



FUNCTIONAL. FLEXIBLE. RELIABLE.

MCC 5500 DISPATCH CONSOLE

Designed for reliable, integrated communications, the Motorola MCC 5500 Dispatch Console provides comprehensive dispatch capabilities for conventional radio systems. With integrated paging and telephony, your dispatchers can efficiently contact and manage all of the resources across your operations. A flexible and easyto-learn Graphical User Interface (GUI) gives you the ability to customize the needed look and feel specific to your operation, as well as to the unique needs of individual dispatchers.

With comprehensive diagnostics and automatic switching the MCC 5500 is a fully redundant and self-healing solution, which also includes a TDM switch with distributed architecture and a console audio box (CAB) at the operator position. The MCC 5500 Dispatch Console is a member of the Motorola integrated control room solutions family, providing you with a comprehensive and coordinated approach to effective communications and resource management.

DISPATCH CONSOLE OPERATOR POSITION

Serving as the interface between the dispatcher and the console system, each dispatch console operator position consists of PC, dispatch application software, console audio box (CAB) console electronic shelf (CES) and operator accessories. For ease of use, operations are controlled via a mouse and/or a touch screen monitor, allowing dispatchers to quickly communicate with field units and telephone callers. Dispatchers can also control and monitor multiple radio channels, patch channels together and send pages, consolidating their activities and making your operations safer and more efficient.

MULTIPLE SYSTEM SUPPORT

- Stat-Alert[™]
- ASTRO[®], ASTRO 25
- Wireless interface for other systems
- iDEN (RALP)

DISPATCH APPLICATION SOFTWARE

With an intuitive, easy-to-use GUI, the MCC 5500 utilizes the industry standard PC platform of Microsoft[®] Windows[®] Vista or Windows 7 operating systems. Our highly flexible GUI is specifically designed for fast-paced, mission critical environments with intuitive icons, pulldown menus and drag-and-drop functionality. This single application controls and centralizes your radio, telephone and paging operations for efficient workflows. Take advantage of the extensive tailoring options to meet both your operational and individual dispatcher needs, making communications simple and intuitive.

CONSOLE AUDIO BOX (CAB)

As the connection point for operator accessories, the CAB provides the interface between the MCC 5500 Dispatch Console PC position and the console electronics shelf (CES). One CAB is required for each console PC position.

CONSOLE ELECTRONICS SHELF (CES)

For complete integration of communications between console operators, radio channels, voice recorders and any other external devices connected to the console, the CES consists of a console processor (COP) module to manage communications, and digital audio processor (DAP) modules to interface external analog circuits.

ADVANCED MANAGEMENT TOOLS

With our comprehensive system information toolkit, you'll improve analysis and oversight of each operator

position. System events are logged continuously so you can extract important data such as average call duration, the number of times a channel is keyed up and call rates by operator or channel. We provide the diagnostics, reports and statistical data you need to make impactful operational decisions.

CONSOLE SYSTEM DATABASE MANAGER (CSDM)

Installed on a dedicated PC running Windows Vista or Windows 7 operating systems, the CSDM terminal is a powerful configuration and maintenance tool required for every customer site and is used to:

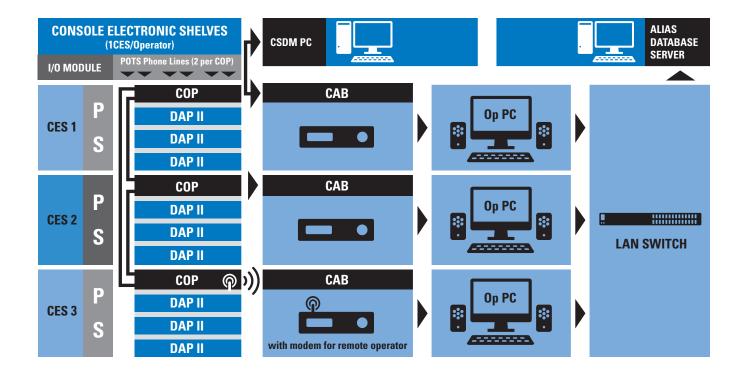
- Configure an MCC 5500 Dispatch Console system
- Access the configuration database
- Upgrade software
- Monitor the system
- Troubleshoot console problems

OPTIONAL ALIAS DATABASE MANAGER (ADM)

Further enhance your communications operations with the simple aliasing of radio unit IDs, status members and message numbers. The ADM program provides centralized server-based access to Caller ID aliases and is installed on a dedicated IP networked server running Windows[®] Server 2008 R2. (The ADM is an optional component and is not included in all architectures).

MULTIPLE PAGING FORMATS SUPPORTED INCLUDING:

- 2-Tone
- Quick Call I and II[™]
- DTMF
- 5/6-Tone
- Custom Formats



PRODUCT SPEC SHEET

MCC 5500 DISPATCH CONSOLE

Dimensions (H x W x D)	CAB 2.75 in x 16.75 in x 13 in (70 mm x 425 mm x 330 mm) [+4 in (100 mm) for cabling] CES 7 in x 17 in x 16 in (175 mm x 430 mm x 405 mm) [+4 in (100 mm) for cabling]	Tone Control	Function tone in the 200 to 3400 Hz range Frequency adjustable in 0.1 Hz increments Total tone duration adjustable from 0 to 60,000 ms in 1 ms increments Guard tone configurable for 2100 Hz, 2175 Hz, 2300 Hz, or 2325 Hz.
	I/O Shelf 1.75 in x 17.625 in x 8 in (44 mm x 448 mm x 200 mm)	DC Control	125 VDC Positive and negative current (0.5 to 12.5 mA increments)
Weight	[+4 in (100 mm) for cabling]		Max loop resistance including base station termination; 10K
weight	Max. 11 lbs (5 kg)	PTT Relay	Form A dry closures
	CES	i i i nelay	150 mA max, or 60 VDC max
	Max. 25 lbs (11.5 kg)		Switching power 3 watts max
	I/O Shelf Max. 7.5 lbs (3.4 kg)		Maximum distance 200 ft within
Temperature Range	CAB and Speaker 41° to 104°F (5° C to +40° C)		one building
	CES	TRANSMIT LINE OUTPUTS	
	32° to 122°F (0° C to +50° C)	Line Output	Adjustable from -60 to +11 dBm
	I/O Shelf 32° to 122°F (0° C to +50° C)	Output Impedance	600 ohms
Humidity	95% at 122°F (50°C) (non-condensing)	RECEIVER LINE INPUTS	
Control Type	32-bit Microprocessor	Receiver Sensitivity	Adjustable from –60 to +11 dBm
Audio Switch Type	Time Division Multiplexing (TDM)	Call Light Sensitivity	Adjustable from –5 to –32 dBm,
Voice Digitization	64 Kb µLAW PCM		relative to receive sensitivity
Electrostatic Discharge Immunity	15KV on all exposed operator control areas	Line Balance Input Impedance	60 dB @ 1004 Hz 600 ohms
	At 14KV operation is not disturbed	OTHER AUDIO PORTS	
	At 15KV no permanent failures	Recorder Port (per channel)	Output consist of summed transmit/
ine Protection	Fast-acting solid-state surge protection		receive audio of the channel with a high level guard tone (HLGT) filter.
Memory Protection	Settings preserved in non-volatile memory		Output level is programmable from -60 to 11 dB into 600 ohms
Cable Lengths	CAB to CES: 50 ft, 100 ft, up to 4000 ft	Recorder Port (per console)	Output consists of different sources (select, unselect, telephone, call
	CAB to PC (USB Cable, A/B connectors) 3 m (max) CSDM Computer Cable: 25 ft		director, and monitor speaker) and transmit audio of the operator. Fixed nominal output is –10 dBm, into
			600 ohms
END-TO-END SPECIFICATION		Aux./Paging Input	Adjustable from –60 to +11 dBm, balanced 600-ohm input
Frequency Response	300 to 3400 Hz +1		balanced 000-onin input
	 –3dB @ less than 2% distortion; expect attenuation of generated 	AUDIO CONTROLS	
Loss and Mallan	tones that are outside this range.	Individual Volume	34 dB range in 15 discrete steps
Hum and Noise Cross Talk	65 dB below rated output at any Less than –65 dB at 0 dB transmit		Muting configurable for –24 dB or full mute
sietes idin	level	All Mute	24 dB below current setting or full
Level Control	Digital AGC (Automatic Gain Control)		muting of unselected channels with timer programmable from 1 to 120
	Gain adjustment performed through Digital Signal Processors (DSPs)		seconds or for infinite duration
	Gain will not increase in the presence of noise or absence of voice	STATUS OUTPUTS AND IMPUTS - Shelf)	- GENERAL I/O MODULE (I/O
	Constant output (less than 3 dB change) all voice input levels over	Auxiliary Outputs	Form C dry closures
	rated range:		1 A max. at 24 VDC
	Microphone: -60 to -22 dBm Receive line: -60 to +11 dBm		Switching power 30 watts max
			Maximum distance 200 ft within one building
BASE STATION CONTROLS		Auxiliary Inputs	Opto-coupled inputs
Channel Control	Each channel can be separately		High impedance
	configured for E&M, Tone, DC, ASTRO® DIU, or IDEN (RALP) control. Four types of mobiles are supported: CDM1550 LS+ [™] , Consolette W9, MCS 2000 III, Consolette W9 or		0.5 to 12 mA input current Maximum distance 200 ft within one building
	Consolette W7 (Note: W7 via the ASTR0® DIU (ACIM) protocol), and two types of iDEN radios are supported as control stations: i325 and i365IS.		

PRODUCT SPEC SHEET

MCC 5500 DISPATCH CONSOLE

AC Input Voltage	90-260 VAC, 1.1 A max.	
Input Frequency	50/60 Hz, ±3 Hz	
Power Output	50 W max.	
DC Outputs	+ 12 VDC @ 4.2 A	
Agency Approvals	UL (Underwriters Laboratories)	
	CSA (Canadian Standards Association)	
	CE Mark (Conformité Européene)	
POWER SUPPLY (CES) SPE	CIFICATIONS	
AC Input Voltage	120/240 VAC	
	9 A @ 115 VAC; 4.5@ 230 VAC	
Input Frequency	50/60 Hz, ±3 Hz	
Power Output	300 W max.	
Agency Approvals	UL (Underwriters Laboratories)	
	CSA (Canadian Standards Association)	
	CE Mark (Conformité Européene)	
POWER SUPPLY (I/O SHELF) SPECIFICATIONS	
AC Input Voltage	120/240 VAC, 0.5 A max.	
Input Frequency	50/60 Hz, ±3 Hz	
Power Output	30 W max.	
DC Outputs	+5 VDC, 2.6 A max.	
Agency Approvals	UL (Underwriters Laboratories)	
	CSA (Canadian Standards Association)	
	CE Mark (Conformité Européene)	
REGULATORY CERTIFICATI	DNS	
Safety	IEC60950 1:2001	
	EN 60950-1: 2001 First Edition	
EMC Emissions & Immunity	EN 55022: 1998 + A1:2001, A2:2002	
	EN 55024: 1998 + A1:2001, A2:2003	
	EN 61000-4-2	
	EN 61000-4-3	
	EN 61000-4-4	
	EN 61000-4-5	
	EN 61000-4-6	
	EN 6100-4-11	
	EN 61000-3-2:2000	
	EN 61000-3-3:1995 + A1:2001	
European Council Directives	Provisions of the normatives: EMC Directive 89/336/EEC (including amendments)	
	Low Voltage Directive 73/23/EEC (amended by 93/68/EEC)	

MCC SERIES ACCESSORIES SPECIFICATIONS

Dimensions (H x W x D)

Weight

Power Input

Thermal Output

Speaker Without bracket: 4.9 in x 4 in x 3.5 in (124 mm x 102 mm x 89 mm) With bracket: 4.9 in x 4 in x 5.8 in (124 mm x 102 mm x 146 mm)

Headset Jack 1.6 in x 5 in x 6 in (41 mm x 127 mm x 152 mm)

Microphone Gooseneck at 90°: 4.5 in x 4.8 in x 6.6 in (114 mm x 121 mm x 168 mm) Gooseneck at 180°: 21.8 in x 4.8 in x 6.6 in (552 mm x 121 mm x 168 mm)

Speaker 9.7 lbs (0.3 kg)

Headset Jack

1.2 lbs (0.5g)

Microphone 24 lbs (1.1 kg)

Speaker Add 0.05 Amps per speaker to CAB power Input at 120 VAC

Headset Jack Negligible

Microphone Negligible **Speaker** 15 BTU/Hr (maximum), 8 BTU/Hr (typical)

Headset Jack Negligible

Microphone Negligible

MCC 5500 DISPATCH CONSOLE CAPACITIES

Operator Positions	Up to 36 operator positions per console system
Channel Capacity	Up to 128 radio channels (sharable)
Central Office (CO) Lines	Up to 2 CO lines per dispatch console position
	Up to 72 CO lines per console system
Multi-Select Groups	Up to 10 Multi-Select groups per dispatch console (with up to 16 radio channel resources per Multi-Select)
Patch Groups	Up to 10 Patch groups per dispatch console (with up to 16 radio channel resources per Patch)
Paging Buttons	Up to 512 Paging buttons (with up to 50 single pages in a group)
General I/O functions	Up to 512 general I/O functions
Speed Dial Aliases	Up to 10,000 Speed Dial Aliases per console

Specifications subject to change without notice. All specifications shown are typical. Dispatch console meets applicable regulatory requirements.

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TTE Directive 1999/5/EEC

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