

**MOUNTING REFERENCE GUIDE** 

## Mindray Monitoring BeneVision N22/N19

CIM Cable Integrated Mounting System





## Content

General notes	
How to create part numbers	
Product highlights	
Flush mount for BeneVision N22/N19	
Support arm pivot for BeneVision N22/N19	
Height adjustable arm for BeneVision N22/N19	1
Extended height adjustable arm for BeneVision N22/N19	1
Table column for BeneVision N22/N19	1
Support arm pivot with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse	1
Height adjustable arm with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse	1
Extended height adjustable arm with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse	2
Adapter plate quick release for SMR	2
Support arm pivot for SMR	2
Extended pivot arm light duty for SMR	2
Down post for SMR	2
Bracket for PC	2
Fixings	3
Configuration examples	3

/

2



Mmed

#### **Monitor Adaptations**

**VESA 75/100** monitor adaptation for BeneVision N22/N19 patient monitor.

**Quick Release** is used for SMR. The monitor adaption SMR quick release offers tool-free disassembly of the module rack.

#### **Components' grounding**

All arms with integrated cable management are equipped with **component grounding**. No grounding is required for arms with external or semi-integrated cable management with cables not being led through joints.

#### Load capacity

All height adjustable arms have a load capacity of 22 kg / 48.5 lbs. Rear mounted monitor adaptations and horizontally mounted 5" plunge plates accept a maximum monitor weight of 18 kg / 39.7 lbs. An additional 4 kg / 8.8 lbs may be mounted on a down post underneath the front swivel part. Depending on material and tensile factor all weight indications have a 4-fold and/ or 6-fold safety factor according to IEC 60601-1 standards.

#### **Custom-designed solutions and MRI applications**

Please contact us for custom-designed solutions.

#### **Product marking**

All CIM products are CE marked. As **medical product risk class 1** they are conform with the regulations (EU) 2017/745 (MDR) and IEC 60601-1. Other standards of the IEC 60601 series are not applicable to our products, regardless of their version.

**MD** A stand-alone product that is already classified as a medical product class 1 before being integrated into an overall medical device. The product is CE-marked. A declaration of conformity is available.

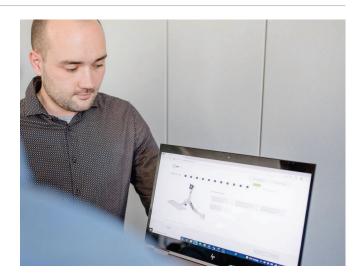
Accessories or spare parts that have no independent function and are therefore not subject to the MDR. These products are not CE-marked. A declaration of conformity is not required.

#### Warranty

All CIM products have a 5-year warranty to be free of defects in material and fuctionality from the date of delivery.

# How to find the right product for your needs?

No problem with our configurator https://cim-configurator.com





### How to create part numbers

#### Part numbers can be easily created by following the steps below:

Please replace the letters in green with the part no. code as per your requirements.

1.	Components' grounding:		
	S	=	not grounded
	Α	=	grounded
2.	Choose the arm version required:		
	910G	=	flush mount
	224G / 230G	=	support arm pivot
	431G	=	height adjustable arm
	73130G	=	extended height adjustable arm
	224F / 230F	=	support arm pivot with W-bracket
	431F	=	height adjustable arm with W-bracket
	73130F	=	extended height adjustable arm with W-bracket
	224Q / 230Q	=	support arm pivot for SMR
	33030Q	=	extended pivot arm light duty for SMR
3.	Specify where you want to mount t	he arm	and select the fixing (Y):
	1V	=	pole ø 23 - 40 mm / 0.9 - 1.6"
	1	=	pole ø 25 mm / 1.0"
	1B	=	pole ø 30 mm / 1.2"
	1F	=	pole ø 35 mm / 1.4"
	1C	=	pole ø 38 mm / 1.5"
	2F	=	horizontal rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm
	3	=	vertical rail 10 x 25 mm
	4S	=	vertical wall channel
	9	=	Löwenstein Medical / ITD / mounting channel
	13	=	Mindray medical supply units
	17	=	Amico pendants & headwalls
	19	=	Dräger Ambia pendants & headwalls

### 4. Choose the colour requested for decorative parts (C):

- gr = RAL 7024 (graphite grey)
- bl = RAL 5013 (cobalt blue)



1

2

### How to create part numbers

- 5. Choose the colour requested for the aluminium die-cast parts (D):
  - = RAL 9016 (traffic white) = RAL 9002 (grey white)
- 6. Specify the spring depending on the weight of your monitor/ device only with height adjustable arms (X): Please note that the weight range of the individual springs may vary depending on the bracket (X). Pneumatic Springs Explained:

The weight ranges of the pneumatic springs shown in our catalogues relate to the minimum and maximum weights of the products that can be added to the arm, for a perfectly balanced solution. The weight ranges can vary with the same pneumatic springs, as the overall weights placed on the front of the arms have to be considered. The total weight not only reflects the actual monitor weight, but also includes monitor adaptations, brackets and/ or trays. When choosing the pneumatic spring, please consider the weight of your monitor/ device only.

For VESA adaptation			For W-bracket				
60	=	2 - 5 kg / 4.4 - 11 lbs					
95	=	4 - 9 kg / 8.8 - 19.8 lbs	95	=	2.5 - 5.5 kg / 5.5 - 12.1 lbs		
130	=	7.5 - 13 kg / 16.5 - 28.7 lbs	130	=	6 - 10 kg / 13.2 - 22 lbs		
175	=	13 - 16 kg / 28.7 - 35.3 lbs	175	=	11 - 14 kg / 24.3 - 30.9 lbs		
220	=	16 - 22 kg / 35.3 - 48.5 lbs	220	=	13 - 16 kg / 28.7 - 35.3 lbs		

### 7. Specify the requested size of the keyboard tray and mouse (T):

Standard	Magnetic	With wrist rest		Dimensions
30	30S		=	300 x 210 mm / 11.8 x 8.3"
40	40S		=	400 x 150 mm / 15.7 x 5.9"
50	50S	50W	=	500 x 200 mm / 19.7 x 7.9"
58	58S	58W	=	580 x 200 mm / 22.8 x 7.9"
65	65S	65W	=	650 x 200 mm / 25.6 x 7.9"
RC			=	480 x 220 mm (retractable mouse tray left/right 226 mm / 8

### Example

01 Grounding		02 Arm version		03 Fixing	04 & 05 Colour		06 Spring tension		07 Keyboard tray
A	-	431F	-	Y	CD	_	X		Т
A	-	431F	-	4S	gr1	_	95	_	30



### **Product highlights**

#### Non-height adjustable arm

Pivot and extended pivot arms offer full cable integration and easy cleaning for infection control in all critical care areas in the clinical environment. Our 5-years warranty guarantees reliable, trouble-free and maintenance-free operation. The swivel function at the fixing point as well as the tilt/ swivel function of the monitor adaptation offers optimum positioning of your device. The extended pivot arm is a two-part arm with central pivot point between the two arm sections. All bottommounted monitors have the safety feature of a 20° tilt stop.

#### Height adjustable arm

The height adjustable arm offers **full cable integration**, onewipe clean surfaces and our **5-year warranty** on the entirety of the product. Vertically and horizontally adjustable, the arm offers optimal positioning of your device. A constant viewing angle when vertically adjusted is guaranteed by a parallel linkage. **Weight-optimized springs counter-balance** the monitor without making any adjustments. All bottom-mounted monitors have the safety feature of a **20° tilt stop**. Individual rotational stops may be integrated in any joint.

To provide the perfect combination of arm and monitor, the CIM articulated height adjustable arm has a simple quarter-turn lock to hold the arm safely in position when removing the monitor. Furthermore the arm is equipped with the unique safety feature of a slow-release gas spring. Should anybody try to remove the monitor before locking the arm in position, the arm will only rise at a slow and even tempo.







### Flush mount for BeneVision N22/N19





#### **Monitor adaption**

Colours to choose CD

Max. load capacity support arm Max. load monitor adaptation Product weight

Part number

### VESA 75/100

decorative parts<br/>aluminum partsRAL 5013 cobalt blue / RAL 7024 graphite grey<br/>RAL 9016 traffic white / RAL 9002 grey white18 kg / 39.7 lbs<br/>1 kg / 2.2 lbskg / 39.7 lbs<br/>kg / 39.7 lbs

#### S-910G-Y.CD

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls





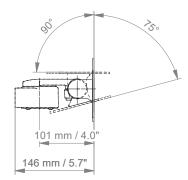


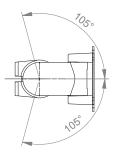


### Flush mount for BeneVision N22/N19

### Technical data

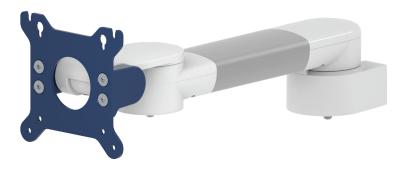
SIDE VIEW







### Support arm pivot for BeneVision N22/N19



Monitor adaption	VESA 75/100	
Colours to choose CD		RAL 5013 cobalt blue / RAL 7024 graphite grey RAL 9016 traffic white / RAL 9002 grey white
Max. load capacity support arm Max. load monitor adaptation Product weight	18 kg / 39.7 lbs 18 kg / 39.7 lbs arm type 240 1.8 kg / 4.0 lbs	arm type 300 1.9 kg / 4.2 lbs
Part number	arm type 240 A-224G- <mark>Y.CD</mark>	arm type 300 A-230G- <mark>Y.CD</mark>

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel



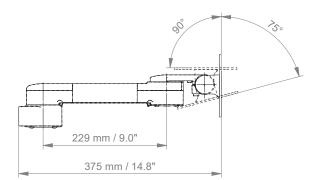
MD

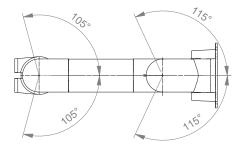


### Support arm pivot for BeneVision N22/N19

### Technical data - arm type 300

SIDE VIEW







### Height adjustable arm for BeneVision N22/N19

Monitor adaption	VESA 75/100
Height adjustment	slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose CD	decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey aluminum parts RAL 9016 traffic white / RAL 9002 grey white
Max. load capacity support arm Max. load monitor adaptation Product weight	22 kg / 48.5 lbs 18 kg / 39.7 lbs 3.8 kg / 8.4 lbs
Balancing range X	<ul> <li>950 N: N19/N22</li> <li>1300 N: N19/N22 with PC N19 with SMR (4 modules) mounted on down post</li> <li>1750 N: N22 with SMR (4 modules) mounted on down post N19/N22 with SMR (8 modules) mounted on down post</li> <li>2200 N: N19/N22 with PC and SMR (4 modules) mounted on down post N19/N22 with PC and SMR (8 modules) mounted on down post</li> </ul>
Part number	A-431G-Y.CD_X

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

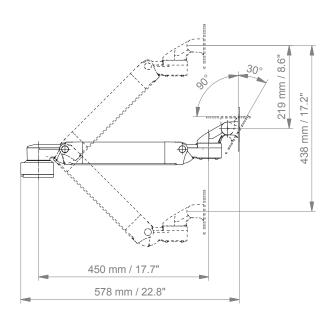


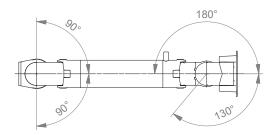


### Height adjustable arm for BeneVision N22/N19

**Technical data** 

SIDE VIEW







### Extended height adjustable arm for BeneVision N22/N19

Monitor adaption	VESA 75/100
-	
Height adjustment	slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose CD	decorative partsRAL 5013 cobalt blue / RAL 7024 graphite greyaluminum partsRAL 9016 traffic white / RAL 9002 grey white
Max. load capacity support arm Max. load monitor adaptation Product weight	22 kg / 48.5 lbs 18 kg / 39.7 lbs 4,8 kg / 10.6 lbs
Balancing range X	<ul> <li>950 N: N19/N22</li> <li>1300 N: N19/N22 with PC N19 with SMR (4 modules) mounted on down post</li> <li>1750 N: N22 with SMR (4 modules) mounted on down post N19/N22 with SMR (8 modules) mounted on down post</li> <li>2200 N: N19/N22 with PC and SMR (4 modules) mounted on down post N19/N22 with PC and SMR (8 modules) mounted on down post</li> </ul>
Part number	A-73130G-Y.CD_X

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp





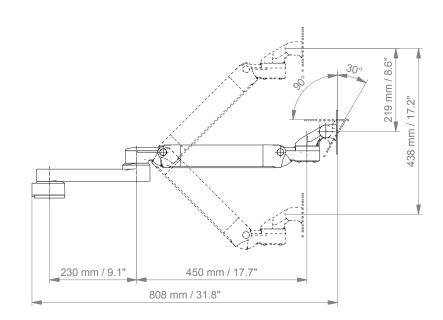


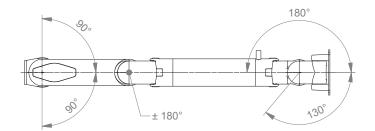


### Extended height adjustable arm for BeneVision N22/N19

**Technical data** 

SIDE VIEW







### Table column for BeneVision N22/N19



Monitor adaption

Colours to choose CD

Max. load monitor adaptation

Part number

All free-standing counter tops have to be tip-tested for stability depending on the weight of the monitor!

#### VESA 75/100

decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey aluminum parts RAL 9016 traffic white / RAL 9002 grey white

18 kg / 39.7 lbs

Counter top with base plate to mount to desk or even surfaces (see illustration) T-CG-60.CD\_350 height 350 mm / 13.8"

Counter top free-standing T-CG-62.CD\_350 height 350 mm / 13.8"

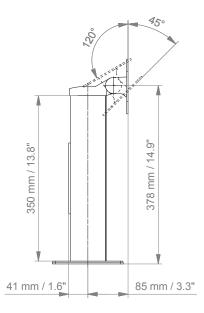
Vertical mount for PC (to mounted on rear side of the column) MD-PC-4Z.1 (details see page 29) MD

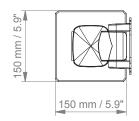


### Table column for BeneVision N22/N19

#### Technical data - with base plate

SIDE VIEW







# Support arm pivot with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse



MD



Colours to choose CD

Max. load capacity support arm Max. load monitor adaptation Product weight

**Keyboard tray** 

Part number

W-bracket VESA 75/100 and keyboard / mouse tray

decorative partsRAL 5013 cobalt blue / RAL 7024 graphite greyaluminum partsRAL 9016 traffic white / RAL 9002 grey white

 18 kg / 39.7 lbs

 18 kg / 39.7 lbs

 arm type 240

 3.4 - 5.0 kg / 7.5 - 11.0 lbs

 3.6 - 5.1 kg / 7.9 - 11.2 lbs (according to dimensions of keyboard tray)

300 x 210 mm, 400 x 150 mm, 500 x 200 mm, 580 x 200 mm, 650 x 200, 480 x 220 mm 11.8 x 8.3", 15.7 x 5.9", 19.7 x 7.9", 22.8 x 7.9", 25.6 x 7.9", 18.9 x 8.7"

arm type 240 A-224F-Y.CD\_T arm type 300 A-230F-Y.CD\_T

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp





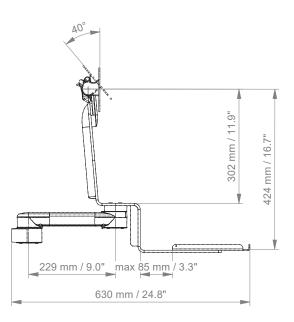


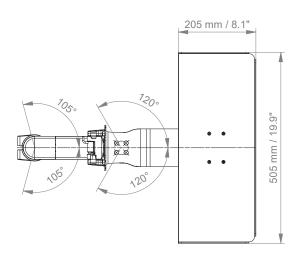


# Support arm pivot with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse

Technical data - arm type 300, keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW







### Height adjustable arm with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse



slow-flowing spring, parallel linkage for a constant viewing angle

decorative parts RAL 5013 cobalt blue / RAL 7024 graphite grey aluminum parts RAL 9016 traffic white / RAL 9002 grey white

5.3 - 6.9 kg / 10.8 - 15.2 lbs (according to dimensions of keyboard tray)

11.8 x 8.3", 15.7 x 5.9", 19.7 x 7.9", 22.8 x 7.9", 25.6 x 7.9", 18.9 x 8.7"

Monitor adaption

**Height adjustment** 

Colours to choose CD

Max. load capacity support arm Max. load monitor adaptation Product weight

Balancing range X

Keyboard tray T

Part number

A-431F-Y.CD\_X\_T

details page 31

18 kg / 39.7 lbs

18 kg / 39.7 lbs

1300 N:

1750 N:

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls



N22/ N19 N19 with PC

N22 with PC

Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



300 x 210 mm, 400 x 150 mm, 500 x 200 mm, 580 x 200 mm, 650 x 200, 480 x 220 mm

Universal pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

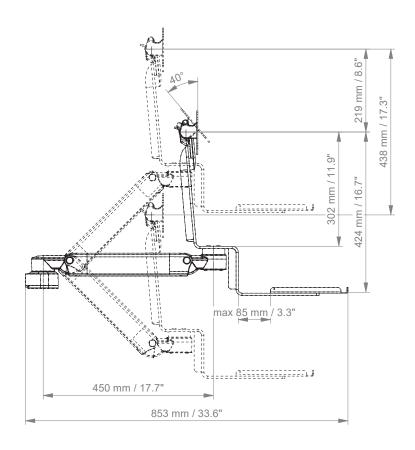


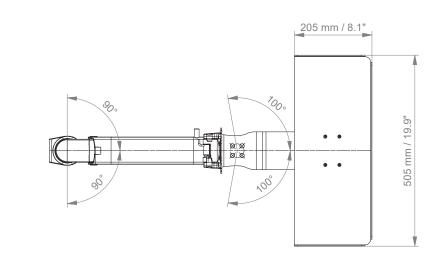


### Height adjustable arm with ergonomic W-bracket for BeneVision N22/N19 with keyboard / mouse

Technical data - keyboard tray 500 x 200 mm / 19.7 x 7.9"

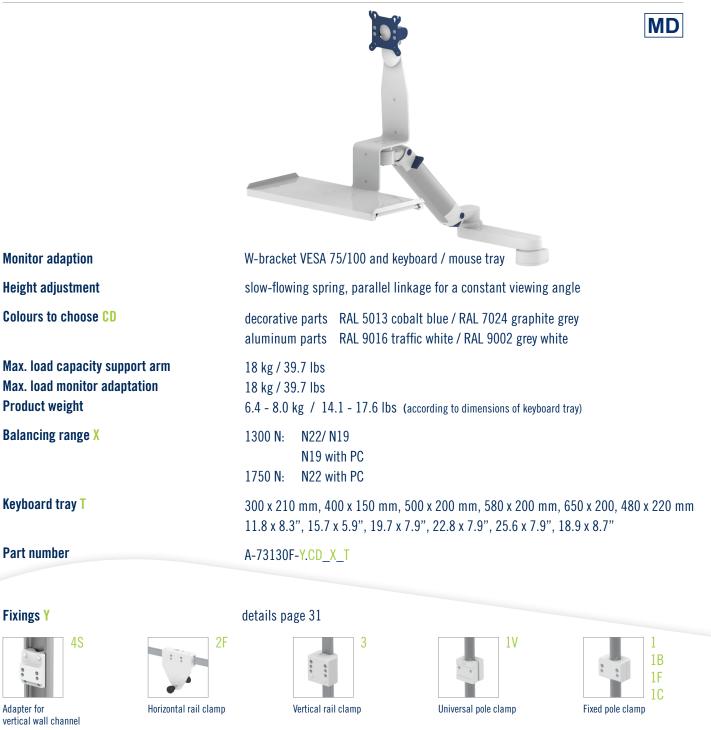
SIDE VIEW







### Extended height adjustable arm with W-bracket for BeneVision N22/N19 with keyboard / mouse





Adapter for Mindray medical supply units



Adapter for Amico pendants & headwalls



Adapter for Dräger Ambia pendants & headwalls

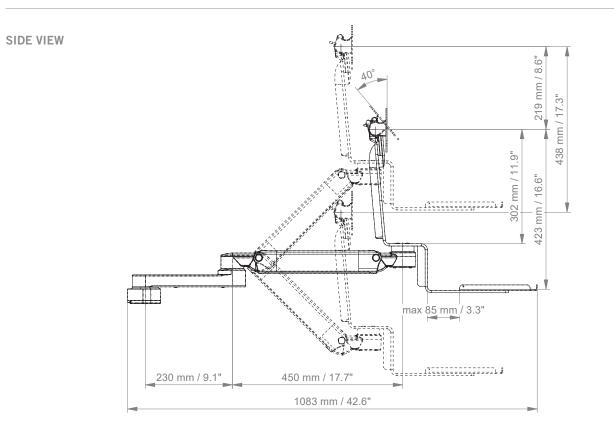


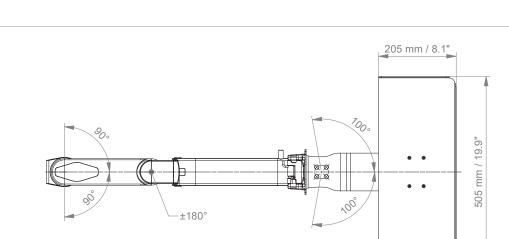
Adapter for Löwenstein Medical / ITD / mounting channel



# Extended height adjustable arm with W-bracket for BeneVision N22/N19 with keyboard / mouse

Technical data - keyboard tray 500 x 200 mm / 19.7 x 7.9"







### Adapter plate quick release for SMR



### Adapter plate quick release (MD-QR-SMR.1)

The adapter plate matches the hole pattern of the SMR module housing and is included in the package. The adapter plate has to be ordered separately. Product weight 0.2 kg / 0.4 lbs





### Support arm pivot for SMR



#### **Monitor adaption**

Colours to choose CD

Max. load capacity support arm Max. load monitor adaptation Product weight

Part number

#### quick release base plate

decorative parts	RAL 5013 cobalt blue / RAL 7024 graphite grey
aluminum parts	RAL 9016 traffic white / RAL 9002 grey white
18 kg / 39.7 lbs 18 kg / 39.7 lbs	
arm type 240	arm type 300
1.6 kg / 3.5 lbs	1.8 kg / 4.0 lbs
arm type 240	arm type 300
A-224Q- <mark>Y.CD</mark>	A-230Q- <mark>Y.CD</mark>
MD-QR-SMR.1	quick release adapter plate SMR

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel



MD

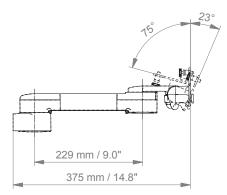


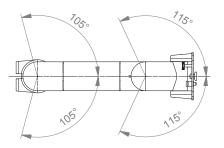


### Support arm pivot for SMR

### Technical data - arm type 300

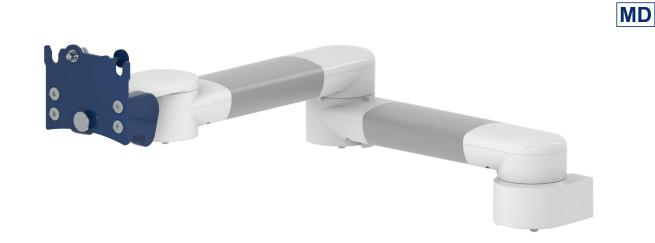
SIDE VIEW







### Extended pivot arm light duty for SMR



Monitor adaption	quick release base plate				
Colours to choose CD		RAL 5013 cobalt blue / RAL 7024 graphite grey RAL 9016 traffic white / RAL 9002 grey white			
Max. load capacity support arm Max. load monitor adaptation Product weight	8 kg / 17.6 lbs 8 kg / 17.6 lbs 2.7 kg / 6.0 lbs				
Part number	A-33030Q- <mark>Y.CD</mark> MD-QR-SMR.1	quick release adapter plate SMR			

#### **Fixings Y**



Adapter for vertical wall channel



Adapter for Mindray medical supply units



Horizontal rail clamp



Adapter for Amico pendants & headwalls

### details page 31



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

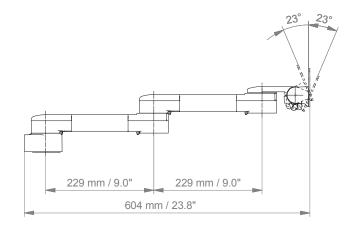


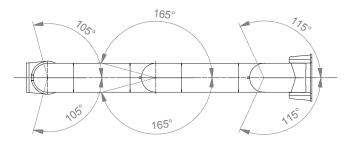


### Extended pivot arm light duty for SMR

**Technical data** 

SIDE VIEW







### **Down post for SMR**





Part number

#### rotatable, to attach to non-height adjustable arms

including SMR adapter plate quick release / SMR (page 23) Z-DPR-SMR-70.gr1\_400 length 400 mm / 15.8" Z-DPR-SMR-70.gr1\_300 length 300 mm / 11.8"

#### rotatable, to attach to height adjustable arms

including SMR adapter plate quick release / SMR (page 23) Z-DPR-SMR-71.gr1\_400 length 400 mm / 15.8" Z-DPR-SMR-71.gr1\_300 length 300 mm / 11.8"



### **Bracket for PC - wall channel**

MD



Fixed PC bracket Part number adapter plate for existing wall channel MD-PC-4Z.1



### Bracket for PC - european rail or pole



Fixed PC bracket Part number adapter plate for European rail or pole MD-PC-WK-Y.1

Fixings **Y** 





details page 31

Universal pole clamp



Horizontal rail clamp

MD



## Fixings Y



at 1

Illustration	Description	Notes	Weight	Part no.
	Adapter for vertical wall channel	To mount to CIM wall channel (compatible with GCX channel) Please order separately: CIM wall channel, see catalogue accessoires	0.6 kg / 1.3 lbs	4S
	Horizontal rail clamp	To mount to horizontal European rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm	1.1 kg / 2.4 lbs	2F
	Vertical rail clamp	To mount to vertical European rail 10 x 25 mm	0.5 kg / 1.1 lbs	3
	Universal pole clamp	V-block to mount to pole ø 23 - 40 mm / 0.9 - 1.6"	0.6 kg / 1.3 lbs	1V
• •	Fixed pole clamp	To mount to pole ø 25 mm / 1.0" To mount to pole ø 30 mm / 1.2" To mount to pole ø 35 mm / 1.4" To mount to pole ø 38 mm / 1.5"	0.3 kg / 0.7 lbs 0.4 kg / 0.9 lbs 0.4 kg / 0.9 lbs 0.4 kg / 0.9 lbs	1 1B 1F 1C
	Adapter medical supply units     For Mindray medical supply units		0.8 kg / 1.8 lbs	13
→ + □a	Adapter pendants & headwalls	For Amico pendants & headwalls	0.6 kg / 1.3 lbs	17
• •	Adapter pendants & headwalls	For Dräger Ambia pendants & headwalls	0.6 kg / 1.3 lbs	19
	Adapter pendants & headwalls	For Löwenstein Medical / ITD / mounting channels	0.4 kg / 0.9 lbs	9



## **Configuration examples**



Mounting	Description	Part no.
BeneVision N22/N19	<b>BeneVision N22/N19</b> CIM height adjustable arm with ergonomic W-bracket for monitor (VESA 75/100) and keyboard tray 580 x 200 mm / 22.8 x 7.9"	
SMRCIM pivot arm with SMR, arm length 300 mm / 11.8"Dual cable hook to mount underneath pivot arm		A-230SMR-4S.bl1 Z-KH2-70.1
PC	Bracket for PC	MD-PC-4Z.1
Optional to order	CIM wall channel (including channel cover and end caps) L = 480 mm / 18.9" L = 720 mm / 28.4" L = 960 mm / 37.8"	Z-WK.w_480 Z-WK.w_720 Z-WK.w_960



## **Configuration examples**



Mounting	Description	Part no.
BeneVision N22/N19	CIM pivot arm for monitor (VESA 75/100), arm length 230 mm / 9.1" Down post, length 400 mm / 15.8", to mount SMR	A-230G-4S.bl1 Z-DPR-SMR-70.bl1_400
Optional to order	CIM wall channel (including channel cover and end caps) L = 480 mm / 18.9" L = 720 mm / 28.4" L = 960 mm / 37.8"	Z-WK.w_480 Z-WK.w_720 Z-WK.w_960



### CIM med GmbH

Euro-Industriepark Margot-Kalinke-Str. 9 80939 Munich / Germany

T +49 89.978 94 08-0

#### CIM med Inc.

2024 E Independence Commerce Dr Matthews, NC 28105 / USA

T +1 855 895 4722

info@cim-med.com www.cim-med.com

