

Macho Hoist Control System

MACHO HCS 280C 21.5" Touchscreen
Hoist Control Console



2011
香港工商業獎
HONG KONG AWARDS
FOR INDUSTRIES

機器及機械工具設計獎
MACHINERY AND MACHINE
TOOLS DESIGN AWARD

Winning product:

Macho Hoist Controller
麥哲歐舞動控制台

HCS 280C- Front View



Rear View



HCS-280C is a member of Macho Hoist Control System designed for TV studios and medium to large sized theatres. The HCS-280C is a countertop console which controls up to 255 motorized winches including a number of variable speed motorized winches. The LCD touch screen allows any user to familiarize to it quickly. It also uses Motion-Status Arithmetic Engine (MSAE) to intelligently provide precise controlled response times. The flexible grouping control caters to the need for automatic movement and group assignment, label, or edit. The multi-level login provides administrator and operator to have different access to the system which also prevents unauthorized use.



Mechanical Data

Construction	Extruded aluminum top and bottom edges together with Light weight rigid aluminum alloy sheets construction.
Paint / finish	Dark grey epoxy-polyester powder paint
Touchscreen	Adjustable tilting view angle

Electrical Data

Power input	200V~240VAC; ON/OFF switch and START press button
Frequency	50 - 60 Hz
Motors	Max. 255 motors per system
Ethernet port	RJ45 socket
Emergency-stop	Local: front panel; remote: female XLR 3-pin socket
Cooling fan	Yes

Display Data

Screen	21.5", 16:9 TFT resistive touchscreen, adjustable angle
Resolution	1920 X 1080
Contrast	1000 : 1
Viewing angles	H 170° / V 160°

Operational Data

Touch screen	Full functions operation
Keyboard	14 GROUP buttons for grouping shortcut with back lights; 0-9 numeric buttons with back lights; Cursor buttons with back lights; CLEAR button with back light; ENTER button with back light; Joystick for UP and DOWN hoist movement control; ON/OFF key for keyboard lock; E-stop button for emergency power cut off to all motors connected to the system.
Network	Ethernet connection available
System security	Two levels password access to the system: 1) administrator 2) operator

Product Features

Control motions	Up, down and emergency stop
Safety alarms	* Position monitoring * Emergency stop * Over current * Over weight * Over travel limit * Logical upper/lower limits * Physical upper/lower limits * Slack wires
System Control	1) Administrator: * Create & edit hoist system design * Account management for Operator level * Preset hoist system status 2) Operator: * Control the preset system
Hoist Control	1) Individual 2) Groups * Group assign or edit * Group labeling * Automatic movement

Installation Data

Mounting method	Countertop console, no mounting required
Power connection	Connect to a 220VAC wall socket with IEC power cord

Environmental Data

Operation humidity	5-95% non-condensing
Operation temperature	0-40°C (32-104°F)
Installation place	indoor

Standards

CE LVD directives and standards complied	
CE EMC directives and standards complied	

Physical Data

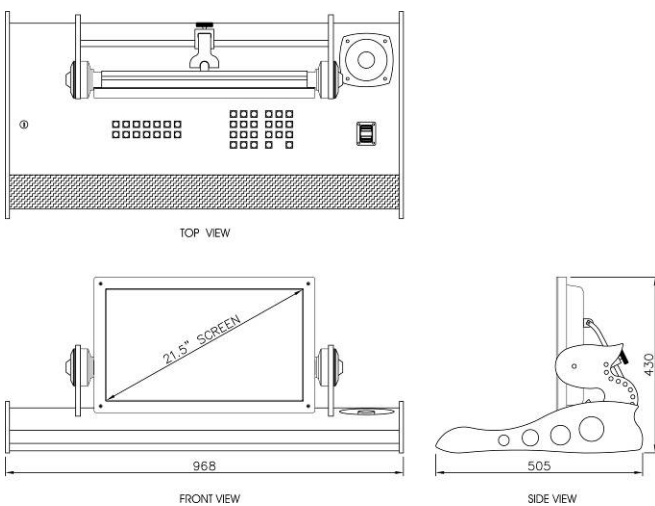
Model	HCS 280 / 280C
Weight)	26kg
Size (mm)	W / H / D 970 * 430 * 505

Ordering Information

Model No.	Ordering number
HC 100	E3A0
HCS 210	
HCS 210C	
HCS 280	
HCS 280C	
MC-TMC-1	E410
MC-PSC-2	W450

HCS -C= Console Server version

HCS 280C dimension drawing



Macostar reserves the right to change the specification without prior notice.
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Macho HCS schematic diagram

