

1 Programming the CM9760-MDA

The CM9760-MDA is programmed in two different ways.

1.1 Keyboard to CM9760-MDA

The protocol between the CM9760-KBD and the CM9760-MDA, makes use of the CM9760 keyboard and the programming monitor output.

To program the unit using the CM9760 keyboard, the user first places the CM9760 keyboard into direct camera control mode using the Pelco protocol. Any joystick motion activates the main menu. Use the joystick to navigate menus. Use the iris open and iris close keys to change selections. Change certain selections by moving the joystick left or right. Move the joystick right to select submenus. Use the focus near key to return to the main menu from any sub menu.

Command Name	Command bytes	Description
Left	A0 XX 00 04 XX XX AF CRC	Move cursor left
Right	A0 XX 00 02 XX XX AF CRC	Move cursor right
Up	A0 XX 00 08 XX XX AF CRC	Move cursor up
Down	A0 XX 00 10 XX XX AF CRC	Move cursor down
Open	A0 XX 04 00 XX XX AF CRC	Increment selection
Close	A0 XX 08 00 XX XX AF CRC	Decrement selection
Near	A0 XX 02 00 XX XX AF CRC	Go to main menu

The command bytes are in hexadecimal. These message bytes come from the Intercept/9750 protocol. Bytes listed as XX are ignored. The CRC byte is an exclusive-or checksum of all preceding bytes.

1.2 MDA SETUP to CM9760-MDA

The protocol between the PC MDA SETUP package and the CM9760-MDA, makes use of the MDA SETUP windows application.

This second method used to program the distribution amplifier is via the MDA SETUP windows program. This program makes use of a subset of the ASCII protocol. Commands used by the MDA SETUP follow.

¹\$Header: d:/protocol/p/RCS/mdaproto.tex,v 1.1 2000-12-29 09:11:58-08 Hamilton Exp Hamilton \$

²\$Header: d:/protocol/p/RCS/mdaproto.inc,v 1.1 2000-12-29 09:21:31-08 Hamilton Exp Hamilton \$

Command Name	Command bytes	Description
Cable compensation	0..3ca	Set cable compensation
Brightness	0..7ha	Set character brightness
Soft reset	10359ra	System soft reset
Set character position	0..36wya	Set vertical character position
Set character position	0..12wxa	Set horizontal character position
Enable character display	0,1ya	Turn characters on or off
Set port configuration	Xa	Set serial port parameters
Set time date	Za_mm/dd/yy/hh:mm:ssa	Set time and date
Set date style	1Za0..3	Set Date Style
Set hour mode	2Za0,1	Set Hour Style
Set camera titles	Ya_camera title/- camera title/- camera title... !	Program camera titles
Select camera	0..16#a	Select unit camera
Select unit	0..8 a	Select mda unit
Query cable compensation	?ha	Get cable compensation value
Query brightness	?ha	Get character brightness
Query enable display	?ya	Get character on/off state
Query date style	?1Za	Get date style
Query hour mode	?2Za	Get hour mode
Query horizontal position	?wxa	Get horizontal character offset
Query vertical position	?wya	Get vertical character offset
Ack	AKa	Message acknowledgment
Negative Ack	NAa	Message negative acknowledgment