

- *Allows multiple dispatch operators to work in remote areas of a building not reached by radio signals.*
- *Permits each easy-to-use desktop unit to access the complete range of Orion™, Jaguar™ 725M, or M7100<sup>IP</sup> mobile features.*
- *Supports specialized applications with custom programming software, movable keycaps, and optional accessories.*
- *Provides easy and inexpensive installation with standard in-building wiring.*



## Product Overview

The DDC-100 is designed for users who need to remotely control an Orion\*, Jaguar 725M\*, or M7100<sup>IP</sup> Desktop Station and access more of its features than is possible with standard Tone or DC remotes. The Light-emitting Diode (LED) equipped keypad and Liquid Crystal Display (LCD) of the DDC-100 allow access to most of the features of the desktop station.

Up to 25 remotes may be located up to 2,000 feet away from the radio. Flexible network topologies (ring, star, or “T” configuration) and use of in-building 3-twisted-pair wiring makes installation easy and inexpensive. The small footprint, internally mounted termination panel, and telephone-like ergonomics of the DDC-100 make it ideal for office environments.

### Features Users Desire

Essential features typically required in desktop radio controllers are included at no additional cost with the DDC-100. A controller can be configured as a Supervisory unit with special control over the other controllers on the network. A Supervisory unit may enter Takeover Mode,

allowing the unit to pre-empt other desktop controllers on the network.

Privacy Mode allows a particular desktop remote to mute all other remotes on the network (except the Supervisory unit) to allow the operator to converse over the radio without the others listening.

The Intercom feature allows a dispatch operator to converse with other operators on the network without using the radio.

Parallel Status updates on the LCD duplicate the Control Unit display; show the current mode of operation for the radio; present which System, GID, or LID has been selected; and indicate when the radio is in use by another operator.

### Clear Communication

Superior audio features make the DDC-100 easy for operators to use. Automatic Gain Control (AGC) circuitry compensates for the distance between desktop controllers and the radio so that the volume levels remain at their optimum settings throughout the network.

The Voice-Operated Switch (VOX) prevents any annoying line hum present from being heard by the operator. The

integrated speaker, microphone, and handset are included as standard equipment with every desktop controller so that each operator may choose between “speakerphone” operation and private conversation.

### Options and Accessories

Transparent keycaps with movable labels, when used with PC programming software, allow full customization of the keypad for special applications. Options such as the Push-to-Talk (PTT) footswitch, headset, and desktop microphone support dispatch operators in a wide variety of environments.

### For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

\*Note that the Orion and Jaguar 725M are not compatible with P25<sup>IP</sup> systems.

## General Specifications

### DDC-100 System:

#### Radio Type:

M/A-COM Orion, Jaguar 725M, or  
M7100<sup>IP</sup> Mobiles with Desktop Station

#### Maximum Number of Desktop

#### Controllers:

25

#### Line Lengths:

2000 ft from radio interface to desktop  
controllers

#### Connection:

#### Configuration:

T, Star, Multi-drop

#### Wire Type:

Twisted pairs down to 24  
gauge

#### Number of Conductors:

6 (3 twisted pairs)

#### Setup:

No adjustments required

### Desktop Controller:

#### Power:

12 VDC @ 300 mA, or optional 120  
VAC or 230 VAC wall transformers

#### Temperature:

32 to 140°F (0 to 60°C)

#### Controls:

System and Group Up and Down, Scan,  
Scan Add/Delete, Volume, 16-key  
keypad, Intercom, Privacy, Mute, TX

#### Indicators:

LCD for radio status and prompts.  
LEDs for Intercom, Privacy, Mute, TX,  
Busy, In Use, Scan, 16-key keypad

#### Status Tones:

Passes all progress tones from the radio

#### Audio Interface:

Internal microphone for use with  
intercom and front panel transmit.  
Handset for added privacy. Connections  
for external interface (microphone,  
speaker and PTT). Handset may be  
replaced by a headset.

#### Connections:

6-conductor modular cable-to-radio  
interface.

### Radio Interface:

#### Power:

12 VDC @ 300 mA

#### Temperature:

32 to 140°F (0 to 60°C)

#### Indicators:

LEDs indicating TX and RX activity on  
radio and desktop controller lines and  
power LED

#### Connections:

DB37 cable to radio, 6-conductor  
modular cable to desktop controllers

#### Programming Kit:

Reconfigures desktop controller keypads  
and sets the following system  
parameters: enables clock, Privacy  
Mode, and Intercom; and sets the timer  
for TX timeout. Includes 12-foot cable,  
RS232 adapter, and 3-1/2-inch disk

### Certifications:

The system is designed for FCC Part 15  
certification