



炎兴自动化

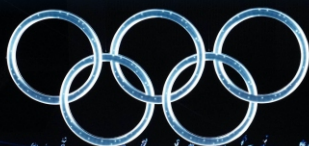
# xScene Motion

CHENGDU YANXING AUTOMATION TECHNOLOGY CO., LTD

© Theater/Show/Mobile performance/Control system Expert

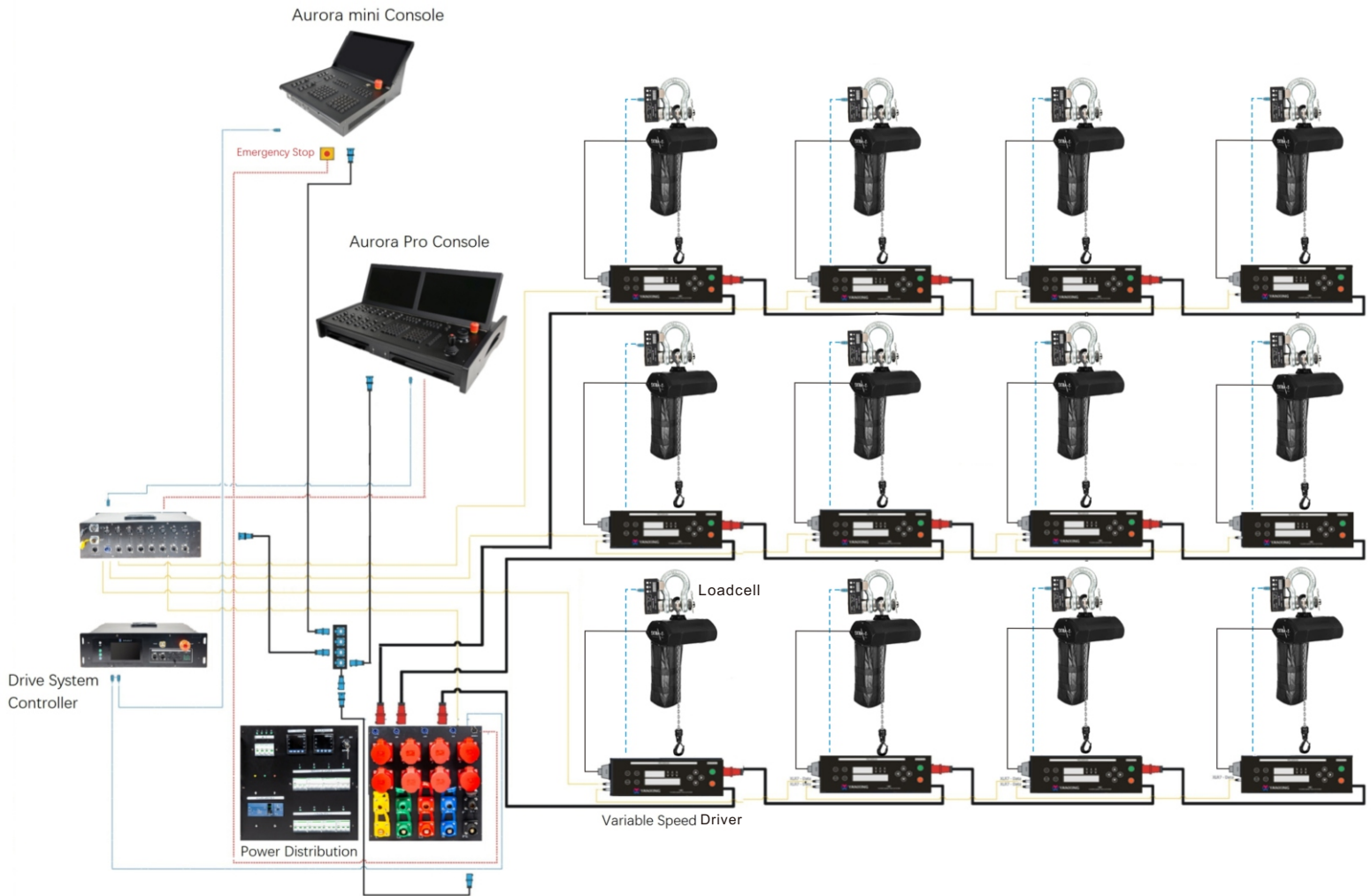
## IAC Variable Speed Chain Hoist Control Family Products

Consists of IAC 1 series, 3 series, 5 series, 7 series driver products,  
PDES system cabinet and master control



Winter Olympics ground stage machinery control system supplier

# IAC system diagram >>>





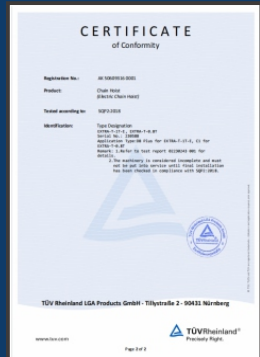
## The control system is TUV Rheinland SIL3 certified



D8



D8+



C1

## Electric chain hoist obtained TUV Rheinland D8, D8+, C1 certification

# IAC drive family >>>



## 1 Series Driver

## 3 Series Driver

### Software Compatibility

Control System Aurora Pro Console, Aurora mini Console, Goatshow Software

### Electrical

Rated Voltage	3-Phase 400V	
Power Supply Type	IEC 60309 "Ceeform" 32A 400V	
Support Motor	Asynchronous motor	
Closed Loop Function	-	Support
Power Range	0.75kw-3kw	0.75kw-15kw
Holding Brake Output	230VAC and 400VAC braking outputs	
Built-in Inverter	-	High performed vector inverter
Zero Speed Hover	-	Support
Positioning Accuracy	±3mm	±1mm
Connections	CAN Connections	
Security Protection	Support hard limit and soft limit function	
Local Control	Standard local control panel and LED display for parameter setting, modification and monitoring	
Remote Control	Support remote parameter setting and modification, and parameter set download	
Encoder	Single encoder interface with differential incremental encoder	
Topology	Supports power and communication daisy-chain connections	

### Interface

Motor Interface	1 * heavy-duty motor connector (including motor, brake, limit and encoder)	
Network Interface	2 * XLR-3 on connector panel	
Load cell Interface	Support	Support

### Shape

	3kw 320mm*137mm*180mm	3kw 380mm*138mm*228mm
Housing	Matte black powder coated finish	
Weight	3kw 5kg	3kw 8kg

### Characteristics

Protection Level	IP20	
Operating Temperature	0 to 40°C	
Storage Environment	Temperature: -5 to 60 °C, Relative Humidity: 20%-75% Non-condensing	

## 5 Series Driver

## 7 Series Driver

### Software Compatibility

Control System Aurora Pro Console, Aurora mini Console, Goatshow Software

### Electrical

Rated Voltage 3-Phase 400V

Power Supply Type IEC 60309 "Ceeform" 32A 400V

Support Motor Asynchronous motor Asynchronous motor and servo motor

Closed Loop Function Support

Power Range 0.75kw-11kw 0.75kw-15kw

Holding Brake Output 230VAC and 400VAC braking outputs 230VAC and 400VAC braking outputs 24VDC servo braking output

Built-in Inverter High performance vector inverter High performance servo type inverter

Zero Speed Hover Support

Positioning Accuracy  $\pm 1\text{mm}$

Connections ECAT

Synchronization Control Support position mode and cycle position mode

Security Protection Support hard limit and soft limit function Support safety limit, hard limit and soft limit function

Local Control Local control panel and LED display are standardly equipped to carry out parameter setting, modification, and monitoring

Remote Control Parameter setting, parameter modification, parameter-set downloading can all be done remotely

Encoder Single encoder interface, Dual encoder interface, for differential incremental encoder for differential incremental encoder and absolute value encoder

Topology Supports power and communication daisy-chain connections

EU LTV and EMC Directive - Conformity

### Interface

Motor Interface 1 \* heavy-duty motor connector (including motor, brake, limit and encoder)

Network Interface 2 \* ECAT

Load Cell Interface Support Support

Configuration Interface Support Support

### Shape

Dimension (L\*W\*H) 3kw 420mm\*147mm\*230mm 3kw 485mm\*160mm\*265mm

7.5kw 568mm\*282mm\*268mm 7.5kw 560mm\*175mm\*286mm

11kw 568mm\*302mm\*324mm 15kw 590mm\*266mm\*325mm

Housing Matte black powder coated finish

Weight 3kw 5kg 3kw 8kg

7.5kw 20kg 7.5kw 17kg

11kw 30kg 15kw 34kg

### Characteristics

Protection Level IP20

Operating Temperature 0 to 40°C

Storage Environment Temperature: -5 to 60 °C, Relative Humidity: 20-75 Non-condensing

# PDES system cabinet >>>



## ECAT Interface

## CAN Interface

Function		
Emergency Stop	<p>Class 0 and class 1 emergency stop for:</p> <ol style="list-style-type: none"> <li>1. Local emergency stop;</li> <li>2. Emergency stop link extension ;</li> <li>3. SIL3 safety relay emergency stop</li> </ol> <p>Class 0 and class 1 emergency stop for:</p> <ol style="list-style-type: none"> <li>1. Local emergency stop;</li> <li>2. Emergency stop link extension ;</li> </ol>	
Leakage Detection	Built-in adjustable RCD leakage protection, support bypass function	
Breaking Capacity	Rated 200A circuit breaker, 50kA breaking capacity	
Remote Power-down Reset	Support	
Local Display	5" LCD display	LED display
Local Reset	Support	
Three-phase Power Output	Provide eight 32A three-phase power outputs (with indication), each with independent output circuit breakers	
Two-phase Power Output	Provide 4 channels of 10A two-phase power output (with indication)	
IAC Driver Support	Supports up to 128 Series 5 and Series 7 IAC drivers	Supports up to 64 Series 1 and Series 3 IAC drivers
Interface Configuration	Support 100M Ethernet and fiber optic communication, support 7 ECAT switch interfaces, support up to 128 Series 5 and Series 7 IAC drivers per channel	Support 8 CAN-HUB interfaces, each supporting a maximum of 8 Series 1 and Series 3 drivers
FSDI Input	Support 16-channel live FSDI input	-
Network Cascade	Supports networking and cascading of up to 16 PDES cabinets	Supports networking and cascading of up to 4 PDES cabinets
Parameters		
Voltage	400V ±10, 200A	
Interface	8 * IEC 60309 "Ceeform" 32A 400V	
Dimension (L*W*H)	600mm*850mm*980mm	
Weight	105kg	102kg



## ECAT Redundant Ring Network Interface

Function	
Emergency Stop	Class 0 and class 1 emergency stop for: 1. Local emergency stop; 2. Emergency stop link extension ; 3. SIL3 safety relay emergency stop
Electric Leakage Detection	Built-in adjustable RCD leakage protection, support bypass function
Breaking Capacity	Rated 200A circuit breaker, 50kA breaking capacity
Remote Power Failure Reset	Support
Local Display	5 inch LCD display
Local Reset	Support
Three-phase Power Output	Provides 8 ways of 32A three-phase power outputs (with indication), each has independent output circuit breaker
Two-phase power output	Provides 4 ways of 10A two-phase power outputs (with indication)
Number of Drivers Supported	up to 80 (5 series and 7 series IAC drivers)
Interface Configuration	Support 100M Ethernet and optical fiber communication, support four ECAT ring network interface, each supports up to 20 IAC drivers of 5 series and 7 series and the ECAT interfaces supports fiber mode.
FSDI Input	up to 16 (on-site FSDI inputs)
Networking Cascade	up to 16 (PDES cabinets of networking and cascading)

# Aurora series console >>>



## Aurora Pro

## Aurora mini

### Function

Emergency Stop	Class 0 and class 1 emergency stop for Local Emergency stop	
User Permission Setting	Support	
Computer Configuration	Built-in high-performanced ADVANTECH Industrial computer	
Screen Configuration	Dual 17.3" touch monitors	Single 17.3" touch screen monitor
Power Supply	Built-in power filter, configured with UPS function (shut down the computer in 3 minutes when the battery is low)	
Connections	100M Ethernet and fiber optic communication	100M Ethernet
DMX512 Communication	Support	
LTC Time Code	Support	-
Cascade Mode	Support maximum up to 2	-
Hot Standby Mode	Support	-
IAC Driver Support	Support all series of IAC drivers: 1 series; 3 series; 5 series; 7 series	
Hotkeys and Channels	Hotkey *158 Channel group *6 Scene *unlimited	Hotkey *134 Channel group *2 Scene *unlimited
Number of Supported Drivers	2048	64
Programming Method	Tabular programming, object-based programming	Form-based programming
3D Display	Support	-
Program Download	With the capacity of updating by batch downloading, maintaining the parameter of drivers directly, and building-in parameter-set	

### Parameters

Voltage	100-230V AC, 47-63Hz	
Interface	Control channel *6; Control command shortcut keyboard *2; Optical interface*2; Ethernet interface *2; DMX512 interface*1; LTC interface *1; USB expansion *2; Gooseneck light *1; Standard 61-keykeyboard *1	Control channel *2; Control command shortcut keyboard *2; Ethernet interface *2; DMX512 interface*1; USB expansion *2; Gooseneck light *1
Dimension (L*W*H)	890mm*670mm*230mm	440 mm *560 mm *330 mm
Weight	40kg	15kg

# xScene Motion



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