

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None of the assays described in this Catalog are for diagnostic use or procedures

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