



Creative Human Machine Interface Solution Supplier

PANELMATE
Creative HMI Solution



SHANGHAI PANELMATE ELECTRONICS CO.,LTD.

Building 18th, No.177 FuLian 2nd Road, BaoShan District, Shanghai, 201906

Tel: 0086-(0)21-54851801, 0086-(0)21-56590558 Fax: 0086-(0)21-66783683

[Http://www.panelmate.cn](http://www.panelmate.cn)

E-mail: info@panelmate.cn

Contact: Mr. Fritz Jiang



Shanghai Panelmate Electronics Co.,Ltd. Is a domestic high technology enterprise, which is specializing in providing key control panel, hand-held pendant station, industrial keyboard, industrial touchscreen monitor, industrial panel PCs, industrial PCs,integrated cabinet with support arm system and automation control system. The products are widely used in printing and packaging industry, textile machinery, testing equipment, engineering machinery, high-speed rail, mint machinery, tobacco machinery, advanced CNC machine, industrial 4.0 and other related fields. PANELMATE is committed to providing key parts selection, circuit design, appearance design, sales and after-sales package solutions according to customer requirements.

PANELMATE has professional software and hardware development ability, The control panel can support EtherCAT, Modbus-TCP, CANBUS, PROFINET, Modbus-TCP, ADS and other Bus protocols. HPS can provide wireless and wired products with digital and analog value. In addition to the standard function of industrial display, Touchscreen monitor can also support CE systems based on X86 or ARM frameworks. The whole series of Industrial Panel PCs adopts module design. The main module ranges from low-power ATOM processor to high-performance 7th Gen. series, the standard product has 2 x Intel Gigabit LAN, 6 x RS232 serial ports, with rich interfaces and easy to use.

The full range of PANELMATE products can be customized according to customers need.

The range of products include:

- Embedded Industrial Touchscreen Monitors
- Embedded Industrial Panel PCs
- Economical Support Arm Operation Panel
- Support Arm Operation Panel
- Support Arm Panel PCs
- Stainless Steel Industrial Touchscreen Monitor
- Fanless iBOX
- Wall-mounted Edge Mini Box PCs
- KVM Extender
- Programmable Logic Controller, IO module
- UPS Power Supply
- Hand-held Pendant Station
- Control Panel
- Industrial Keyboard
- All-in-one Control Panel
- Integrated Cabinet
- Support Arm System
- Human Machine Interface Solution
- Other Customized Human Machine Product

IDD-LINK4 Application Solution



PANELMATE operation panel
Integrated IDD-LINK4

Key operation panel connects to EtherCAT communication

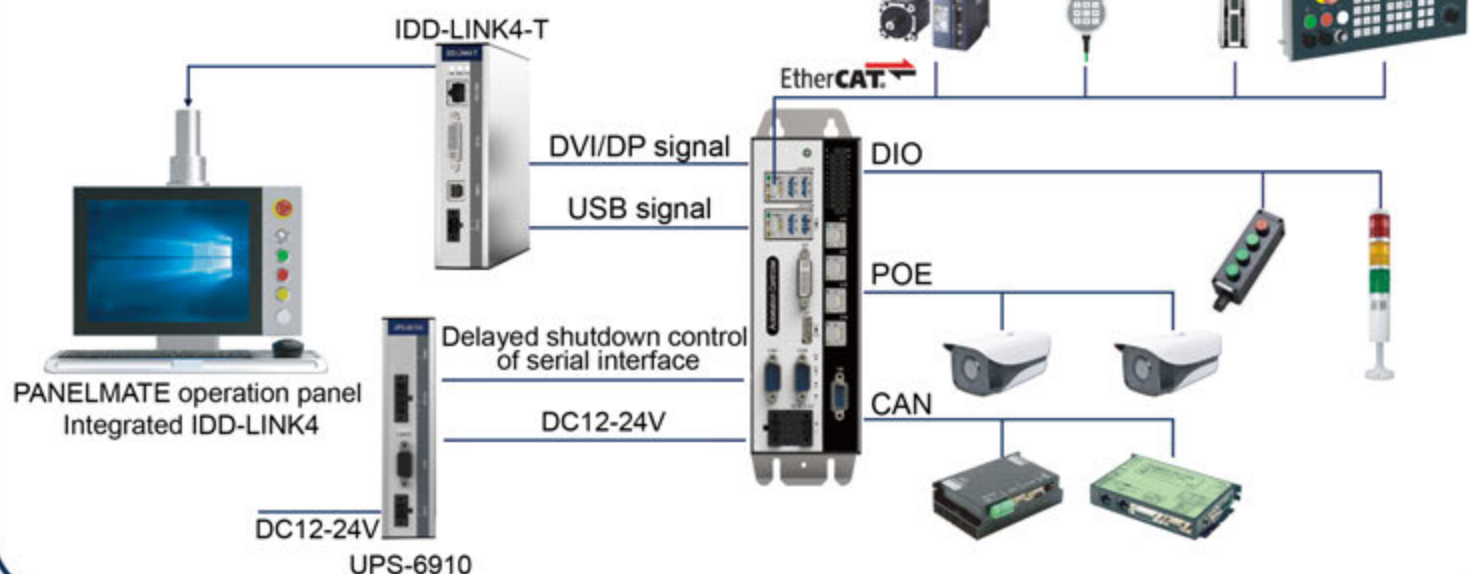
DVI+USB signal

IDD-LINK4 network connection
(The distance up to 100 meters, no signal attenuation)

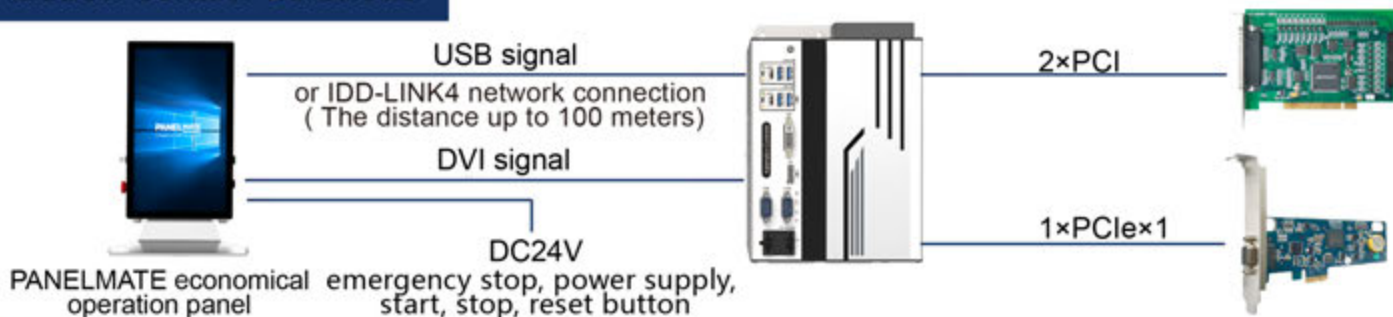
DC24V
Emergency stop



Machine Vision Solutions



Motion Control Solutions



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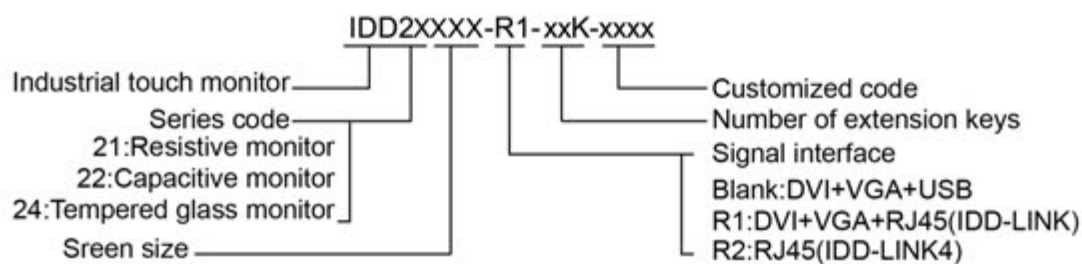
E-mail: info@panelmate.cn



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IDD2XXXX | Embedded Industrial Touch Monitor



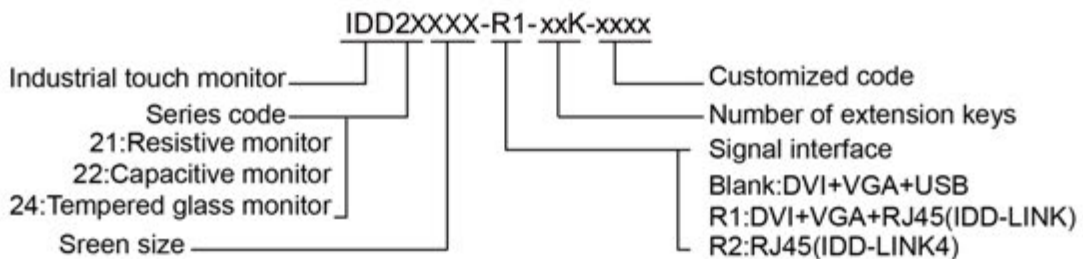
- 10 sizes: 10.1",10.4",12.1",15",15.6",17",18.5",19",21.5",24"
- Front panel & back cover : aluminum - magnesium alloy
- Protection level: front side / IP65, back cover / IP20
- Optional: Resistive Touch Screen,Capacitive Screen,Tempered Glass
- Support OS: WinXP, Win7, Win10, WinCE, Linux and etc.
- Including DVI, HDMI, VGA and other video ports, 2 x USB extendable port
- 9-36V power supply
- Optional R1 (IDD-LINK) long distance USB signal output, up to 50 meters
- Optional R2 (IDD-LINK4) video and USB are transmitted through a single CAT6 network cable,The transmission distance is up to 100m



Model	IDD2x101	IDD2x104	IDD2x121	IDD2x150	IDD2x156
Display type	10.1"	10.4"	12.1"	15"	15.6"
Resolution	1280x800	1024x768	1024x768	1024x768	1366x768
Open size (WxH),mm	248.5x185	253x211	295x248	342x285	385x253
Dimension (WxHxD),mm	256.5x193x54	264x221.6x46.8	306x259x57.5	353x296x57.5	396x263x62.5
Aspect ratio	16:10	4:3	4:3	4:3	16:9
Contrast ratio	800:1	500:1	800:1	800:1	500:1
Luminance,cd/m²	350	230	300	400	300
Power,w	10	10	10	15	20
Operating temperature, °C	-20~+70	-20~+70	-20~+70	-20~+70	0~+60
Storage temperature, °C	-30~+80	-20~+70	-30~+80	-30~+80	-20~+60
Net weight,kg	1.5	2.5	2.5	3.6	3.8
Model	IDD2x170	IDD2x185	IDD2x190	IDD2x215	IDD2x240
Display type	17"	18.5"	19"	21.5"	24"
Resolution	1280x1024	1366x768	1280x1024	1920x1080	1920x1080
Open size (WxH),mm	376x329	452x292	412x358	519x311	571x355
Dimension (WxHxD),mm	387x340x57.5	463x303x57.5	428x372x57.5	530.5x322.5x58	582x365.2x53.8
Aspect ratio	4:3	16:9	4:3	16:9	16:9
Contrast ratio	1000:1	1000:1	1000:1	3000:1	1000:1
Luminance,cd/m²	300	250	250	250	250
Power,w	20	25	20	20	20
Operating temperature, °C	0~+50	0~+50	0~+50	0~+50	0~+50
Storage temperature, °C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Net weight,kg	4.5	4.2	5.5	5.5	8.5



IDD2XXXX-R2 | Embedded Industrial Touch Monitor - IDD-LINK4



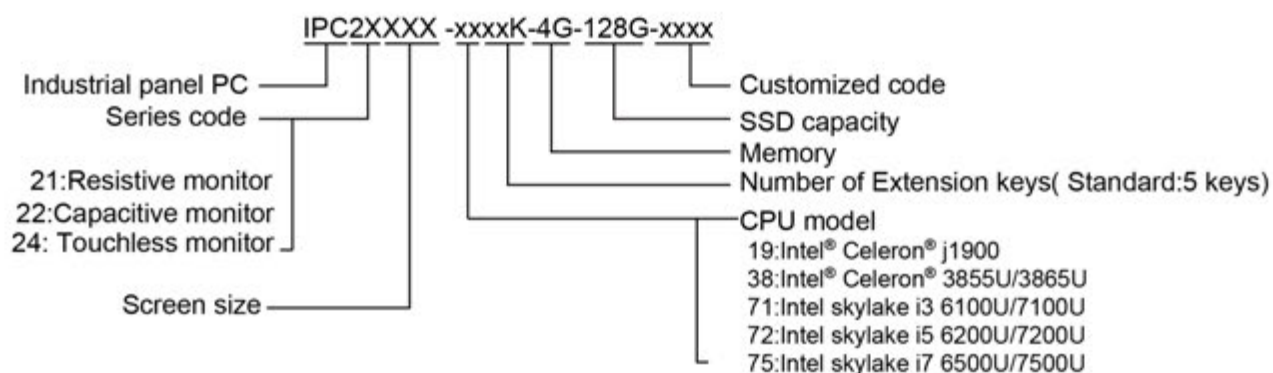
- 10 sizes: 10.1",10.4",12.1",15",15.6",17",18.5",19",21.5",24"
- Front panel & back cover : aluminum - magnesium alloy
- Protection level: front side / IP65, back cover / IP20
- Optional: Resistive Touch Screen,Capacitive Screen,Tempered Glass
- Support OS: WinXP, Win7, Win10, WinCE, Linux and etc.
- Including DVI, HDMI, VGA and other video ports, 2 x USB extendable port
- 9-36V power supply
- Optional R1 (IDD-LINK) long distance USB signal output, up to 50 meters
- Optional R2 (IDD-LINK4) video and USB are transmitted though a single CAT6 network cable,The transmission distance is up to 100m



Model	IDD2x101	IDD2x104	IDD2x121	IDD2x150	IDD2x156
Display type	10.1"	10.4"	12.1"	15"	15.6"
Resolution	1280x800	1024x768	1024x768	1024x768	1366x768
Open size (WxH),mm	248.5x185	253x211	295x248	342x285	385x253
Dimension (WxHxD),mm	256.5x193x54	264x221.6x46.8	306x259x57.5	353x296x57.5	396x263x62.5
Aspect ratio	16:10	4:3	4:3	4:3	16:9
Contrast ratio	800:1	500:1	800:1	800:1	500:1
Luminance,cd/m ²	350	230	300	400	300
Power,w	10	10	10	15	20
Operating temperature, °C	-20~+70	-20~+70	-20~+70	-20~+70	0~+60
Storage temperature, °C	-30~+80	-20~+70	-30~+80	-30~+80	-20~+60
Net weight,kg	1.5	2.5	2.5	3.6	3.8
Model	IDD2x170	IDD2x185	IDD2x190	IDD2x215	IDD2x240
Display type	17"	18.5"	19"	21.5"	24"
Resolution	1280x1024	1366x768	1280x1024	1920x1080	1920x1080
Open size (WxH),mm	376x329	452x292	412x358	519x311	571x355
Dimension (WxHxD),mm	387x340x57.5	463x303x57.5	428x372x57.5	530.5x322.5x58	582x365.2x53.8
Aspect ratio	4:3	16:9	4:3	16:9	16:9
Contrast ratio	1000:1	1000:1	1000:1	3000:1	1000:1
Luminance,cd/m ²	300	250	250	250	250
Power,w	20	25	20	20	20
Operating temperature, °C	0~+50	0~+50	0~+50	0~+50	0~+50
Storage temperature, °C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Net weight,kg	4.5	4.2	5.5	5.5	8.5



IPC2XXXX | Embedded Industrial Panel PC



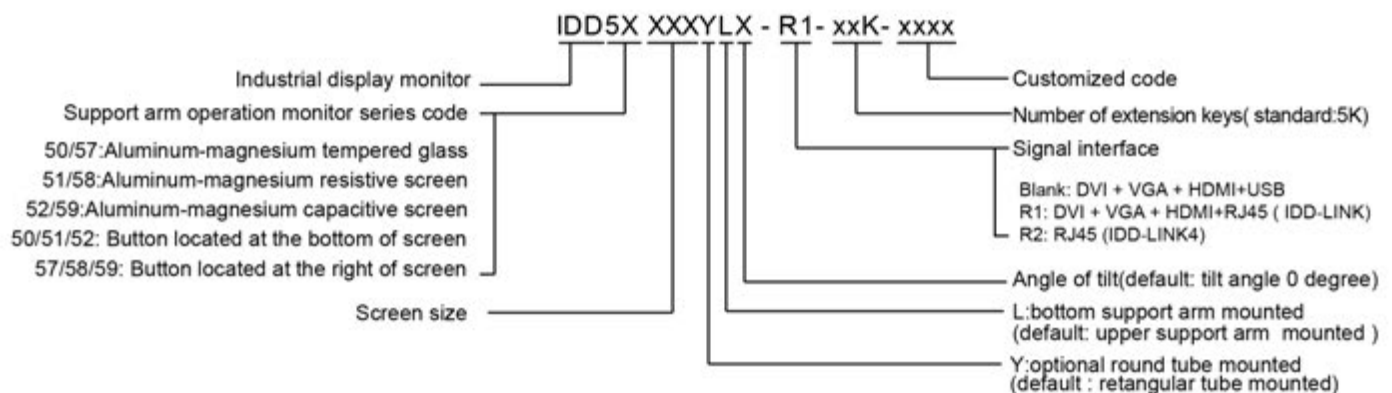
- 10 sizes: 10.1",10.4",12.1",15",15.6",17",18.5",19",21.5",24"
- Aluminum-magnesium alloy of front panel & back cover + large area aluminum fin structure with heat dissipation
- Protection level: front side : IP65, back cover: IP20
- Optional: Resistive Touch Screen,Capacitive Screen,Tempered Glass
- Support OS:Win7, WES7, Win10, Vxworks, Linux and etc.
- According to the configuration of the mainboard, it is equipped with 2 Intel Gigabit Ethernet cards and 4 USB ports
- Processor: Intel® Celeron® J1900/3855U/3865U and Intel skylake i3/i5/i7 multiple CPU options
- 9-36V power supply
- Extendable WIFI 4G/5G network
- Parameters can refer to iBOX series
- Customized LOGO



Model	IPC2x101	IPC2x104	IPC2x121	IPC2x150	IPC2x156
Display type	10.1"	10.4"	12.1"	15"	15.6"
Resolution	1280x800	800x600	1024x768	1024x768	1366x768
Open size (WxH),mm	248.5x185	253x211	295x248	342x285	385x253
Dimension (WxHxD),mm	256.5x193x54	264x221.6x46.8	306x259x57.5	353x296x57.5	396x263x62.5
Aspect ratio	16:10	4:3	4:3	4:3	16:9
Contrast ratio	800:1	500:1	800:1	800:1	500:1
Luminance,cd/m²	350	230	300	400	300
Power,w	10	25/40	25/40	30/50	35/55
Operating temperature, °C	-20~+70	-20~+70	-20~+70	-20~+70	0~+60
Storage temperature, °C	-30~+80	-20~+70	-30~+80	-30~+80	-20~+60
Net weight,kg	2.3	2.5	4	5.2	5.8
Model	IPC2x170	IPC2x185	IPC2x190	IPC2x215	IPC2x240
Display type	17"	18.5"	19"	21.5"	24"
Resolution	1280x1024	1366x768	1280x1024	1920x1080	1920x1080
Open size (WxH),mm	376x329	452x292	412x358	519x311	571x355
Dimension (WxHxD),mm	387x340x57.5	463x303x57.5	428x372x57.5	530.5x322.5x58	582x365.2x53.8
Aspect ratio	4:3	16:9	4:3	16:9	16:9
Contrast ratio	1000:1	1000:1	1000:1	3000:1	1000:1
Luminance,cd/m²	300	250	250	250	250
Power,w	35/55	40/60	40/60	40/60	40/60
Operating temperature, °C	0~+50	0~+50	0~+50	0~+50	0~+50
Storage temperature, °C	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Net weight,kg	6	6.3	6.3	8	8.5



IDD5XXXX | Industrial Support Arm Operation Control



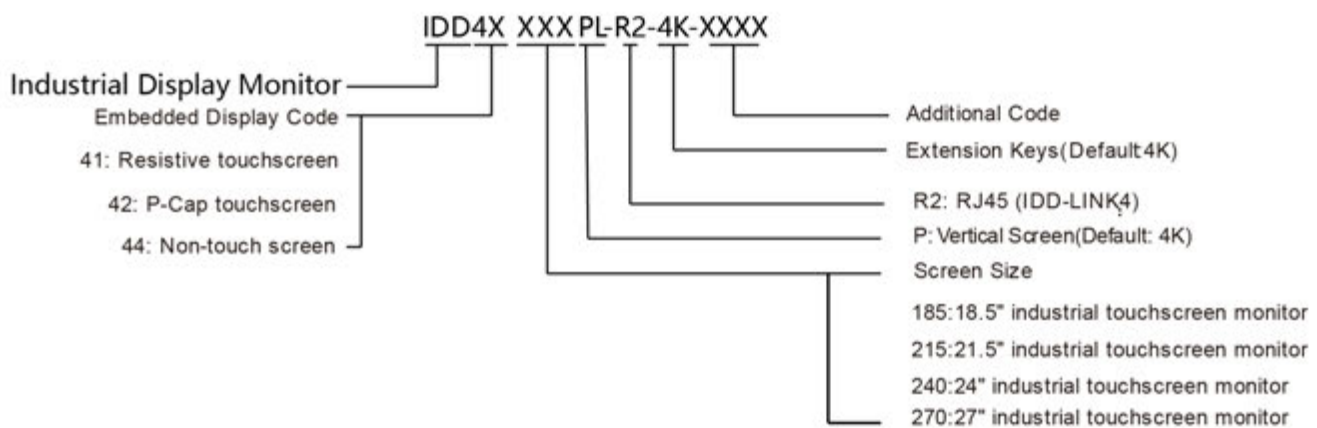
- 4 sizes: 15", 18.5",19",21.5"
- Aluminum-magnesium alloy house
- IP65 protection level
- Optional: Resistive Touch Screen,Capacitive Screen,Tempered Glass
- Support OS: WinXP, Win7, Win10, WinCE, Linux and etc.
- Including DVI, HDMI, VGA and other video ports, 2 x USB extendable port
- 24V power supply
- Optional R1 (IDD-link) long distance USB signal output, up to 50 meters
- Optional R2 (IDD-Link4) video and USB are transmitted though a single CAT6 network cable,
The transmission distance is up to 100m
- Customized LOGO and auxiliary buttons



Model	IDD5X150	IDD5X185
Screen size	15"	18.5"
Resolution	1024×768	1366×768
Mounting	4460 or 48 support arm system	4460 or 48 support arm system
Product size (w/o keyboard),mm	432.5×283.5×122.5	465.5×358.5×122.5
Contrast ratio	800:1	1000:1
Brightness,cd/m ²	400	250
Power,w	12	15
Operating temperature,°C	- 20~+70	0~+50
Storage temperature,°C	- 30~+80	- 20~+60
N.W(w/o keyboard & bracket),kg	7	8
Model	IDD5X190	IDD5X215
Screen size	19"	21.5"
Resolution	1280×1024	1920×1080
Mounting	4460 or 48 support arm system	4460 or 48 support arm system
Product size (w/o keyboard),mm	468×324×122.5	532×329.5×122.5
Contrast ratio	1000:1	3000:1
Brightness,cd/m ²	250	250
Power,w	15	20
Operating temperature,°C	0~+50	0~+50
Storage temperature,°C	- 20~+60	- 20~+60
N.W. (w/o keyboard & bracket), kg	8.5	9



IDD4XXXX | Arm Supported Mounting of Control Panel



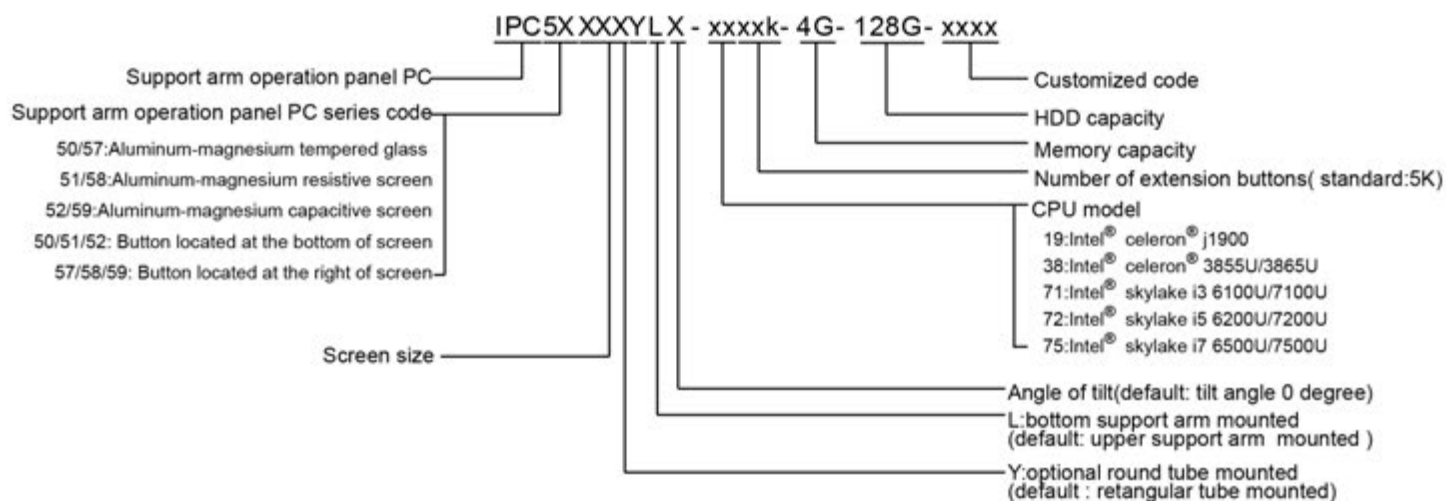
- Screen size: 21.5"
- Material: Aluminum & Magnesium Alloy
- IP Level: Front panel : IP65, Rear cover: 1P20
- Single point resistive touchscreen, Multi-point capacitive touchscreen, Tempered glass for option
- OS: Win XP,Win7,Win10,Win CE,LINUX
- Interface: DVI,HDMI,VGA,2xUSB expansion ports
- D24V power supply
- Optional R1(IDD-LINK), long distance USB output, up to 50m
- Optional R2(IDD-LINK4), video and USB transmission through a single CAT6 network cable, the transmission distance up to 100mh



Model	IDD40215L-4K/IDD41215L-4K/IDD42215L-4K	IDD40215PL-4K/IDD41215PL-4K/IDD42215PL-4K
Screen size	21.5"	21.5"
Resolution	1920×1080	1920×1080
Mounting	5065 or 4460 Arm Supported Mounting	5065 or 4460 Arm Supported Mounting
Product size (w/o KB),mm	517.6mmx309.5mmx20mm	309.5mmx517.6mmx20mm
Contrast ratio	3000:1	3000:1
Brightness, cd/m2	250	250
Power, w	20W	20W
Operating temp. °C	0~50°C	0~50°C
Storage temp. °C	-20~60°C	-20~60°C
N.W.(w/o KB), Kg	9kg	9kg



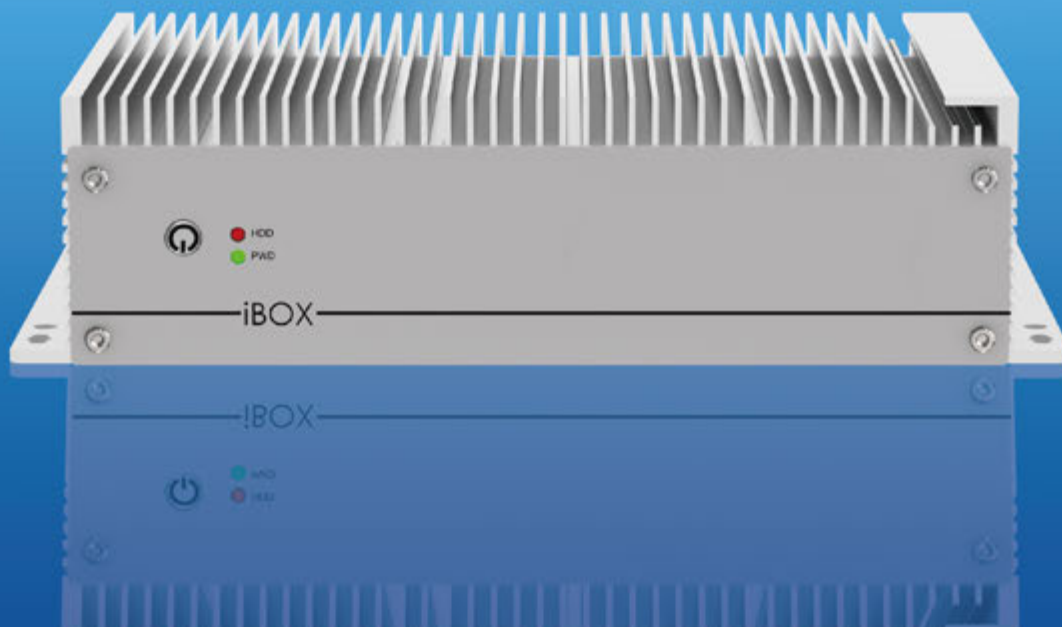
IPC5XXXX | Industrial Support Arm Operation Panel PC



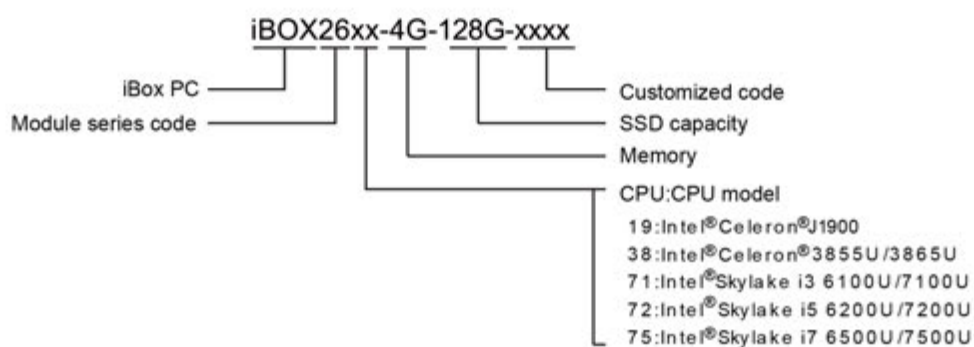
- 4 sizes:15",18.5",19",21.5"
- Aluminum-magnesium alloy house and back cover + large area aluminum fin structure with heat dissipation
- IP65 protection level
- Optional: Resistive Touch Screen,Capacitive Screen,Tempered Glass
- Support OS: WinXP, Win7, Win10, WinCE, Linux and etc.
- According to the configuration of the mainboard, it is equipped with 2 Intel Gigabit LAN and 4 USB ports
- Processor: Intel® Celeron® J1900/3855U/3865U and Intel® skylake i3/i5/i7 multiple CPU options
- 9-36V power supply
- Extendable WIFI 4G/5G network
- Parameters can refer to iBOX series products



Model	IPC5X150	IPC5X185
Screen size	15"	18.5"
Resolution	1024×768	1366×768
Mounting	4460 or 48 support arm system	4460 or 48 support arm system
Product size (w/o keyboard),mm	432.5×283.5×122.5	465.5×358.5×122.5
Contrast ratio	800:1	1000:1
Brightness,cd/m ²	400	250
Power,w	22	25
Operating temperature,°C	- 20~+70	0~+50
Storage temperature,°C	- 30~+80	- 20~+60
N.W. (w/o keyboard&bracket), kg	8	9
Model	IPC5X190	IPC5X215
Screen size	19"	21.5"
Resolution	1280×1024	1920×1080
Mounting	4460 or 48 support arm system	4460 or 48 support arm system
Product size (w/o keyboard),mm	468×324×122.5	532×329.5×122.5
Contrast ratio	1000:1	3000:1
Brightness,cd/m ²	250	250
Power,w	25	30
Operating temperature,°C	0~+50	0~+50
Storage temperature,°C	- 20~+60	- 20~+60°C
N.W. (w/o keyboard&bracket), kg	9.5	10



iBOX | Fanless iBox PC



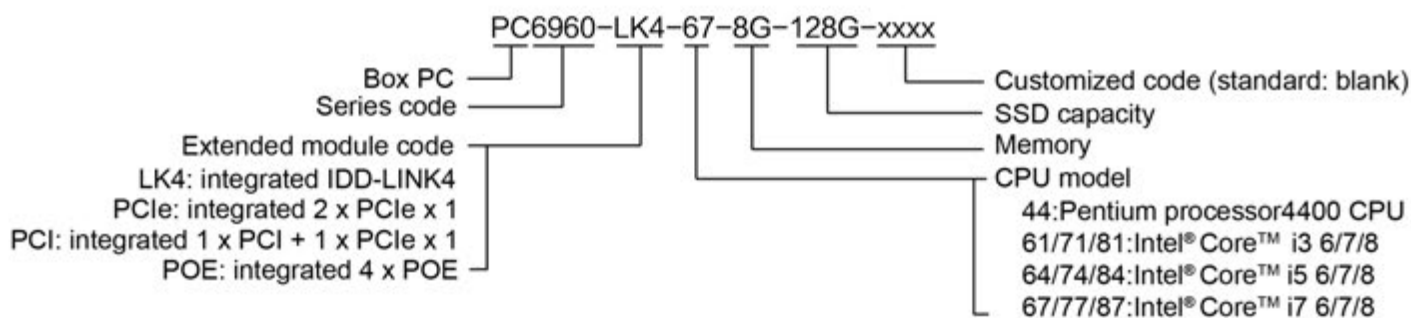
- Aluminum-magnesium alloy house+ large area aluminum fin structure with heat dissipation
- Support OS: winXP, win7, win10, winCE, linux and etc.
- According to the configuration of the mainboard, it is equipped with 2 x Gigabit LAN, and 6 x USB port
- Processor: Intel® Celeron® J1900 and Intel® Core™ i3/i5/i7/Celeron® multiple CPU options
- Extendable wifi 4G/5G network
- 9-36V power supply
- Wide temperature: -20~+70°C



Model	iBOX2619	iBOX2638	iBOX2671	iBOX2672	iBOX2675
CPU	J1900	3855U/3865U	I3 6100U/7100U	I5 6200U/7200U	I7 6500U/7500U
Frequency	Quad core 2.0 GHz	Dual core 1.6~1.8GHz	Dual core 2.3~2.4GHz	Dual core 2.3~2.5GHz	Dual core 2.5~2.7GHz
Memory	Max. support 8G	Max. support 16G	Max. support 16G	Max. support 16G	Max. support 16G
Storage	1×mSATA	1×mSATA	1×mSATA	1×mSATA	1×mSATA
Network	2×Intel 1211AT	2×Intel 1211AT	2×Intel 1211AT	2×Intel 1211AT	2×Intel 1211AT
Serial interface	RS232/485	RS232/485	RS232/485	RS232/485	RS232/485
USB	2×USB2.0+2×USB3.0	4×USB3.0	4×USB3.0	4×USB3.0	4×USB3.0
Expansion slot	WIFI 4G/5G	WIFI 4G/5G	WIFI 4G/5G	WIFI 4G/5G	WIFI 4G/5G
Input voltage	DC9~36V	DC9~36V	DC9~36V	DC9~36V	DC9~36V
Power(w)	10	15	15	25	25
N.W.,kg	1.5	1.8	1.8	1.8	1.8



PC6960 | Wall-mounted Box PC



- Compacted aluminum-magnesium alloy profile house, closed and dust-proof design
- Unilateral interface, DIN rail wall-mounted
- Intel i210 Gbe LAN supports EtherCAT and Jumbo Frames
- DVI+DP dual display interface, BIOS serial port setting RS232 or RS485
- Real-time optimization, more suitable for motion control
- Built-in USB2.0, pluggable software dongle to prevent data loss
- The network signal can be actively transmitted within a distance of 100 meters, no delay and signal fading
- Built-in expansion slot: 4*POE+16DIO+CAN
- Built-in expansion slot: 1*PCIe*1+2*PCI



Model	PC6960	PC6960-LK4	PC6960-POE	PC6960-PCI	PC6960-PCle
CPU	Pentium, Intel® Core™ 6th/7th/8th Gen Support up to 16G 1×mSATA+1×SATA 2×Intel i210 2×RS232(Optional RS485) 4×USB3.0+build-in 1 x USB2.0 Mini PCIe DC12-24V				
RAM					
Storage					
LAN					
Serial interface					
USB					
Expansion slot					
Input voltage					
IDD-LINK4	x	Incl. IDD-LINK4	x	x	
POE	x	x	Incl. POE	x	
PCle×1	x	x	x	1×PCle	
PCI	x	x	x	2×PCI	
Protection level	IP20				
Product dimension, mm	204×152×57.7	204×152×70.8	204×152×70.8	219×152×156.8	
Weight, kg	2.5	3	3	4	
Power consumption, w	Max.65	Max.75	Max.120	Max.75	



IDD-LINK4 | KVM Extender

In the field of automation, electromagnetic interference is ubiquitous, which will lead to the unstable operation of keyboard and mouse, HMI touch failure, screen with snow stripe or intermittent black screen by electromagnetic interference when USB and DVI signal exceed 10 meters or even 5 meters. IDD-Link4 is composed of Transmitting end IDD-LINK4-T and Receiving end IDD-LINK4-R, The transmission distance of USB AND DVI signals can be up to 100 meters without any delay.

- Compacted aluminum-magnesium alloy house, fully enclosed design to prevent dust ingress
- Unilateral interface with DIN rail wall-mounted
- DC 24V power supply, Industrial standard design
- Compatible with Beckhoff IDD-LINK4, Siemens IFP V2 and B&R SDL4
- Integrated into "PANELMATE" PC6960 Box PC
- Integrated into "PANELMATE" IDD2XXXX series embedded industrial touch monitor and "PANELMATE" IDD5XXXX series of industrial support arm operation panel



Model	IDD- LINK	IDD- LINK4	IDD- LINK5
Transmission signal	USB2.0	DVI+USB2.0	DVI+USB2.0+24V DC
Transmission distance,m	50	100	100
Auxiliary cable,mm	0.5m USB cable	0.5m USB cable 0.5m DVI cable	0.5m USB cable 0.5m DVI cable
Transmission speed,bit/s	12	100	100
Installation	DIN rail	DIN rail	DIN rail
Power supply, v	24V external power	24V external power	24V external power+POE
Protection level	IP20	IP20	IP20
Size,mm	144×105×35	144×105×35	144×105×35
Power,w	5	15	50



UPS-6910N | UPS Power Supply

All Box PCs can be configured with 24V UPS power supply, Box PCs with UPS-6960 can let the computer work for a period of time when the main power is turned off abnormally, During this period of time, it informs the Box PC to save the current status and data into the hard disk and other memory. You can set and control the duration of power supply to the Box PC by using the serial interface connected to the UPS.

UPS-6910n is a built-in battery type, suitable for small power consumption and current Box PC, The UPS-6910W can be connected to external batteries. Different batteries can be configured for different application. BAT-6910 matches up with USP-6910W

- Compacted aluminum – magnesium alloy profile house, closed dust-proof design
- Unilateral interface, DIN rail wall-mounted mode.
- 24V power supply, industrial standard design
- With serial port control, set UPS parameters and extend shutdown time
- BBAT-6910 of battery dimension: 156×105×107mm



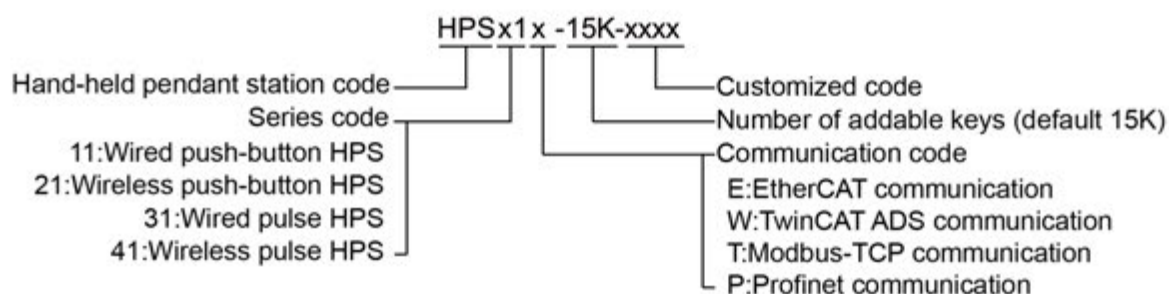
PX9400 | Programmable Logic Controller

PX9400 is an industrial controller based on Raspberry Pi Computer Module 4+, providing a high cost performance based controller CodeSys software PLC system, suitable for automation industry, power electronics, smart home and etc. In addition to using standard PLC architecture, we also support the development of non-standard products such as SOEM, you can use architectures such as DLIB, NODE-RED、 DASH and so on to build your own applications.

- All aluminum house, excellent EMC shielding capability
- Unilateral interface, DIN rail wall-mounted mode
- Compatible with 12-24V DC power supply
- -40°C to +85°C wide temperature range
- Built-in BMS system provides 30 seconds shutdown time by default
- Support for SoftMotion (CoDeSys 3.5.14.40)
- Support for Visualization (Chromium WebVisu)
- Support for Trace, breakpoints and flow control debug.



HPSX1X | Hand-held Pendant Station



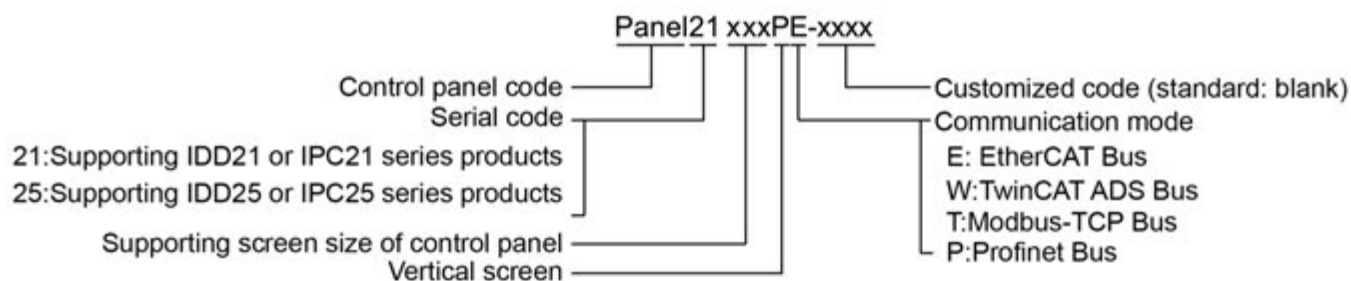
- Support multi-communication, including EtherCAT, Modbus-TCP, ADS and etc.
- Protection level: IP50
- Standard products are suitable for laser cutting equipment and other metal process industry
- Wireless hand-held pendant station can be rechargeable with lithium battery
- Wired hand-held pendant station with 24V power supply
- Wide working temperature: 0~+70°C
- To be customized production



Model	HPS-11E-15K	HPS-21W-15K	HPS-21W-24K	HPS-31E-15K	HPS-41E-15K
Product dimension,mm	L180×W88×H56	L177×W88×H56	L177×W88×H56	L177×W88×H56	L177×W88×H56
Fixed mode	Magnet + Holder	Magnet + Holder	Magnet + Holder	Magnet + Holdert	Magnet + Holder
Material	Engineer plastic	Engineer plastic	Engineer plastic	Engineer plastic	Engineer plastic
Magnification switch	21 positions	21 positions	no	2pcs axis selector + Pulse	2pcs axis selector + Pulse
Membrane keypad	15 keys	15 keys	24 keys	3 keys	3 keys
Emergency stop	Yes	None	None	Yes	None
Communication	EtherCAT bus	ADS protocol	ADS protocol	EtherCAT bus	EtherCAT bus
Connection	2.5m network cable	Wireless	Wireless	2.5m network cable	Wireless
Color	Grey	Grey	Grey	Grey	Grey
Operating voltage	DC 24V	DC3.7V	DC3.7V	DC24V	DC3.7V
Power supply	Input DC 24V	Rechargeable Li-ion battery	Rechargeable Li-ion battery	Input DC 24V	Input DC 24V
Operating Temperature,℃	-20~+60	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temperature,℃	-40~+75	-40~+75	-40~+75	-40~+75	-40~+75
Relative humidity	100%	100%	100%	100%	100%
Protection level	1P65	IP50	1P50	IP65	IP50
Button lifetime / 10K times	100	100	100	100	100



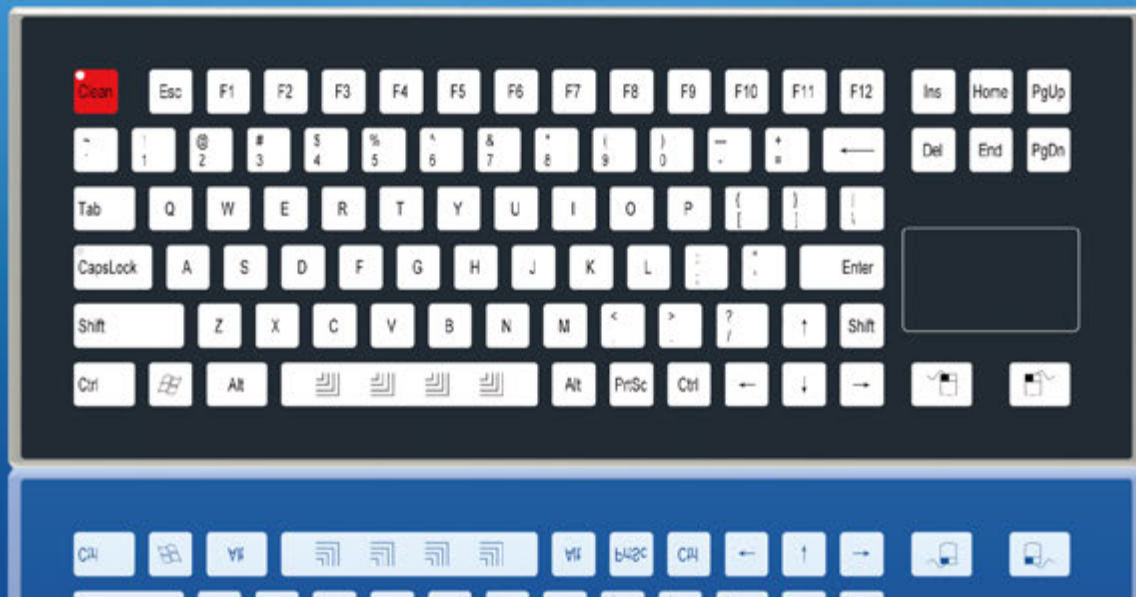
Panel2XXXX | Key Control Panel



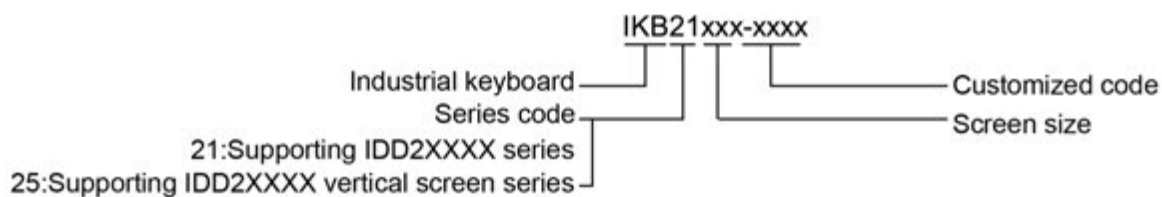
- Front panel: aluminum-magnesium alloy, Rear cover: stainless steel metal plate
- Protection level: front side: IP65, back cover: IP20
- Available for EtherCAT and Modbus-TCP bus
- Support up to 98 keys and 98 LEDs without any IO module
- The panel can be equipped with time control function
- 24V power supply
- To be customized products, including special bus requirements



Model	Panel21156	Panel21185	Panel22190E	Panel22190E-MP06	Panel22190EP-MP06
Product dimension,mm	395.8×166×95	462.4×176×95	427.4×173×66	427.4×173×66	427.4×173×66
Open Size,mm	385×156	452×166	412×156	412×156	412×156
Mounting	Embedded				
Material	Aluminum-magnesium alloy				
Magnification switch	2PCS	2PCS	2PCS	2PCS	2PCS
Key number	38PCS	38PCS	63PCS	63PCS	63PCS
Light indicator	All keys				
Pushbutton	Start, Stop, Reset			-	Rotary encoder switch
Emergency stop	Yes(2NC)				
Key switch	NONE	YES	1PC	1PC	1PC
Front USB	1PC	2PCS	2PCS	2PCS	2PCS
Bus Model	USB Bus	USB Bus	USB Bus	USB Bus	USB Bus
	EtherCAT	EtherCAT	EtherCAT	EtherCAT	EtherCAT
	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP
Work voltage	DC24V	DC24V	DC24V	DC24V	DC24V
Work temperature ,℃	-20~+60	-20~+60	- 10~+55	- 10~+55	- 10~+55
Storage temperature,℃	-40~+75	-40~+75	-20~+70	-20~+70	-20~+70
Protection level	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
	Black IP20	Black IP20	Black IP20	Black IP20	Black IP20
Key lifetime / 1 million time	100	100	100	100	100



IKB21XXX | Industrial Keyboard



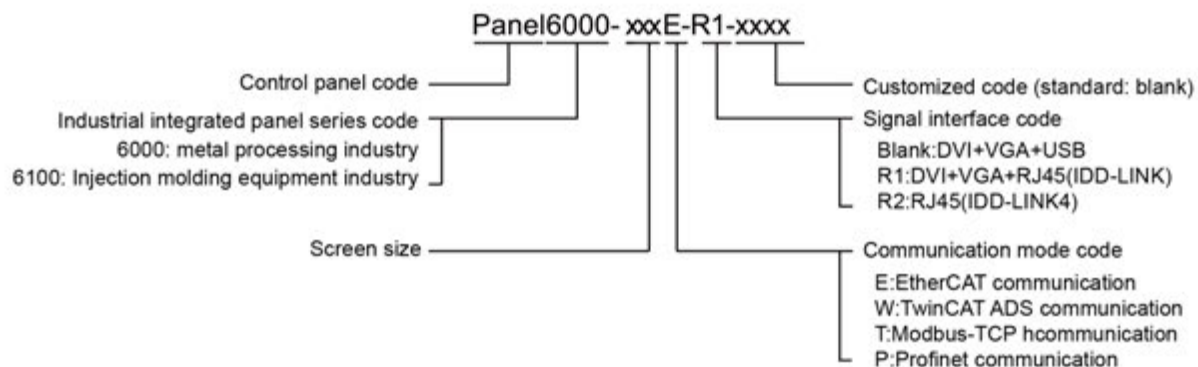
- 5 Sizes: 15", 15.6", 17", 18.5", 19"
- Material: aluminum-magnesium alloy housing, keeping the same style as the display monitor and control panel
- Protection level: front side / IP65, back cover / IP20
- Imported sensitive touch key, the key lifetime is 1 million times
- Support OS: WinXP, Win7, Win10 and etc.
- With touchpad
- USB interface
- Self-locked key, easier to clean the keyboard
- Be customized product according to customer requirements, including Logo, color and etc.



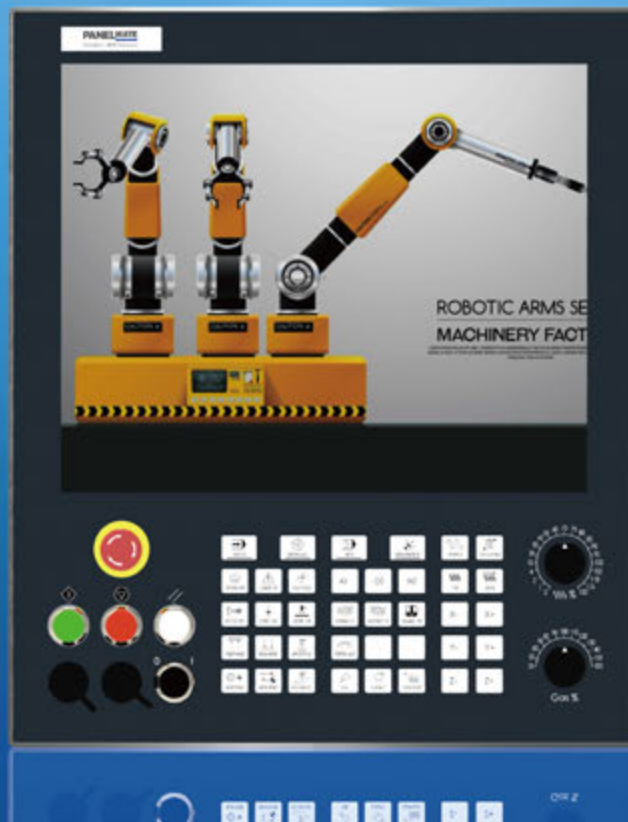
Model	IKB21150	IKB21156	IKB21170	IKB21185	IKB21190	IKB22190
Product dimension,mm	352.2×131×95	395.8×158×95	386.5×158×95	462.4×162×95	422.3×158×95	427.4×163.4×95
Open size,mm	342×121	385×148	376×148	452×152	412×148	412×148
Mounting	Embedded	Embedded	Embedded	Embedded	Embedded	Embedded
Material	Aluminum-magnesium alloy	Aluminum-magnesium alloy	Aluminum-magnesium alloy	Aluminum-magnesium alloy	Aluminum-magnesium alloy	Aluminum-magnesium alloy
Key number	86	86	86	106	86	86
Light indicator	Clean,Caps	Clean,Caps	Clean,Caps	Clean,Num, Caps,Scroll	Clean,Caps	Clean,Caps
Touch pad	Yes	Yes	Yes	Yes	Yes	Yes
Interface mode	USB	USB	USB	USB	USB	USB
Operating voltage	DC5V USB power supply	DC5V USB power supply	DC5V USB power supply	DC5V USB power supply	DC5V USB power supply	DC5V USB power supply
Operating Temperature,℃	0~+55	0~+55	0~+55	0~+55	0~+55	0~+55
Storage Temperature,℃	-40~+75	-40~+75	-40~+75	-40~+75	-40~+75	-40~+75
Protection level	Front / IP65	Front / IP65	Front / IP65	Front / IP65	Front / IP65	Front / IP65
	Back / IP20	Back / IP20	Back / IP20	Back / IP20	Back / IP20	Back / IP20
Key lifetime / 10K times	100	100	100	100	100	100



Panel6000 | Integrated Control Panel



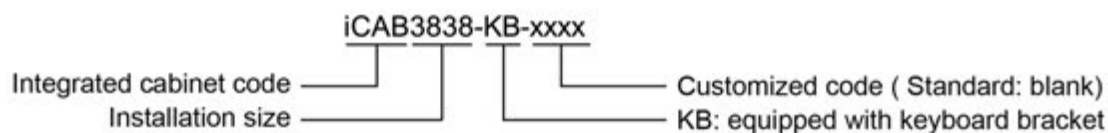
- Designed for different industries of integrated control panel, a total of 2 sizes: 15", 19"
- Material: front panel: aluminum-magnesium alloy panel, back cover: stainless steel of metal plate
- Protection level: front side / IP65, back cover / IP20
- Available for EtherCAT and Modbus-TCP bus
- Support up to 98 keys and 98 LEDs, IO module not required
- The panel can be equipped with time control function
- Resistive touch screen
- Touch display supports WinXP, Win7, Win10, WinCE, Linux and other operation systems
- Including DVI, HDMI, VGA and other video ports, 2 x USB extendable port
- 24V power supply
- Optional R1 (IDD-link) long distance USB signal output, up to 50 meters
- Optional R2 (IDD-Link4) video and USB are transmitted though a single CAT6 network cable, The transmission distance is up to 100m
- To be customized according to customer requirements, including special bus requirements.



Model	Panel6000-150	Panel6000-190
Screen size	15"	19"
Resolution	1024×768	1280×1024
Touch function	Resistive touch screen	Resistive touch screen
Open size,mm	L434xW365	L507xW438
Product dimension,mm	L450xW381xH60	L523xW454xH60
Mounting	Embedded	Embedded
Material	Panel: aluminum & magnesium alloy, Back cover: stainless steel	
Magnificaiton switch	3	2
Key number	26 pcs bus keys	38 pcs bus keys
Light indicator	All keys	All keys
Button function	Power, Start, Stop	Start, Stop, Reset
Emergency stop switch	Yes(2NC)	Yes(2NC)
Key switch	No	Yes
Front USB	1	2
Bus mode	USB bus	USB bus
	Ethercat bus	Ethercat bus
	Modbus-TCP bus	Modbus-TCPbus
Operating voltage	DC24V	DC24V
Power,w	20	25
Operating temperature,°C	-20~+70	-0~+50
Storage temperature,°C	-30~+80	-20~+60
N.W.,kg	7	11.5



iCAB | Integrated Cabinet



Model	iCAB3838	iCAB3838- KB	iCAB4646	iCAB4646- KB
Open size at the side of monitor,mm	L380×H380×D90	L380×H380×D90	L460×H460×D120	L460×H460×D120
Keyboard bracket	None	Yes	None	Yes
Open size at the side of keyboard, mm	None	L380×H140×D90	None	L460×H180×D120
Arm support system	4460 series	4460 series	5575 series	5575 series

- Engineering structure design
- Touchscreen monitor, keyboard and control panel can be integrated
- With or W/O keyboard option
- Mounted screen size up to 19 inch
- Customized LOGO



Arm Support System: 4460 series



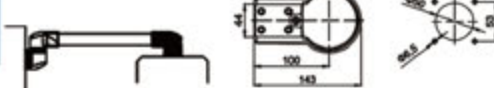
Box Connector

Order Nr. 4 40.6.090.00
Weight: 0.9 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



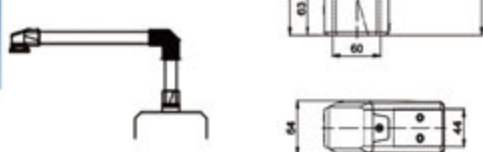
90° Box Connector

Order Nr. 440.6.150.00
Weight: 1.1 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



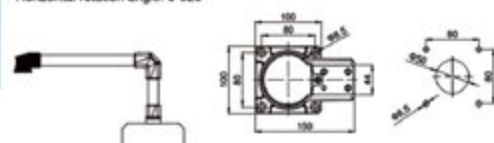
90° Corner

Order Nr. 440.6.100.00
Weight: 1.06 kg
Material: die casting aluminum alloy



Top Base

Order Nr. 440.6.120.00
Weight: 1.13 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



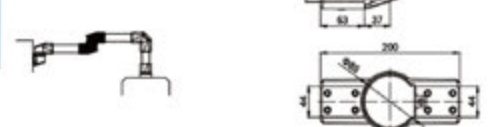
Horizontal Wall Base

Order Nr. 440.6.110.00
Weight: 1.36 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



Pipe Connector

Order Nr. 440.6.130.00
Weight: 1.52 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



Rotatable Box Base

Order Nr. 440.6.160.00
Weight: 1.36 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



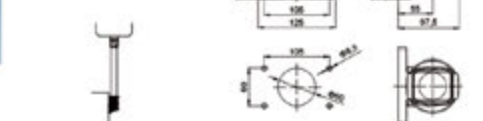
15° Beveled Connector

Order Nr. 440.6.200.00
Weight: 0.35 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



Vertical Wall Base

Order Nr. 440.6.170.00
Weight: 1.17 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



Base

Order Nr. 440.6.140.00
Weight: 0.5 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



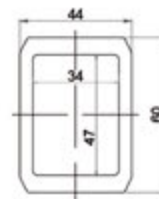
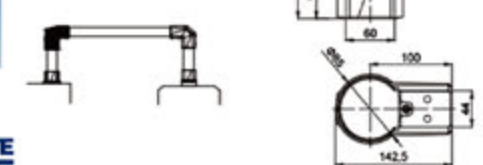
Rotatable Base

Order Nr. 440.6.180.00
Weight: 1.17 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



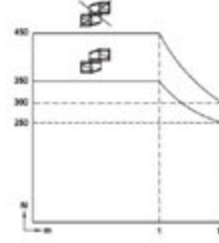
Rotatable 90° Corner

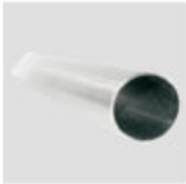
Order Nr. 440.6.190.00
Weight: 1.32 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



4460 aluminum tube specification

Order Nr.	Length
440.6.025.70	0.25m
440.6.050.70	0.5m
440.6.100.70	1m
440.6.150.70	1.5m
440.6.200.70	2m



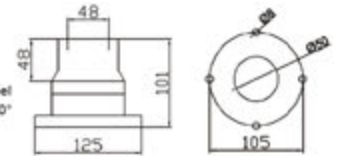


Connecting Pipe
Material: stainless steel

48 series specification	
Length	Order Nr.
0.25m	48-025
0.5m	48-050
0.75m	48-075
1m	48-100
1.25m	48-125

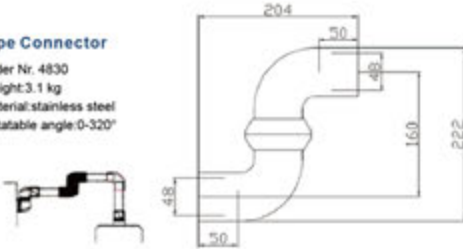


Base
Order Nr. 4880
Weight:3.1 kg
Material:stainless steel
Rotatable angle:0-320°



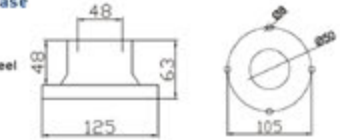
Pipe Connector

Order Nr. 4830
Weight: 3.1 kg
Material: stainless steel
Rotatable angle: 0-320°



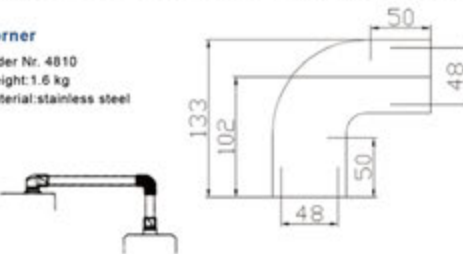
External Fixed Base

Order Nr. 4840
Weight: 2.1 kg
Material: stainless steel



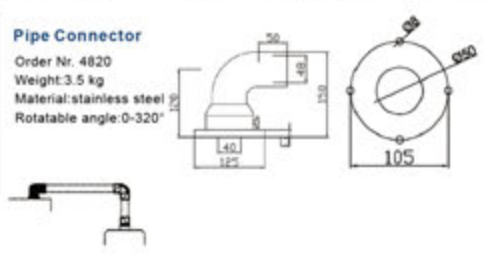
Corner

Order Nr. 4810
Weight: 1.6 kg
Material: stainless steel



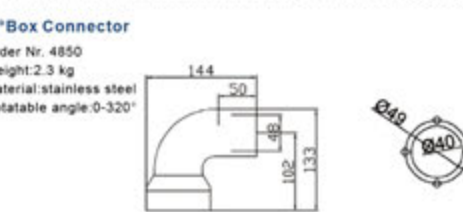
Pipe Connector

Order Nr. 4820
Weight: 3.5 kg
Material: stainless steel
Rotatable angle: 0-320°



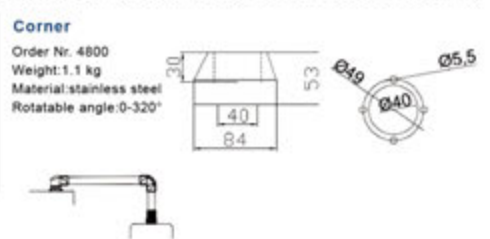
90° Box Connector

Order Nr. 4850
Weight: 2.3 kg
Material: stainless steel
Rotatable angle: 0-320°



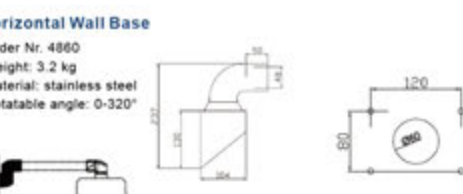
Corner

Order Nr. 4800
Weight: 1.1 kg
Material: stainless steel
Rotatable angle: 0-320°



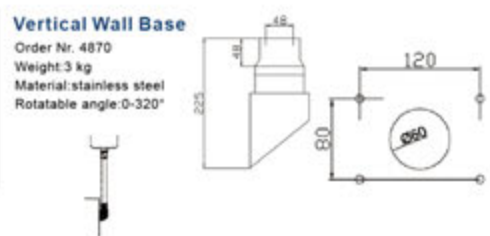
Horizontal Wall Base

Order Nr. 4860
Weight: 3.2 kg
Material: stainless steel
Rotatable angle: 0-320°



Vertical Wall Base

Order Nr. 4870
Weight: 3 kg
Material: stainless steel
Rotatable angle: 0-320°

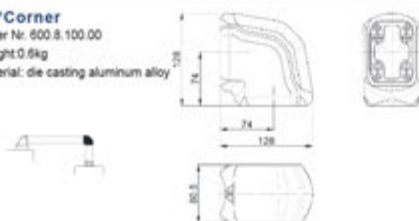


Arm Support System: 6085 series



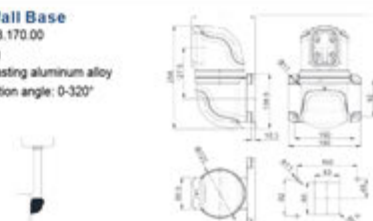
90° Corner

Order Nr. 600.8.100.00
Weight: 0.6kg
Material: die casting aluminum alloy



Vertical Wall Base

Order Nr. 600.8.170.00
Weight: 3.24kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



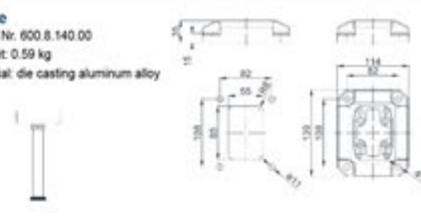
Top Base

Order Nr. 600.8.120.00
Weight: 2.63 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



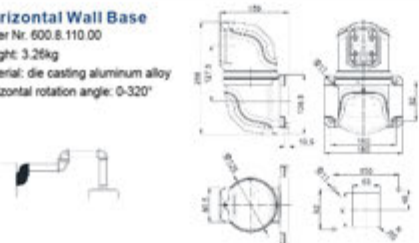
Base

Order Nr. 600.8.140.00
Weight: 0.59 kg
Material: die casting aluminum alloy



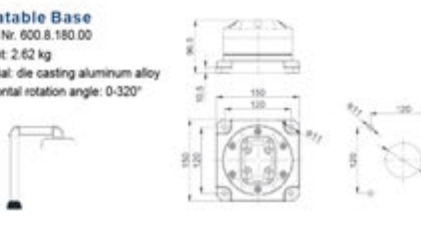
Horizontal Wall Base

Order Nr. 600.8.110.00
Weight: 3.26kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



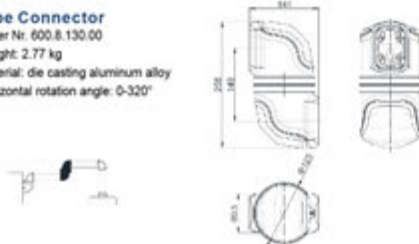
Rotatable Base

Order Nr. 600.8.180.00
Weight: 2.62 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



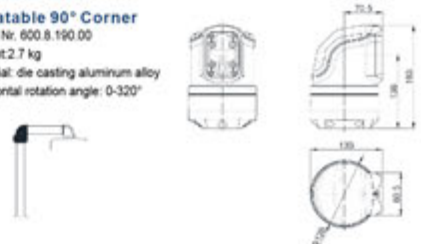
Pipe Connector

Order Nr. 600.8.130.00
Weight: 2.77 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



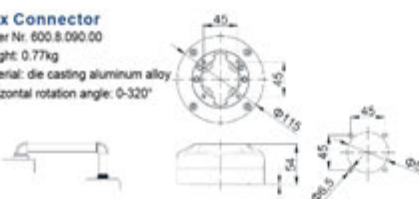
Rotatable 90° Corner

Order Nr. 600.8.190.00
Weight: 2.7 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



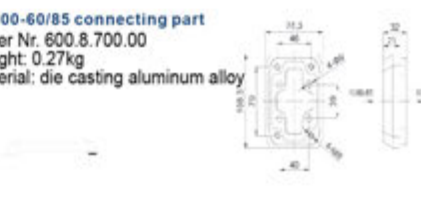
Box Connector

Order Nr. 600.8.090.00
Weight: 0.77kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



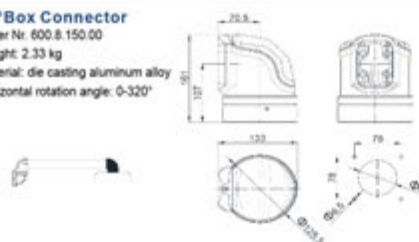
70/100-60/85 connecting part

Order Nr. 600.8.700.00
Weight: 0.27kg
Material: die casting aluminum alloy



90° Box Connector

Order Nr. 600.8.150.00
Weight: 2.33 kg
Material: die casting aluminum alloy
Horizontal rotation angle: 0-320°



60-85 Aluminum pipe



60-85 Horizontal Pipe Installation
Before connecting the aluminum pipe to supported arm joint, tighten 2 round-head adjusting screws on the two ends of the aluminum pipe (as shown picture)

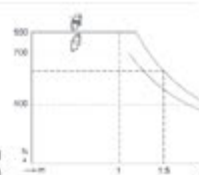
According to the figure, adjust 2 round-head screws at the same time, and release a certain distance (1-5mm) according to the different bearing capacity of the arm support system, so that the connecting pipe of the horizontal section can be lifted up by a certain angle.



Adjust the screw



Adjust the levelness of connecting tube



60-85 aluminum pipe specification (Equipped with 60-85 arm support system)	
Length	Order Nr.
0.25m	600.8.025.70
0.5m	600.8.050.70
1m	600.8.100.70
1.5m	600.8.150.70
2m	600.8.200.70



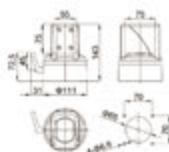
Box Connector

Order Nr. 550.7.090.00

Weight: 1.8kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



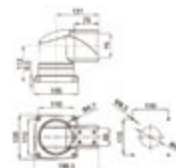
Top Base

Order Nr. 550.7.120.00

Weight: 2.7kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



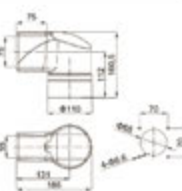
90° Box Connector

Order Nr. 550.7.100.00

Weight: 2.6 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



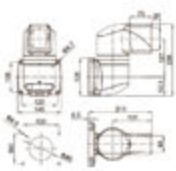
Horizontal Wall Base

Order Nr. 550.7.130.00

Weight: 3.3 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



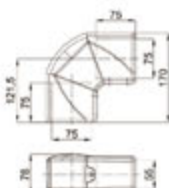
90° Corner

Order Nr. 550.7.150.00

Weight: 1.3 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



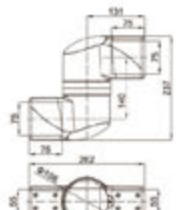
Pipe Connector

Order Nr. 550.7.110.00

Weight: 3.4 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



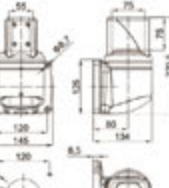
Vertical Wall Base

Order Nr. 550.7.170.00

Weight: 2.6 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



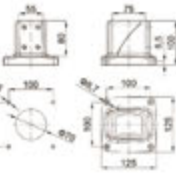
Base

Order Nr. 550.7.140.00

Weight: 0.83 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



Rotatable Base

Order Nr. 550.7.180.00

Weight: 2.0 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



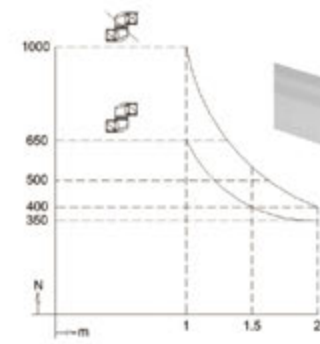
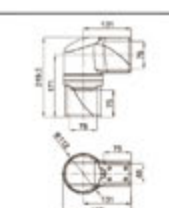
Rotatable 90° Corner

Order Nr. 550.7.190.00

Weight: 2.7 kg

Material: die casting aluminum alloy

Horizontal rotation angle: 0-320°



Bearing force diagram of 5575 series of medium arm support system

5575 aluminum pipe specification (Equipped with 5575 medium arm support system)	
Length	Order Nr.
0.25m	550.7.025.70
0.5m	550.7.050.70
1m	550.7.100.70
1.5m	550.7.150.70
2m	550.7.200.70