

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	13
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	19
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	24
Extended pivot arm light duty for SMR	20
Down post for SMR	2
Adapter plate for PC	29
Fixings	30
Configuration examples	3





General notes

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 the arm and select the fixing (Y):

1٧ 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" = 10 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):

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





How to create part numbers

- 5. Choose the colour requested for the aluminium die-cast parts (D):
 - 1 = RAL 9016 (traffic white)
 - 2 = 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):

<u>Standard</u>	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	58\$	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 / 8.9")

Example

01 Grounding		02 Arm version		03 Fixing	04 & 05 Colour		06 Spring tension		07 Keyboard tray
A	-	431F	-	Υ	CD	_	Χ	_	Т
A	_	431F	_	4\$	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**, one-wipe 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.











Monitor adaption VESA 75/100

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 arm18 kg / 39.7 lbsMax. load monitor adaptation18 kg / 39.7 lbsProduct weight1 kg / 2.2 lbs

Part number S-910G-Y.CD

Fixings Y



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 30



Vertical rail clamp



Universal pole clamp



Fixed pole clamp



Adapter for Dräger Ambia pendants & headwalls

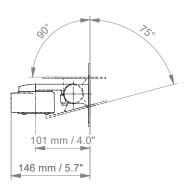




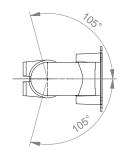
Flush mount for BeneVision N22/N19

Technical data

SIDE VIEW



TOP VIEW

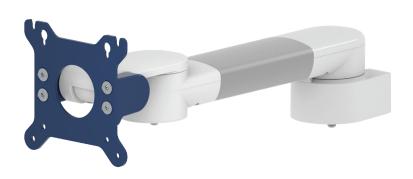






Support arm pivot for BeneVision N22/N19

MD



Monitor adaption

Colours to choose CD

Max. load capacity support arm
Max. load monitor adaptation

Product weight

Part number

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 18 kg / 39.7 lbs

arm type 240 arm type 300 1.8 kg / 4.0 lbs 1.9 kg / 4.2 lbs

arm type 240 arm type 300 A-224G-Y.CD A-230G-Y.CD

Fixings Y



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 30



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



1B 1F

Fixed pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

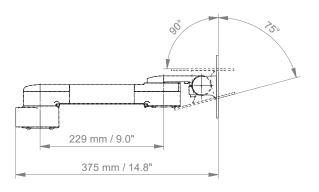




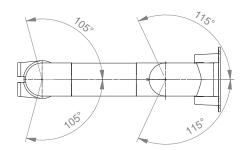
Support arm pivot for BeneVision N22/N19

Technical data - arm type 300

SIDE VIEW



TOP VIEW









Monitor adaption

Height adjustment

Colours to choose CD

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

Balancing range X

VESA 75/100

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

22 kg / 48.5 lbs 18 kg / 39.7 lbs 3.8 kg / 8.4 lbs

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950 N: N19/N22

1300 N: N19/N22 with PC

N19 with SMR (4 modules) mounted on down post

1750 N: N22 with SMR (4 modules) mounted on down post

N19/N22 with SMR (8 modules) mounted on down post

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

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 30

Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



1B 1F

Fixed pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

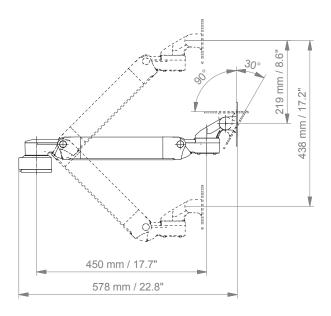




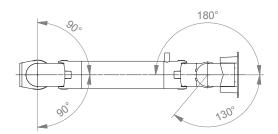
Height adjustable arm for BeneVision N22/N19

Technical data

SIDE VIEW



TOP VIEW





Extended height adjustable arm for BeneVision N22/N19

MD VESA 75/100 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

Colours to choose CD

Monitor adaption

Height adjustment

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

Balancing range X

22 kg / 48.5 lbs 18 kg / 39.7 lbs 4,8 kg / 10.6 lbs

950 N: N19/N22

1300 N: N19/N22 with PC

N19 with SMR (4 modules) mounted on down post

1750 N: N22 with SMR (4 modules) mounted on down post

N19/N22 with SMR (8 modules) mounted on down post

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

Part number A-73130G-Y.CD_X

Fixings Y



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

details page 30



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



1B 1F

Fixed pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

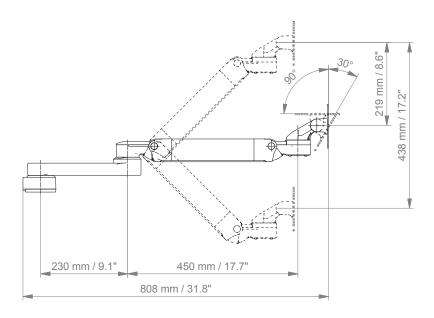




Extended height adjustable arm for BeneVision N22/N19

Technical data

SIDE VIEW



TOP VIEW

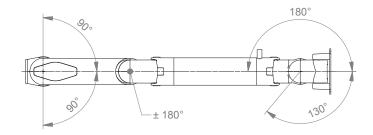




Table column for BeneVision N22/N19





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)

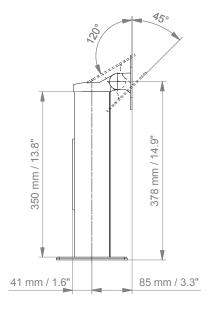




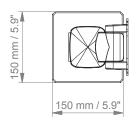
Table column for BeneVision N22/N19

Technical data - with base plate

SIDE VIEW



TOP VIEW









Monitor / keyboard adaption

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 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

details page 30

arm type 240 arm type 300

 $3.4-5.0\ kg\ /\ 7.5-11.0\ lbs\qquad 3.6-5.1\ kg\ /\ 7.9-11.2\ lbs\ \ (according\ to\ dimensions\ of\ keyboard\ tray)$

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

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 arm type 300
A-224F-Y.CD_T A-230F-Y.CD_T

Fixings Y



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



1B 1F

Fixed pole clamp



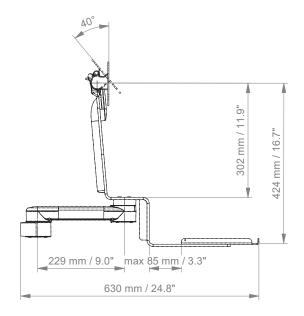
Adapter for Löwenstein Medical / ITD / mounting channel



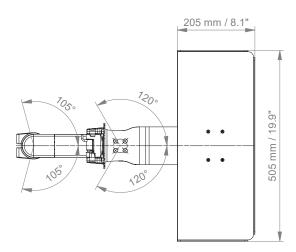


Technical data - arm type 300, keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW



TOP VIEW









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

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

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

18 kg / 39.7 lbs 18 kg / 39.7 lbs

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

1300 N: N22/N19

N19 with PC

1750 N: N22 with PC

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"

A-431F-Y.CD X T

details page 30

Fixings Y



Adapter for vertical wall channel



Adapter for Mindray medical supply units

Horizontal rail clamp



Adapter for Amico pendants & headwalls



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp







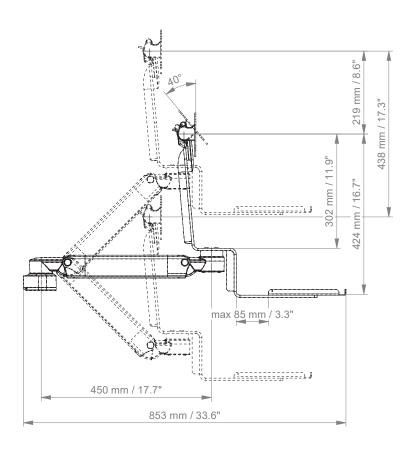
Adapter for Löwenstein Medical / ITD / mounting channel



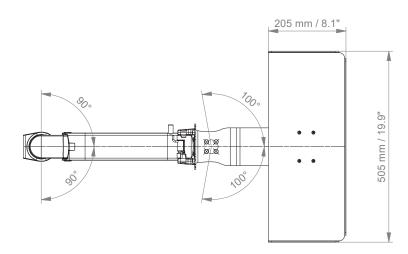


Technical data - keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW



TOP VIEW





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



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

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

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

18 kg / 39.7 lbs 18 kg / 39.7 lbs

6.4 - 8.0 kg / 14.1 - 17.6 lbs (according to dimensions of keyboard tray)

1300 N: N22/ N19

N19 with PC

1750 N: N22 with PC

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"

A-73130F-Y.CD X T

details page 30

Fixings Y



Adapter for vertical wall channel



Adapter for Mindray medical supply units

2F

Horizontal rail clamp



Adapter for Amico pendants & headwalls

Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



1B 1F

MD

Fixed pole clamp



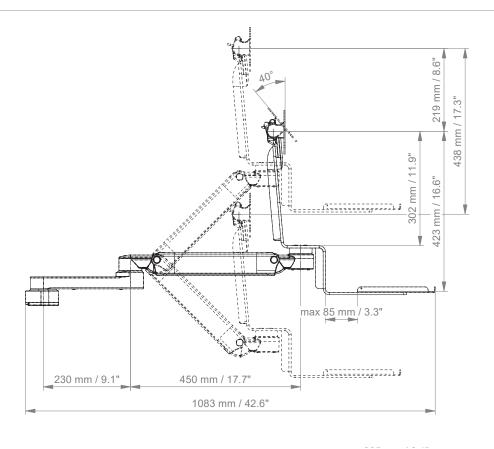
Adapter for Löwenstein Medical / ITD / mounting channel

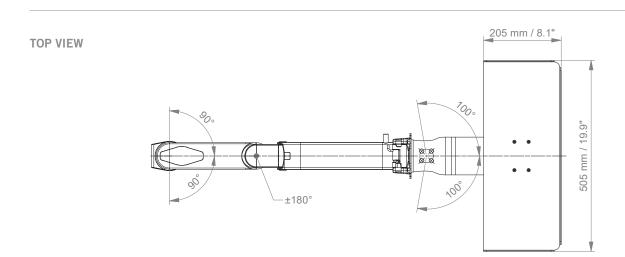




Technical data - keyboard tray 500 x 200 mm / 19.7 x 7.9"

SIDE VIEW











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

MD



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

 $\begin{array}{ll} \text{arm type 240} & \text{arm type 300} \\ 1.6 \text{ kg} \, / \, 3.5 \text{ lbs} & 1.8 \text{ kg} \, / \, 4.0 \text{ lbs} \\ \end{array}$

arm type 240 arm type 300 A-224Q-Y.CD A-230Q-Y.CD

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 30

Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls



Universal pole clamp



1B 1F

Fixed pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

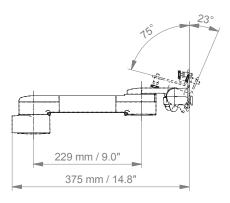




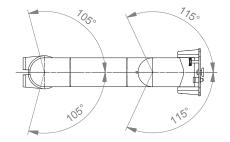
Support arm pivot for SMR

Technical data - arm type 300

SIDE VIEW



TOP VIEW

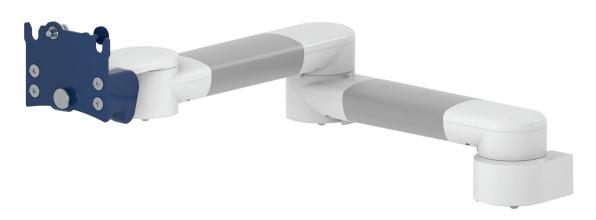






Extended pivot arm light duty for SMR

MD



Monitor adaption

quick release base plate

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

2.7 kg / 6.0 lbs A-33030Q-Y.CD

8 kg / 17.6 lbs

8 kg / 17.6 lbs

Part number

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 30



Vertical rail clamp



Adapter for Dräger Ambia pendants & headwalls





Universal pole clamp



1B 1F

Fixed pole clamp



Adapter for Löwenstein Medical / ITD / mounting channel

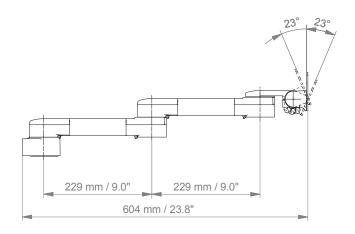




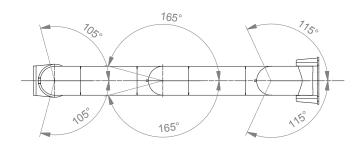
Extended pivot arm light duty for SMR

Technical data

SIDE VIEW



TOP 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_300 length 300 mm / 11.8"
Z-DPR-SMR-70.gr1_400 length 400 mm / 15.8"

rotatable, to attach to height adjustable arms

including SMR adapter plate quick release / SMR (page 23)
Z-DPR-SMR-71.gr1_300 length 300 mm / 11.8"
Z-DPR-SMR-71.gr1_400 length 400 mm / 15.8"





Adapter plate for PC





Fixed PC bracket

adapter plate for PC

Part number

MD-PC-Y.1

Fixings Y



Vertical rail clamp

details page 30



Universal pole clamp



Horizontal rail clamp



Adapter for vertical wall channel



Adapter for Dräger Ambia pendants & headwalls



Fixings Y



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	4 S
	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
0 0	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
+ 11	Adapter pendants & headwalls	For Amico pendants & headwalls	0.6 kg / 1.3 lbs	17
::0	Adapter pendants & headwalls	For Dräger Ambia pendants & headwalls	0.6 kg / 1.3 lbs	19
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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	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"	A-431F-4S.bl1_130_58
SMR	CIM 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) $L = 480 \text{ mm } / 18.9"$ $L = 720 \text{ mm } / 28.4"$ $L = 960 \text{ mm } / 37.8"$	Z-WK.w_480 Z-WK.w_720 Z-WK.w_960



Configuration examples



Mounting	Description	Part no.
BeneVision N22/N19	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	
Optional to order	CIM wall channel (including channel cover and end caps) $L = 480 \text{ mm } / 18.9"$ $L = 720 \text{ mm } / 28.4"$ $L = 960 \text{ mm } / 37.8"$	Z-WK.w_480 Z-WK.w_720 Z-WK.w_960



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